

Mahajana Education Society(R)

## **SBRR Mahajana First Grade College, Post Graduate Wing**

(Autonomous)

Affiliated to University of Mysore

Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence

**Pooja Bhagavat Memorial Mahajana Education Centre**

KRS Road, Metagalli, Mysuru – 570016, Karnataka, India.



Department of Studies in Computer Science

## **Master of Computer Application**

### **MANDATORY DISCLOSURES**

## Table of Contents:

|    |   |    |
|----|---|----|
| 1  | Name of the Institution: SBRR Mahajana First Grade College, PG Wing | 4  |
| 2  | Name and Address of the Trust / Society and the Trustees            | 4  |
|    | • Trustee Details   | 4  |
| 3  | Name and Address of the Director                                    | 5  |
| 4  | Name of the affiliating University: University of Mysore            | 5  |
| 5  | Governance  | 6  |
|    | • Governing Council   | 6  |
|    | • Academic Council  | 6  |
|    | • Frequency of the Board Meeting and Academic Advisory Body         | 8  |
|    | • Organisational Chart  | 9  |
|    | • Grievance Redressal Committee                                     | 10 |
|    | • Anti-Ragging Committee  | 11 |
|    | • Anti-Ragging Squad  | 12 |
|    | • Internal Complaint Committee (ICC)                                | 13 |
|    | • Committee for SC/ST   | 14 |
|    | • Internal Quality Assurance Cell                                   | 15 |
|    | • Student Counsellor Committee                                      | 16 |
| 6  | Programmes  | 17 |
|    | • Programmes approved by AICTE :                                    | 17 |
| 7  | Faculty   | 18 |
| 8  | Profile of Director / Faculty                                       | 19 |
|    | • Profile of the Director   | 19 |
|    | • Profile of Faculty  | 20 |
| 9  | Fee:  | 44 |
| 10 | Admission   | 39 |
| 11 | Admission Procedure:  | 45 |
|    | • Admission Test being followed                                     | 45 |
|    | • Number of Seats Allotted  | 45 |
|    | • Calendar for admission against Management/vacant seats:           | 45 |



|  |    |
|--|----|
| 12 Criteria and Weightages for Admission                               | 46 |
| 13 List of Applicants  | 49 |
| 14 Results of Admission under Management seats/Vacant seats            | 52 |
| 15 Information of Infrastructure and Other Resources Available         | 54 |
| • Occupancy Certificate  | 55 |
| • Fire and Safety Certificate  | 56 |
| • Library  | 57 |
| • Laboratory and Workshop  | 57 |
| • Computing Facilities   | 57 |
| • Innovation Cell  | 57 |
| • Games and Sports Facilities  | 59 |
| • Teaching Learning Process  | 59 |
| • Academic Calendar  | 60 |
| • Academic Time Table  | 61 |
| 16 Enrolment and Placement details of Students in the last 5 years     | 62 |
| 17 List of Research Projects / Consultancy Works/ MoUs with Industries | 63 |
| 18 LoA and subsequent EoA till the current Academic Year               | 66 |
| 19 Accounted audited statement for the last three years                | 66 |
| 20 Appendix 1 : Course Structure and Syllabi for MCA Programme         | 67 |
| 21 Appendix 2 : LoA and subsequent EoA till the current Academic Year  | 68 |
| 22 Appendix 3 : Accounted audited statement for the last three years   | 69 |

## 1 Name of the Institution: SBRR Mahajana First Grade College, PG Wing

**Address :** Metagalli, KRS Road, Mysuru, Karnataka, India.  
**E-Mail :** info.pgc@mahajana.edu.in  
**Telephone:** +91 821 4009600  
**Mobile:** +91 7483537144

## 2 Name and Address of the Trust / Society and the Trustees

**Name :** Mahajana Education Society(R)  
**Address :** Jayalakshmipuram , Mysore, Karnataka  
**E-Mail :** info@mahajana.edu.in  
**Telephone:** +91 821 241 4670, +91 821 251 1921

### • Trustee Details

| Name   | Designation | Mobile Number | Email                             |
|--|-------------|---------------|-----------------------------------|
| SRI. VIJAYKUMAR N<br>Jayalakshmipuram ,<br>Mysore, Karnataka                 | Member      | 8212512886    | mes@mahajana.edu.in               |
| Sri. T MURALIDHAR<br>BHAGAVAT<br>Jayalakshmipuram ,<br>Mysore, Karnataka     | President   | 9880244444    | tmbmgm@gmail.com                  |
| Sri. ASHWATH NARAYAN<br>G.R<br>Jayalakshmipuram ,<br>Mysore, Karnataka       | Member      | 9448031971    | rajeshnaryan22@gmail.c<br>om      |
| SRI P R NAGASRINIVASA<br>Jayalakshmipuram ,<br>Mysore, Karnataka             | Member      | 9483299432    | prnagasrinivasa1942@gm<br>ail.com |
| SRI GOVINDARAJU S<br>Jayalakshmipuram ,<br>Mysore, Karnataka                 | Member      | 9886444404    | mfigovindaraj@gmail.co<br>m       |
| Dr T VIJAYA LAKSHMI<br>MURALIDHAR<br>Jayalakshmipuram ,<br>Mysore, Karnataka | Secretary   | 9880294444    | tvm.mgm@gmail.com                 |
| SRI RAVIKUMAR B S<br>Jayalakshmipuram ,<br>Mysore, Karnataka                 | Member      | 9900233125    | ravikumar.bs@gmail.com            |
| SRI. SRINATH K B<br>Jayalakshmipuram ,<br>Mysore, Karnataka                  | Member      | 9880204444    | mflsrinath@gmail.com              |

| <b>Name</b>  | <b>Designation</b> | <b>Mobile Number</b> | <b>Email</b>                           |
|--|--------------------|----------------------|--|
| SRI. SANJAY SK<br>Jayalakshmipuram ,<br>Mysore, Karnataka        | Member             | 9945159216           | casksanjay@gmail.com                   |
| SRI. R RAJESH<br>Jayalakshmipuram ,<br>Mysore, Karnataka         | Member             | 9448229994           | rajesh@bsra.in                         |
| SRI. HARISH B<br>Jayalakshmipuram ,<br>Mysore, Karnataka         | Member             | 9845561999           | harish@ventronics.net                  |
| SRI. PRATAP R N<br>Jayalakshmipuram ,<br>Mysore, Karnataka       | Member             | 9845124105           | pratthalli@gmail.com                   |
| SRI. K B RAMA PRAKASH<br>Jayalakshmipuram ,<br>Mysore, Karnataka | Member             | 9900148022           | kattepuracpmpraprakash<br>a9@gmail.com |
| DR. TARANATH N S<br>Jayalakshmipuram ,<br>Mysore, Karnataka      | Member             | 8212344716           | nstharaantha@gmail.com                 |

### **3 Name and Address of the Director**

**Name :** Dr.C.K.Renukarya  
**Address :** Metagalli, KRS Road, Mysore Karnataka, India.  
**E-Mail :** ckrenukarya@gmail.com  
**Telephone :** +91-821-4009600

### **4 Name of the affiliating University : University of Mysore**

## 5 Governance

### • Governing Council

|                                |                |
|--------------------------------|----------------|
| ○ Sri. T. Muralidhar Bhagavat, | PRESIDENT      |
| ○ Sri B. S. Ravikumar,         | VICE PRESIDENT |
| ○ Dr. Vijayalakshmi Bhagavat,  | HON. SECRETARY |
| ○ Sri. N. Vijaya Kumar,        | TREASURER      |
| ○ Dr. P. R. Naga Srinivasa,    | MEMBER         |
| ○ Sri G. R. Ashwatha Narayan,  | MEMBER         |
| ○ Sri B. Harish,               | MEMBER         |
| ○ Sri. R.N Pratap,             | MEMBER         |
| ○ Sri. K. B. Srinath,          | MEMBER         |
| ○ Sri. S. Govindaraj,          | MEMBER         |

### • Academic Council

| Sl. No. | Category                     | Name                     | Designation  | Address for Communication  |
|---------|------------------------------|--------------------------|--|--|
| 1       | Principal                    | Dr. B. R. Jayakumari     | Principal  | SBRR Mahajana First Grade College<br>Jayalakshmipuram, Mysore-570012                             |
| 2       | All Heads of the Departments |                          |  |  |
| 3       | Teachers of the College      | 1. Dr. Sreedhara H       | HoD, Dept. of History                                  | SBRR Mahajana First Grade College (A),<br>Jayalakshmipuram, Mysuru-570012                        |
|         |                              | 2. Dr. Thimmegowda H R   | Associate Professor,<br>Dept. of Kannada               | SBRR Mahajana First Grade College<br>Jayalakshmipuram, Mysuru-570012                             |
|         |                              | 3. Dr. Harish R          | Assistant Professor,<br>Dept. of Microbiology          | SBRR MFGC (A), Pooja Bhagavat Memorial Mahajana Education Centre,<br>KRS Road, Metagalli, Mysuru |
|         |                              | 4. Sri Basanth Kumar H B | Assistant Professor,<br>Department of Computer Science | SBRR MFGC (A), Pooja Bhagavat Memorial Mahajana Education Centre,<br>KRS Road, Metagalli, Mysuru |

| Sl. No. | Category                                  | Name                  | Designation   | Address for Communication   |
|---------|---|-----------------------|---|---|
| 4       | Expert from other areas                   | Dr. Balasubramanian A | Former Prof. Dept. of Earth Science, Manasagangothri, Mysuru                          | University of Mysore Mysuru   |
|         |   | Dr. Yashawanth Dongre | Vice Chancellor – Chanakya University and Former Prof. of Commerce Director PMEB, UoM | University of Mysore Mysuru   |
|         |   | Dr. Ravi Kumar C N    | Former Principal MYCEM college Mysuru   | Mysore College of Engineering and Management, No. 1072, T.N.Road, Chikkahalli, Mysuru - 570028. |
|         |   | Mr. Abhilash Nair     | Managing Director   | Zeus Biotech Pvt. Ltd. Mysuru   |
| 5       | Nominees from the University              | Prof. Sridhar M A     | DoS in Physics, Manasagangothri   | University of Mysore Mysuru   |
|         |   | Prof. Mahesh R        | DoS in Business Management & Administration, Manasagangothri                          | University of Mysore Mysuru   |
|         |   | Dr. Biradar B S       | Dept. of Studies in Statistics, Manasagangothri                                       | University of Mysore Mysuru   |
| 6       | Faculty Member nominated by the Principal | Dr. Renukarya C K     | Director PG Wing of SBRR MFGC(A)  | SBRR MFGC (A), Pooja Bhagavat Memorial Mahajana Education Centre, KRS Road, Metagalli, Mysuru   |
|         |   | Dr. Ramesh S R        | C.E.O. SBRR Mahajana First Grade College (A)  | SBRR Mahajana First Grade College (A), Jayalakshmi puram Mysuru                                 |
|         |   | Ms. Geetha D          | Assistant Professor in English  | SBRR Mahajana First Grade College (A), Jayalakshmi puram Mysuru                                 |

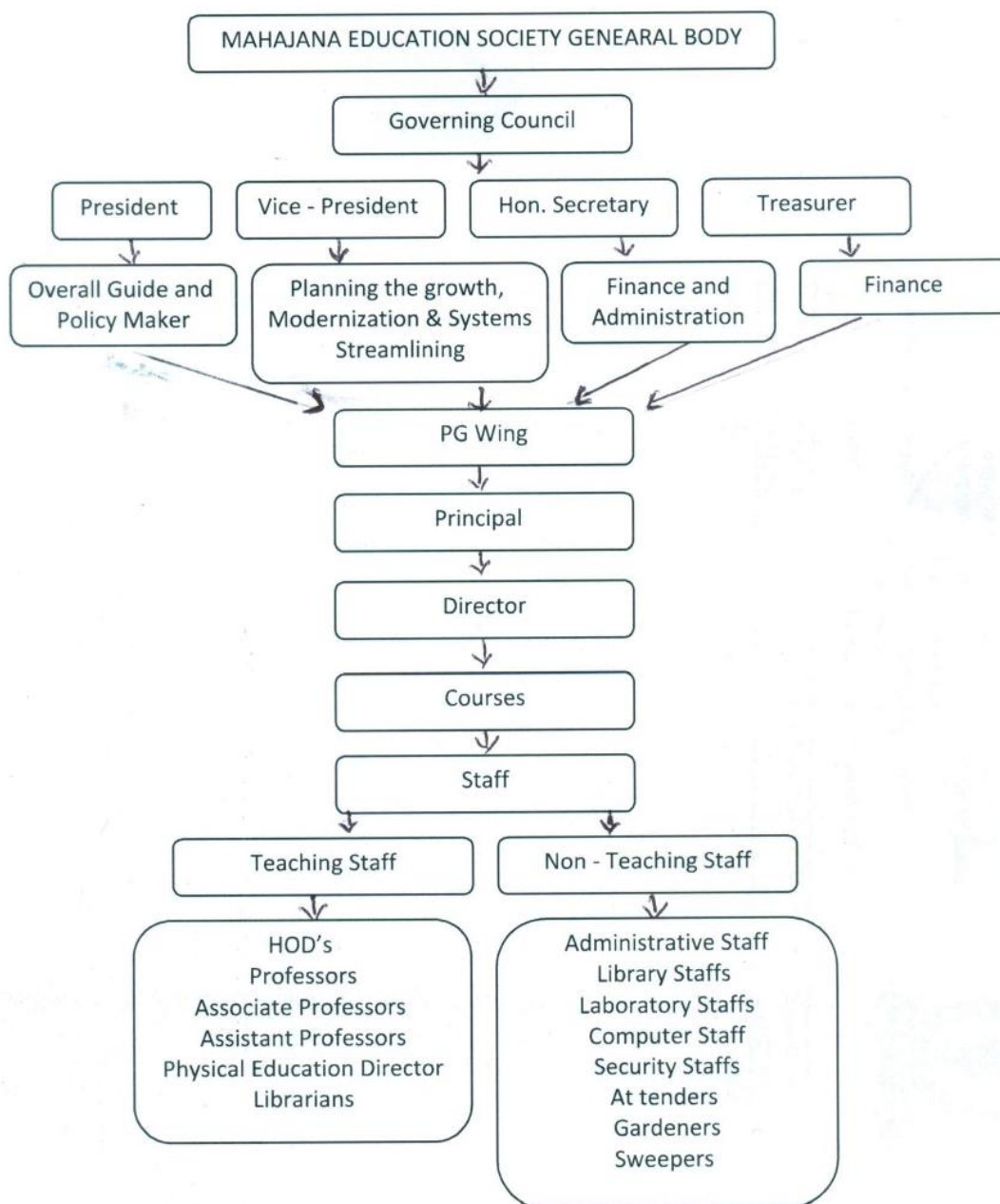
• **Frequency of the Board Meeting and Academic Advisory Body**

- Twice a year


- **Organisational Chart**

## SBBR Mahajana F.G.College. Post graduate Wing

### ORGANIZATIONAL CHART



• Grievance Redressal Committee



Mahajana Education Society (Regd.)  
**SBRR Mahajana First Grade College (Autonomous)**  
 Affiliated to University of Mysore  
 Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence  
**Post Graduate Wing**  
**Pooja Bhagavat Memorial Mahajana Education Centre**  
 KRS Road, Metagalli, Mysore - 570 016, Karnataka

---

**Dr. B R Jayakumari, M.A., M.Phil., Ph.D,**  
Principal

**Dr. C.K. Renukary**  
Director, Post Graduate Wing

---

Ref: pgc/025-A/2023-24 Date: 03-04-23

**GRIEVANCE REDRESSAL COMMITTEE (GRC)**

The following is the revised composition of '**GRIEVANCE REDRESSAL COMMITTEE (GRC)**' of SBRR Mahajana First Grade College, PG Wing, Pooja Bhagavat Memorial Mahajana Education Centre, K.R.S. Road, Metagalli, Mysore-16, with effect from 03rd April 2023 until further orders in this regard.

| Sl. No. | Name                  | Designation   | Position in the Committee      | Contact No. |
|---------|-----------------------|---|--------------------------------|-------------|
| 1       | Dr. C K Renukary      | Director,<br>PG wing of SBRR Mahajana FG college, Mysuru  | Convener                       | 9845460047  |
| 2       | Ms. Dhanalakshmi      | Associate Professor,<br>MBA Department,<br>PG wing of SBRR Mahajana FG college, Mysuru              | Member                         | 9480057441  |
| 3       | Mr. Srinivas K.R.     | Assistant Professor,<br>Commerce Department,<br>PG wing of SBRR Mahajana FG college, Mysuru         | Member                         | 9741995677  |
| 4       | Mr. Basanth Kumar H B | Assistant Professor,<br>Computer Science Department,<br>PG wing of SBRR Mahajana FG college, Mysuru | Member                         | 9611882250  |
| 5       | Mr. Manoj M           | Student, MCA Department,<br>PG wing of SBRR Mahajana FG college, Mysuru                             | Member- Student representative | 8147133309  |

VIJAYALAKSHMI  
MURALIDHAR

Digitally signed by  
VIJAYALAKSHMI  
MURALIDHAR  
Date: 2023.04.25  
15:34:17 +05'30'

*Renukary*  
**DIRECTOR**  
**SBRR MAHAJANA F.G. COLLEGE**  
 (Autonomous)  
**POST GRADUATE WING**  
**PBM MAHAJANA EDN. CENTRE**  
 KRS Rd., Metagalli, MYS-570016

Office : 0821-4009600 Web: [www.pgc.mahajana.edu.in](http://www.pgc.mahajana.edu.in)



• Anti-Ragging Committee



Mahajana Education Society (Regd.)  
**SBRR Mahajana First Grade College (Autonomous)**

Affiliated to University of Mysore  
Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence

**Post Graduate Wing**  
**Pooja Bhagavat Memorial Mahajana Education Centre**  
KRS Road, Metagalli, Mysore - 570 016, Karnataka

**Dr. B R Jayakumari**, M.A., M.Phil., Ph.D.  
Principal

**Dr. C.K. Renukary**  
Director, Post Graduate Wing

Ref: *pgc/023/2023-24*

Date: *03-04-2023*

**ANTI-RAGGING COMMITTEE**


The following is the revised composition of "Anti-Ragging Committee" of SBRR Mahajana First Grade College, PG Wing, K.R.S. Road, Metagalli, Mysore-16, with effect from 03 **April 2023** until further orders in this regard.

| Sl. No. | Name                                      | Designation  | Position in the Committee      | Contact No.                |
|---------|---|--|--------------------------------|----------------------------|
| 1       | Dr. C. K. Renukary                        | Director, SBRR Mahajana FG college, PG Wing, Mysuru  | Chairman                       | 9845460047                 |
| 2       | Sri Vinay                                 | Police Inspector, Metagalli, Mysuru  | Member-Police representative   | 9480802239, 0821- 2418115  |
| 3       | Sri S.T. Ravi Kumar                       | Reporter, Star of Mysore, Mysuru   | Member-Media representative    | 9845315697, 0821 249 6520  |
| 4       | Sri Stanly K V                            | Director, Odanadi Seva Samsthe, Mysuru   | Member-NGO representative      | 0821-2402155, 0821-2403664 |
| 5       | Mr. D. N. Prakash (Parent of Aishwarya P) | Parvathamma Hotel, Durgigudi Main Road, Opposite to Mallikarjuna Theater, Shivmogga-577201 | Member-Parent representative   | 9483307365                 |
| 6       | Dr. Sangamitra Goutham M. J.              | Assistant Professor, MBA Department, SBRR Mahajana FG college, PG Wing, Mysuru             | Member                         | 9731165052                 |
| 7       | Mrs. Sulochana M.S.                       | Superintendent - II SBRR Mahajana FG college, PG Wing, Mysuru                              | Member                         | 8105369115                 |
| 8       | Mr. Shreyas V.                            | Student, MBA Department, SBRR Mahajana FG college, PG Wing, Mysuru                         | Member -Student representative | 9731721690                 |
| 9       | Ms. Aishwarya P.                          | Student, MCA Department, SBRR Mahajana FG college, PG Wing, Mysuru                         | Member -Student representative | 8088366581                 |
| 10      | Mr. Manoj Kumar N.S.                      | Student, MCA Department, SBRR Mahajana FG college, PG Wing, Mysuru                         | Member -Student representative | 8073882145                 |

*[Signature]*  
**1/c DIRECTOR**  
**SBRR MAHAJANA F.G. COLLEGE**  
**(Autonomous)**  
**POST GRADUATE WING**  
**PBM MAHAJANA EDN. CENTRE**  
**KRS Rd., Metagalli, MYS-570016**



- **Anti-Ragging Squad**



Mahajana Education Society (Regd.)  
**SBRR Mahajana First Grade College (Autonomous)**  
 Affiliated to University of Mysore  
 Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence  
**Post Graduate Wing**  
**Pooja Bhagavat Memorial Mahajana Education Centre**  
 KRS Road, Metagalli. Mysore - 570 016. Karnataka

---

**Dr. B R Jayakumari, M.A., M.Phil., Ph.D.**  
Principal

**Dr. C.K. Renukarya**  
Director, Post Graduate Wing

---

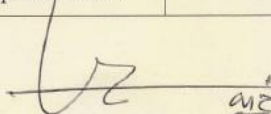
Ref: pgc/023/2023-24


**ANTI - RAGGING SQUAD**

Date: 3-4-23

The following is the revised composition of “**Anti-Ragging Squad**” of SBRR Mahajana First Grade College, PG Wing, K.R.S. Road, Metagalli, Mysore-16, with effect from **03 April 2023** until further orders in this regard.


| Sl. No. | Name                   | Designation   | Position in the Committee      | Contact No. |
|---------|------------------------|---|--------------------------------|-------------|
| 1       | Mrs. Rachana C. R.     | Associate Professor and HoD, Computer Science Department, SBRR Mahajana FG college, PG Wing, Mysuru | Member                         | 9535702330  |
| 2       | Mrs. Yashaswini J.     | Assistant Professor, Computer Science Department, SBRR Mahajana FG college, PG Wing, Mysuru         | Member                         | 9538779281  |
| 3       | Dr. Aniruddha S. Rao   | Assistant Professor, MBA Department, SBRR Mahajana FG college, PG Wing, Mysuru                      | Member                         | 9535702330  |
| 4       | Mr. Srinivas Thimmaiah | Assistant Professor, MBA Dept. SBRR Mahajana FG college, PG Wing, Mysuru                            | Member                         | 9986181612  |
| 5       | Mr. Madhu Chandran B.  | Student, MCA Department, SBRR Mahajana FG college, PG Wing, Mysuru                                  | Member- Student representative | 7813984114  |

  
**DIRECTOR**  
 SBRR MAHAJANA F.G. COLLEGE  
 (Autonomous)  
 POST GRADUATE WING  
 PBM MAHAJANA EDN. CENTRE  
 KRS Rd., Metagalli, MYS-570016



Office : 0821-4009600    Web: [www.pgc.mahajana.edu.in](http://www.pgc.mahajana.edu.in)

• Internal Complaint Committee (ICC)



Mahajana Education Society (Regd.)  
**SBRR Mahajana First Grade College (Autonomous)**  
 Affiliated to University of Mysore  
 Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence  
**Post Graduate Wing**  
**Pooja Bhagavat Memorial Mahajana Education Centre**  
 KRS Road, Metagalli, Mysore - 570 016, Karnataka

---

**Dr. B R Jayakumari, M.A., M.Phil., Ph.D.**  
Principal

**Dr. C.K. Renukarya**  
Director, Post Graduate Wing

---

Ref: pgc/022/2023-24 **Internal Complaints Committee - (ICC)** Date: 3.4.23

The following is the revised composition of **"Internal Complaints Committee (ICC)"** of SBRR Mahajana First Grade College, PG Wing, K.R.S. Road, Metagalli, Mysore-16, with effect from **03 April 2023** until further orders in this regard.


| Sl.No. | Name                     | Designation   | Position in the Committee       | Contact No.                   |
|--------|--------------------------|---|---------------------------------|-------------------------------|
| 1      | Dr. Preethi M.           | Associate Professor, DoS in Business Administration SBRR Mahajana FG college, PG wing, Mysuru | Chair Person                    | 9008646243                    |
| 2      | Sri. Parashuram M. L.    | Director, Odanadi Seva Samsthe, Mysuru  | Member - NGO representative     | 0821-2402155,<br>0821-2403664 |
| 3      | Dr. Indushekara G.V.     | Assistant Professor, Social Work Department, SBRR Mahajana FG college, PG wing Mysuru         | Member                          | 9986966224                    |
| 4      | Mrs.Yashaswini J.        | Assistant Professor, Computer Science Department, SBRR Mahajana FG college, PG wing, Mysuru   | Member                          | 9538779281                    |
| 5      | Mr. Shantharam Bhatt     | Office superintendent, SBRR Mahajana FG college, PG wing, Mysuru                              | Member                          | 9449659792                    |
| 6      | Mrs. Ramamani            | F.D.A, SBRR Mahajana FG college, PG wing, Mysuru  | Member                          | 7760161209                    |
| 7      | Ms. Anusha S.            | Student, MCA Department, SBRR Mahajana FG college, PG wing, Mysuru                            | Member - Student representative | 9986833533                    |
| 8      | Ms. Keerthana K          | Student, MCA Department, SBRR Mahajana FG college, PG wing Mysuru                             | Member - Student representative | 9900497160                    |
| 9      | Mr. Mohammed Moinuddin N | Student, MBA Department, SBRR Mahajana FG college, PG wing Mysuru                             | Member - Student representative | 7795786637                    |

*[Signature]*  
**DIRECTOR**  
 SBRR MAHAJANA F.G. COLLEGE  
 (Autonomous)  
 POST GRADUATE WING  
 PBM MAHAJANA EDN. CENTRE  
 KRS Rd., Metagalli, MYS-570016

Office : 0821-4009600 Web: www.pgc.mahajana.edu.in



• Committee for SC/ST



Mahajana Education Society (Regd.)  
**SBRR Mahajana First Grade College (Autonomous)**  
 Affiliated to University of Mysore  
 Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence  
**Post Graduate Wing**  
**Pooja Bhagavat Memorial Mahajana Education Centre**  
 KRS Road, Metagalli. Mysore - 570 016, Karnataka

---

**Dr. B R Jayakumari, M.A., M.Phil., Ph.D,**  
Principal

**Dr. C.K. Renukarya**  
Director, Post Graduate Wing


---

Ref: pgc/025/2023-24 Date: 3-4-23

**SC/ST Committee**

The following is the revised composition of “**SC/ST Committee**” of SBRR Mahajana First Grade College, PG Wing, K.R.S. Road, Metagalli, Mysore-16, with effect from **03 April 2023** until further orders in this regard.

| Sl. No. | Name of the Faculty          | Designation   | Position in the Committee | Contact No. |
|---------|------------------------------|---|---------------------------|-------------|
| 1.      | Mr. Basanth Kumar H.B.       | Assistant Professor, Computer Science Department, SBRR Mahajana FG college, PG Wing, Mysuru | Member                    | 9611882250  |
| 2       | Dr. Sangamitra Goutham M. J. | Assistant Professor, MBA Department, SBRR Mahajana FG college, PG Wing, Mysuru              | Member                    | 9731165052  |
| 3.      | Dr. Bhavana V.               | Asst. Professor & HOD, Social Work Department, SBRR Mahajana FG college, PG Wing, Mysuru    | Member                    | 8095831765  |
| 4.      | Ms. Likhitha M.M.            | Asst. Professor, Computer Science Department, SBRR Mahajana FG college, PG Wing, Mysuru     | Member                    | 7022444565  |
| 5       | Mr. Roshan                   | Assistant Professor, DEPARTMENT OF COMPUTER APPLICATION SBRR Mahajana FG college, Mysuru    | Member                    | 7259245342  |

  
**DIRECTOR**  
 SBRR MAHAJANA F.G. COLLEGE  
 (Autonomous)  
 POST GRADUATE WING  
 PBM MAHAJANA EDN. CENTRE  
 KRS Rd., Metagalli, MYS-570016

Office : 0821-4009600 Web: [www.pgc.mahajana.edu.in](http://www.pgc.mahajana.edu.in)

• Internal Quality Assurance Cell

**Mahajana Education Society (M)**  
Education to Excel  
**SBRR Mahajana First Grade College (Autonomous)**

Jayalakshampuram, Mysuru – 570 012 Karnataka, INDIA  
Affiliated to University of Mysore,  
Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence

**Internal Quality Assurance Cell 2022-23**


| Sl. No. | Name  | Designation                           |
|---------|---|---------------------------------------|
| 01      | Dr. B R Jayakumari, Principal   | Chairman                              |
| 02      | Dr. Sreedhara H   | Dean, Academics                       |
| 03      | Smt. Shruthy Poonacha   | Faculty representation from UG and PG |
| 04      | Smt. Rachana C R  |                                       |
| 05      | Dr. Mahadesh Prasad A J   |                                       |
| 06      | Smt. Radhika Rani   |                                       |
| 07      | Dr. Manu R  |                                       |
| 08      | Sri T. Muralidhar Bhagavat, President, MES  | Management Member                     |
| 09      | Dr. C K Renukarya   | Administrator                         |
| 10      | Dr. S R Ramesh  | Administrator                         |
| 11      | Dr. M Dharma Prasad<br>CEO & Chief Scientist<br>M/s. Prosetta, Bioconformatics Private Ltd. | Industrialist                         |
| 12      | Kum. Sharada, III B.Com.  | Student                               |
| 13      | Mr. Varun,<br>M/s. Pairu Organics & Naturals  | Alumni                                |
| 14      | Ms. Geetha D  | Co-ordinator                          |
| 15      | Smt. Poornima S   | Communication Co-ordinator            |

  
(Dr. B R Jayakumari)

**PRINCIPAL**  
Smt. Bhagyalakshamma Rattehalli Ramappa  
Mahajana First Grade College (Autonomous)  
Jayalakshampuram MYSURU-570 012



• Student Counselor Committee



Mahajana Education Society (Regd.)  
**SBRR Mahajana First Grade College (Autonomous)**  
 Affiliated to University of Mysore  
 Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence  
**Post Graduate Wing**  
**Pooja Bhagavat Memorial Mahajana Education Centre**  
 KRS Road, Metagalli. Mysore - 570 016. Karnataka

---

**Dr. B R Jayakumari, M.A., M.Phil., Ph.D.**  
Principal

**Dr. C.K. Renukarya**  
Director, Post Graduate Wing

---

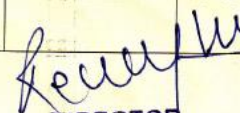
Ref: pgc/025-B/2023-24 Date: 9-5-23

**Counselor Committee**

The following is the revised composition of “**COUNSELOR COMMITTEE**” of SBRR Mahajana First Grade College, PG Wing, Pooja Bhagavat Memorial Mahajana Education Centre, K.R.S. Road, Metagalli, Mysore-16, with immediate effect i.e., 03 April, 2023 until further orders. This Committee is formed for guiding Students, Faculty & Non-Teaching Faculty with respect to psychological counselling.

| Sl. No. | Name                 | Designation  | Position in the Committee | Contact No. |
|---------|----------------------|--|---------------------------|-------------|
| 1       | Dr Bhavana V.        | Assistant Professor,<br>Social Work Department,<br>PG wing of SBRR<br>Mahajana FG college,<br>Mysuru         | Member                    | 8095831765  |
| 2       | Dr. Indushekara G V  | Assistant Professor,<br>Social Work Department,<br>PG wing of SBRR<br>Mahajana FG college,<br>Mysuru         | Member                    | 9986966224  |
| 3       | Mrs. Shobha D        | Assistant Professor,<br>Computer Science<br>Department,<br>PG wing of SBRR<br>Mahajana FG college,<br>Mysuru | Member                    | 8867769209  |
| 4       | Ms. Smitha Grace S R | Assistant Professor,<br>Life science Department<br>PG wing of SBRR<br>Mahajana FG college,<br>Mysuru         | Member                    | 9945165301  |

**VIJAYALAKSHMI MURALIDHAR**  
Digitally signed by  
VIJAYALAKSHMI MURALIDHAR  
Date: 2023.05.11 11:26:15 +05'30'

  
**DIRECTOR**  
**SBRR MAHAJANA F.G. COLLEGE**  
**(Autonomous)**  
**POST GRADUATE WING**  
**PRAJ MAHAJANA EDN. CENTRE**

Office : 0821-4009600 Web: [www.pgc.mahajana.edu.in](http://www.pgc.mahajana.edu.in)

## 6 Programmes

### • Programmes approved by AICTE :

- Name : Master of Computer Applications
- Number of seats : 60
- Duration : 2 years
- Cut-off marks of admission during the last three years :

| Academic Year | Cut-off % for Admission |
|---------------|-------------------------|
| 2022-23       | 50%                     |
| 2021-22       | 54.16%                  |
| 2020-21       | 54.40%                  |

- Fee :

| MCA                | I Year      |               | II Year     |               |
|--------------------|-------------|---------------|-------------|---------------|
|                    | Gov/UoM     | Mgmt          | Gov/UoM     | Mgmt          |
| Karnataka Students | Rs.90,000/- | Rs.1,00,000/- | Rs.90,000/- | Rs.1,00,000/- |

- Placement Facilities : Pooled Campus / Off-Campus/on Campus
- Off-Campus Placement in Last Three Years :

| Year of Passing | Minimum salary | Maximum salary | No. of Students Placed |
|-----------------|----------------|----------------|------------------------|
| 2022            | Rs.15,000/-    | Rs.30,000/-    | 50                     |
| 2021            | Rs.18,000/-    | Rs.35,000/-    | 20                     |
| 2020            | Rs.20,000/-    | Rs.45,000/-    | 18                     |

## 7 Faculty

- Course/Branch wise list Faculty members : 09
- Permanent Faculty : 09
- Adjunct Faculty : Nil
- Permanent Faculty Student Ratio : 1 : 14
- Number of Faculty employed and left during the last three years :

| Year           | Faculty  |      |
|----------------|----------|------|
|                | Employed | Left |
| <b>2022-23</b> | 9        | 3    |
| <b>2021-22</b> | 9        | 0    |
| <b>2020-21</b> | 8        | 1    |

## 8 Profile of Director / Faculty

- **Profile of the Director**

- Name : Dr.C.K.RENUKARYA
- Date of Birth : 20/04/1942
- Work Experience :
  - Teaching : 52 years
  - Research : 42 years
  - Area of Specialization : Economics
- Research Guidance (Number of Students) :
  - Ph.D. (Completed/Ongoing) : 20 completed
- Research Publications : 20
- No. of Books published : 42
- Contact Number : +91-821-4009600





## • Profile of Faculty

**Mrs. Rachana C.R.**

**Designation** : Associate Professor & HOD

**Unique ID** : 1-428268176

**Date of Birth** : 05/11/1981

**Address:**

Department of Studies in Computer Science,

SBRR Mahajana First Grade College (Autonomous), PG Wing

Pooja Bhagavat Memorial Mahajana Education Centre,

K.R.S. Road, Metagalli, Mysore.

PIN 570016, Karnataka, INDIA.

Email: [rachanacr.pgc@mahajana.edu.in](mailto:rachanacr.pgc@mahajana.edu.in), [rachanacr@gmail.com](mailto:rachanacr@gmail.com)



## INTRODUCTION

I am working as ‘Associate Professor and Head’ in the Department of Studies in Computer Science, PG Wing of SBRR Mahajana First Grade College (Autonomous), Pooja Bhagavat Memorial Mahajana Education Centre (AICTE approved, affiliated to Mysore University) Mysore and I have *20 years* of teaching experience.

**My areas of research interest** are Cloud Computing, Computer Networks, Data Security, Managerial Communication, Information Technology and Management.

## EDUCATIONAL QUALIFICATION

- **M.Tech (Computer Network Engineering)** from National Institute of Engineering, Mysore, Visvesvaraya Technological University, “Jnana Sangama”, Machhe, Belgaum, with 75% in April 2012.
- **M. Phil (Computer Science)** from M.K.U, 61.8%, First Class in 2009.
- **Master of Science (IT)** from Karnataka State Open University, Mysore, First Class With Distinction (2005).

- **B.E (Computer Science and Engineering)** from Adichunchanagiri Institute of Technology, Chikmagalur, Visvesvaraya Technological University, “Jnana Sangama”, Machhe, Belgaum, 65% in July 2003.
- **PUC (PCMB)** from Marimallappa’s college, Mysore 73.16% in June 1999.
- **SSLC** from Marimallappa’s High School, Mysore 89.92% in April 1997.

*Member: Institution of Engineers (India), Computer Society of India, International Association of Engineers (IAENG), International Association of Computer Science and Information Technology (IACSIT).*

#### **WORK EXPERIENCE:**

- For the last **20 years**, I have been working in **Computer Science department** at PG wing of SBRR Mahajana First Grade College (Autonomous), Pooja Bhagavat Memorial **Mahajana Education Center**, Mysore.
- Serving as the Internal Quality Assurance Cell (IQAC) **Co-ordinator** of Mahajana PG Wing.
- Served as the **coordinator** of the PG Diploma in E-governance course of UGC sponsored Innovative Program for the period of 2 years at Mahajana Post-Graduate Centre.
- Taught Management Information Systems at the **Institute of Company Secretaries of India**, Mysore Chapter.
- Taught Computer Science subjects for **MBA** and **MCA** students at **ICFAI**-Distance learning program.
- Was also involved in teaching Computer Applications course for **D.ED students** at **Mahajana DED** College for a period of 3years.
- Involved in teaching ‘**Executive Communication and Soft Skills**’ subject for M.A Economics students of JSS PG Centre, Mysore.
- Delivered technical sessions for the students of M.Sc. IT Distance Education Programme of Mysore University, May 2019.

**SUBJECTS PROFICIENT IN:** Fundamentals of Internet of Things, Cloud Computing, Computer Networks, Web Programming, Managerial Communication, Analysis and Design of Information Systems, Personality Development and Soft Skills, Professional Ethics and Values, Software Engineering, Programming in ‘C’, Wireless and mobile networks, Information and Network Security.

## PAPERS PUBLISHED:

1. Published a paper titled "A Review of Security System in E-Banking" in **NITTE Management Review**, Journal of Justice K. S. Hegde Institute of Management Vol.4, Issue 2, December 2010.
2. Published a paper titled "A Review on Peer-to-Peer Networking on the Internet" in the **International Research Journal- Oriental Journal of Computer Science and Technology**, ISSN 0974-6471, Vol.5, No.1, Pgs. 93-98, June 2012.
3. Published a paper titled "The Role of Digital Signatures in Digital Information Management" in **ABHINAV International Monthly Refereed Journal of Research in Management and Technology**, ISSN 2320-0073, Impact factor: 0.0812 (2012) for the month of March 2013, Vol. II, Issue: III.
4. Published a paper titled "An insight into the world of Wearable Computing" in **International Journal of Science, Engineering and Technology Research (IJSETR)**, ISSN: 2278-7798, Volume 3, Issue 3, March 2014.
5. Published a paper (as co-author) titled "Cloud Computing- challenges ahead for Human Resource Managers" in **International Journal of Scientific Research**, ISSN: 2277-8179, Volume 3, Issue 4, April 2014.
6. Published a paper titled "An E-Mail Based Solution for Peer to Peer File Download" in **International Journal of Innovative Research & Development**, ISSN 2278 – 0211 (Online), Volume 3, Issue 5, May 2014.
7. Published a paper titled 'Mobile Commerce: Opportunities in the Changing Global Environment' in **International Journal of Research in Information Technology (IJRIT)**, ISSN 2001 – 5569 (Online), Volume 3, Issue 3, March 2015.
8. Published a paper titled 'Peer - To - Peer File Sharing: Offline Approach' in **International Journal of Innovative Research in Computer and Communication Engineering** (An ISO 3297: 2007 Certified Organization), ISSN (Online): 2320-9801, Vol. 3, Issue 7, July 2015.
9. Published a paper titled 'E-Commerce and Cloud Computing-A Survey' in **International Journal of Innovative Research in Computer and Communication Engineering** (An ISO 3297: 2007 Certified Organization), ISSN (Online): 2320-9801, Vol. 4, Issue 8, August 2016. **Impact factor: 6.577**
10. Co-authored and Published a paper titled 'Role of ICT Education in Empowering Women' in **International Journal of Management and Social Science Research Review**, Volume 2, Issue 4, February 2017, **Impact Factor: 3.996**, Special Issue- **International Conference on 'Inclusive Business Growth & Sustainable Development'** Organized by Department of Commerce, Kristu Jayanthi College, Bangalore.
11. Published a paper titled 'Cloud Computing-A Research Perspective on the Security Issues' in **International Journal of Current Engineering and Scientific Research (IJCESR)**, ISSN 23940697, DOI: 10.21276/ijcesr, Vol. 4, Issue 4, April 2017, **Impact Factor- 3.058. (UGC Approved Journal)**

12. Published a paper titled 'Cloud Computing-A Unified Approach for Surveillance Issues' in **IOP Conference Series: Materials Science and Engineering**, Volume 225, conference 1 (2017) 012073 doi:10.1088/1757-899X/225/1/012073, Published under licence by IOP Publishing Ltd., Accepted papers received: 17 July 2017, Published online: 7 September 2017.
13. Published a paper titled 'Data Sequestration Issues and Challenges in Cloud Computing: An Analysis and Review' in **Global Journal for Research Analysis**, A Peer Reviewed, Referred, Refereed & Indexed **International Journal**, Volume 06, Issue 12, ISSN: 2277-8160, December 2017, IMPACT FACTOR: 4.547. **(UGC APPROVED JOURNAL)**
14. Published a paper titled 'Cloud Computing: the History and Evolution of Software as a Service' in **International Conference on Innovations in Engineering, Technology and Sciences (ICIETS)- 2018** with ISBN "CFP18Q63-PRT/978-1-5386-7321-8", organized by NIE Institute of Technology, Hootagalli Industrial Area, Mysore, Karnataka, during 20<sup>th</sup> & 21<sup>st</sup> September 2018.
15. Co-Authored and Published a paper titled 'The role of Digital Media in the promotion of Tourism in Mysore' in the proceedings of the **National Conference on Tourism and the Digital Transformation- Travel Log 18** with ISBN 978-81-93115-05-3", organized by Department of Tourism & Hospitality Management, Pooja Bhagavat Memorial Mahajana Education Centre, KRS, Road, Metagalli, Mysuru on 5<sup>th</sup> & 6<sup>th</sup> October 2018.
16. Co-Authored and Published a paper titled 'The role of Digital Media in the promotion of Tourism in Mysore' in **Journal of Emerging Technologies and Innovative Research** – An International Open Access Journal, ISSN 2349-5162, **UGC Approved**, Impact Factor: 5.87, Volume 5, Issue 12, December 2018.
17. Published a paper titled 'A Study on the Trends and Influence of Mobile Applications in Travel & Tourism' in **Journal of Emerging Technologies and Innovative Research** – An International Open Access Journal, ISSN 2349-5162, **UGC Approved**, Impact Factor: 5.87, Volume 5, Issue 12, December 2018.
18. Published a paper titled 'Artificial Intelligence for improvised Digital Marketing Strategies- A Study' in **Journal of Emerging Technologies and Innovative Research** – An International Open Access Journal, ISSN 2349-5162, **UGC Approved**, Impact Factor: 5.87, Volume 6, Issue 3, March 2019.
19. Published a paper titled 'Role of Artificial Intelligence And Machine Learning in Improving Online Shopping Experience- A Review' in **Journal of Emerging Technologies and Innovative Research** – An International Open Access Journal, ISSN 2349-5162, **UGC Approved**, Impact Factor: 5.87, Volume 6, Issue 6, June 2019.
20. Published a paper titled 'Digital Transformation- the Internet of Things- Opportunities and Challenges' in **Journal of Xidian University**. UGC- Care Approved Group 2 Journal. Volume 14, Issue 4, April 2020. Impact factor: 5.4
21. Published a paper titled 'Data Security in Cloud Computing: A Research Perspective' in **International Journal of Research and Review**, Indexed, Peer-Reviewed, Refereed Journal,

#### PAPERS PRESENTED:

1. Co-authored and **presented a paper** titled 'A Research into the world of Virtual Reality in Cloud Computing' at the **International Conference** on "Issues and Challenges in Business Education and Information Technology" organized by Vidyavardhaka Sangha, Sri K. Puttaswamy First Grade College, VVCE Campus, Mysuru, **8th February 2023**.
2. Received **Best Oral Presentation award** for the **video presentation** on 'Digital Leap in Indian Education Sector during Covid-19' presented at The 10th International Conference on Electronics, Communications and Networks (CECNet2020), **October 25-28, 2020**. Online Conference.
3. **Presented** a paper titled 'An Overview of the Smart Cities Mission in India' at the two days online International Conference on "Recent Trends in Computer Science and Information Technology" (ICRCSIT-20) organized by the Departments of Computer Science and Engineering & Information Technology, St. Martin's Engineering College in Association with Computer Society of India, Hyderabad & Global Cyber Security Forum, India on **17th & 18th June, 2020**.
4. **Presented** a paper titled 'Cloud Computing-A Unified Approach for Surveillance Issues' at the International Conference on Advanced Material Technologies (ICAMT-2016) organized by Dadi Institute of Engineering and Technology, Visakhapatnam, Andhra Pradesh, India during **27th & 28th December 2016**.
5. **Co-authored and Presented** a paper titled 'Innovative marketing campaigns: Using Digital Marketing as a modern tool for creating promotional strategies' at the National Conference on 'Contemporary Issues in Management' Challenges and Advances in Emerging Markets - NCCIM – 2014 held on 27<sup>th</sup> September 2014 at Vidyavardhaka College of Engineering, Department of Business Administration, Mysore.
6. **Co-authored and presented** a paper titled 'Innovative marketing strategies using technology for creating promotional strategies' at the National Conference on 'Disruptive Marketing- the way forward' on 27<sup>th</sup> April 2012 held at CMR Institute of Management Studies organized by the Department of Management Program, Bangalore.
7. **Co-authored and Presented** a paper titled 'The Broadening horizons and discovery learning in distance education' at the International Conference on Open and Distance Learning in Global Environment: Issues and Challenges held between 21st-23rd Sept. 2011, Mysore.
8. **Co-authored a Paper** titled '**E-Learning- the Challenging Problems**' published in the proceedings of the First National Conference on Cryptography & network Security, held during 18<sup>th</sup> & 19<sup>th</sup> February 2009 at School of Computing Sciences, VIT University, Vellore, Tamil Nadu.

9. **Presented** a paper titled 'Software Project Management- the Essentials' at NCSOFT-07 held at Cochin University of Science and Technology, Cochin during April 26, 27, 2007.

#### CONFERENCES:

1. **Participated** in the II International Conference on Signal & Image processing ICSIP-2009 held during 12th – 14th Aug 2009 Conducted by Vidya Vikas Institute of Engineering & Technology, Mysore.
2. **Participated** in the two days National Conference on “Mathematical needs of Engineers” sponsored by TEQIP Phase-II on 25<sup>th</sup> & 26<sup>th</sup> July 2014, at the Department of Mathematics, SJCE, Mysore.

#### FACULTY DEVELOPMENT PROGRAMMES:

1. Have successfully completed the **Quality Improvement Programme (QIP)** on “Innovative practices in Managerial communication” conducted by TAPMI, Manipal during 12<sup>th</sup> -16<sup>th</sup> December, 2005.
2. **Participated** in two day faculty development programme on '**Real –time Wireless Sensor Networks and IoT**' jointly organized by Computer Society, Bangalore and Mysore Chapters and GSSS Institute of Engineering and Technology for Women, Mysuru on 27<sup>th</sup> and 28<sup>th</sup> January 2016.

#### WORKSHOPS

1. **Participated** in the Intel Developer Forum held during October 12-13, 2004 at Bangalore on “.net programming”.
2. **Participated** in two day workshop on “Software Testing and Test Automation” held on Nov. 28<sup>th</sup> – 29<sup>th</sup> 2006 organized by Dept. of MCA, PBMMPGC.
3. **Attended** ISiM Management Workshop on “Text mining and Data Warehousing” On March 06, 2007 at Vidyanidhi Seminar Hall, Manasagangotri, Mysore.
4. **Participated** in the 6 days workshop on “Electronics in Industrial Automation” organized by the Dept. of Electronics and Communication from 16<sup>th</sup>-21<sup>st</sup> July 2007 at SJCE, Mysore.
5. **Participated** in the workshop on “Building Rich Internet Applications with Flex Framework”, A joint network program under TEQIP, organized by the Dept. of Computer Science and Engineering from August 4<sup>th</sup> -6<sup>th</sup> 2008 at NIE, Mysore.
6. **Participated** in the 3 days workshop on “Intelligence and Security Informatics” during 17<sup>th</sup>-19<sup>th</sup> June, 2010 at ISIM organized by the International School of Information Management, Mysore.
7. **Participated** in Technical Education Quality Improvement Programme (TEQIP-II) sponsored Two Days Workshop on “Recent Trends and Challenges in Next Generation Computer Networks” during May 30<sup>th</sup> and 31<sup>st</sup> 2014 at the National Institute of Engineering, Mysore.

8. **Participated** in the three days National Level Workshop on “Mathematics behind Machine Learning”, organized by Department of Information Science and Engineering, SJCE, Mysore from 21<sup>st</sup> August 2014 to 23<sup>rd</sup> August 2014.
9. **Participated** in the One day Workshop on “**Modern Machine Learning Applications**” organized by JSS Research Foundation, Mysuru on 24<sup>th</sup> January 2015.
10. **Participated** in two day workshop on ‘**Introduction to Network Security and Cloud Computing Technologies – An Industry Perspective**’ on 21<sup>st</sup> and 22<sup>nd</sup> November 2016 organized by The National Institute of Engineering, Computer Science Division, Mysore.
11. **Participated** in one day workshop on ‘**LATEX**’ on 11<sup>th</sup> March 2017 organized by Department of Studies in Computer Science, Manasagangotri, University of Mysore, Mysore.
12. **Participated** in one day workshop on ‘**Emerging Trends in Research**’ on 15<sup>th</sup> February 2018 organized by SBRR Mahajana First Grade College, Jayalakshmipuram, Mysuru.

#### SEMINARS:

1. **Attended** a National level seminar on “Embedded Essentials” conducted by Microsoft on March 18<sup>th</sup> 2004 at Taj Residency, Bangalore.
2. **Participated** in the one day seminar on “e-governance” on 30<sup>th</sup> August 2010 at SBRR Mahajana FGC, Mysore.
3. **Participated** in the one day State Level Seminar on “**Multimedia Information System**” organized by Department of Computer Science, MMK & SDM Mahila Mahavidyalaya, Mysuru on 1<sup>st</sup> October 2015.

#### INVITED AS RESOURCE PERSON/SESSION CHAIR/COMMITTEE MEMBER:

1. Chaired a session at the National Conference on “Electronics, Signals, Communication (NCESC-2017)” in association with IETE Mysuru Centre and IJCA on the occasion of world Telecommunication day on 29<sup>th</sup> May **2017** organized by ECE and TCE Dept, GSSSIETW, Mysuru.
2. Invited as a resource person to conduct technical sessions at ‘The Institute of Company Secretaries of India (ICSI)’ as part of e-Governance program during **2016 and 2017**.
3. Invited to deliver a special talk on ‘Cloud Computing: Introduction and Challenges’ at JSS College for Women, Chamarajanagar, Karnataka, India during March **2017**.
4. Served as Member of Scientific Committee of the 4<sup>th</sup> International Conference on Applied Materials and Manufacturing Technology held in Nanchang, **China** during May 25-27, **2018**, Co-hosted by National Defense Key Discipline Laboratory of Light Alloy Processing Science and Technology (Nanchang Hong kong University) and Wuhan University of Science, organized by AEIC Academic Exchange Information Centre.

5. Technical Program Committee member of The 11th International Conference on Electronics, Communications and Networks (CECNet 2021), November 18-21, **2021** Online Conference, Beijing.
6. Technical Program Committee member of The 12th International Conference on Electronics, Communications and Networks (CECNet 2022), November 4th-7th, **2022** Online Conference, Beijing.

#### **Achievements/Honors/Awards:**

1. Received **Best Oral Presentation** award for the video presentation on 'Digital Leap in Indian Education Sector during Covid-19' presented at The 10<sup>th</sup> International Conference on Electronics, Communications and Networks (CECNet2020), October 25-28, 2020. Online Conference.
2. **Appointed as expert reviewer** on 14<sup>th</sup> April 2021 with AEIC (Academic Exchange Information Centre). AEIC is a strategic partner of world-leading publishing houses, including IEEE, Springer, Elsevier, Wiley, IoP, EDP, ASME, SAGE, SPIE, Taylor & Francis Group, American Scientific Publishing, DEStech Publications, TTP and Atlantis Press.
3. Successfully submitted questions as an **Expert** on **AICTE-Student Learning Assessment Project** application Portal under specialization- Internet of Things and received remuneration for the accepted questions- **August 2021**.
4. Received **Certificate of Achievement** for completing the online course - Communication and Interpersonal Skills at Work from University of Leeds and Institute of Coding on 19<sup>th</sup> **September 2021**.

#### **OTHER ACADEMIC INFORMATION:**

1. I have completed one UGC Sponsored Minor Research Project in August 2015.
2. Member of Governing body, SBRR Mahajana First Grade College (Autonomous), 2019, 2020, Mysuru.
3. On the **Board of Examiners** of DoS in Computer Science, University of Mysore, Mysuru from past 12+ years.
4. Appointed as B.O.E member, Karnataka State Open University, letter dated **30th April 2020**.
5. Responsible for establishing Institution Innovation Council(IIC) as per the norms of Innovation Cell, Ministry of HRD, Govt. of India during IIC Calendar year **2019-20** and served as The President of IIC at the Institution level.
6. Serving as **B.o.S Chairman**, Dept. of MCA & M.Sc. Computer Science (Autonomous Board) w.e.f. 2019-20 at Mahajana Post-Graduate Centre.



7. Served as **B.O.E. member** at DoS in Computer Science, Mysore University, J.S.S. P.G. Studies (2014-15, 15-16), St. Philomena's College, Centre for Information Science & Technology (CIST) Mysore during 2016- 2019.
8. Served as **reviewer** for European Journal of Engineering Education.
9. Serving as **reviewer** of Journal of Emerging Technologies and Innovative Research, An International Open Access Journal & UGC and ISSN Approved, ISSN: 2349-5162.
10. Actively **conducted workshops** on 'Improving Communication Skills' in different schools and colleges of Mysore city. Traveled to different MBA colleges in Karnataka to deliver special lectures on 'Communication Skills'.
11. Published a basic text book on Computer Science for PUC students (along with other faculty members of MCA dept.).
12. Developed a course material on "Computer Application" for Karnataka State Open University, M.Sc Bio-Technology.
13. Worked as a **convener** in a number of national/state/regional level seminars and conferences including one UGC sponsored state level Conference.

#### **Webinars/ Online Sessions attended since the outbreak of Covid-19:**

1. **Attended MHRD's Innovation Cell, IIC online Session 4**, Topic: Role of Network Enablers in driving I & E in HEIs – A case of TiE, India on **1<sup>st</sup> May 2020** from 3 pm – 4pm. *Speaker* – Ms. Geetika Dayal, Executive Director, TiE Delhi NCR.
2. Participated in **National Webinar** on 'Web Content Licensing' organized by IQAC, Janki Devi Memorial College on **6<sup>th</sup> May 2020** (University of Delhi) from 11am - 2pm.
3. Attended **Live Webinar** on NAAC RAF Criterion – II Teaching- Learning & Evaluation on **11<sup>th</sup> May 2020** from 11am – 1pm organized by D.R.M Science College, AVK College for Women, Bapuji – B Schools, Davangere, Karnataka – 577004. *Speaker*: Dr. Deepak Sharma, Associate Prof. & IQAC – coordinator, Sri Guru Nanak Dev Khalsa College University of Delhi, New Delhi.
4. Participated in **Faculty Awareness Programme** on National Assessment Accreditation Council organized by department of BBA(CA) Shri Dnyaneshwar Mahavidyalaya, Newas, Ahmednagar during **12-17 May 2020**.
5. Attended **NAAC awareness programme** – Autonomous Colleges on **May 14, 2020** from 3pm- 5pm, Organized by NAAC Bangalore.
6. Attended **Global Higher Education Submit 2020** on **20<sup>th</sup> May 2020** from 6pm – 8pm. Title: Outcome Based Education- Need of the Hour.
7. Attended **National level Online Faculty Development programme** on 'New Performance Appraisal System and Career Advancement Scheme' on **22<sup>nd</sup> May 2020**, organized by Seshadripuram Degree College Mysore, IQAC from 11am to 12.30 pm. *Speaker*: Prof. K. Sajjath, Associate Professor, Dept. Of English, Govt. Science College (Autonomous), NAAC Co-ordinator, State Quality Assurance Cell, Dept. Of Collegiate Education, Bangalore.

8. Completed **Covid-19 Awareness Quiz** on **2-06-2020** with a score of 80% conducted by HKBK College of Engineering, Bengaluru-560045.
9. Attended **Webinar** on 'Cyber Security: Technical Perspective' speaker: Dr. Udaya Shankar Puranik & 'Cyber Security – Technologies and Academic Opportunities' speaker: Dr. Gajendra Deshpande on **June 12, 2020** from 11:00 am to 1 pm organized by Karnataka Science and Technology Academy, Department of Science and Technology, Govt. of Karnataka.
10. Attended **Webinar** on "What is Data science" organized by Department of Information Science and Engineering in association with NIE-CSI Student branch on **19th June 2020**.
11. Attended **National E - Conference** on "NAAC's New Framework of Accreditation & Assessment for Higher Educational Institutions in India", organized by IQAC of Yashwantrao Chavan School of Social Work, Satara, Maharashtra on **July 8, 2020**.
12. Attended **3 days FDP** on Internet of Things organized by STEP - National Institute of Technology, Surathkal in Association with Pantech E Learning from **16<sup>th</sup> July 2020 to 18<sup>th</sup> July 2020**.
13. Attended **virtual session** on Online Education in Covid Times: Opportunities and Challenges organized by CII Mysore Women Network Forum on **4<sup>th</sup> August 2020** from 3:30 pm to 4:30 pm.
14. Attended **National level Webinar** on NAAC 2020: Revised Accreditation Framework for Autonomous Colleges organised by IQAC, SBRR Mahajana First Grade College (Autonomous), Mysuru on **14<sup>th</sup> August 2020**.
15. Participated in the **webinar** on 'Educational Institution: How to create a Powerful Brand Identity' on **27<sup>th</sup> August 2020** from 11 am to 1 pm organised by PG Department of Information Technology, AIMIT, St. Aloysius College, Mangaluru.
16. Successfully completed **5 days Online Faculty Development programme** on 'SENSOR TECHNOLOGY' from 1<sup>st</sup> OCTOBER to 5<sup>th</sup> OCTOBER, 2020 organized by Department of Electronics and Communication Engineering, National Institute of Technology, Jamshedpur in collaboration with AICTE Training and Learning (ATAL) Academy, Guwahati.
17. Participated in the International Webinar on 'Personality and Literatures of Dr. Prabhu-shankara' organized by IQAC and Department of Kannada, Government First Grade College, Bilikere, Hunsur Taluk, Mysuru on 15<sup>th</sup> October 2020.

**Mr. Basanth Kumar H.B**

**Designation** : Assistant Professor

**Unique ID** : 1-429559829

**Date of Birth** : 01/05/1984



**Qualification:** MCA., (Ph.D)

**Area of Specialization:** Programming Languages, Machine Learning

**Work Experience:** Teaching- 13 years & Research: 5 years

**Research:** Digital Image Forensics

**Number of Publications:** International : 11

Workshop : 4

Conference : 3

Seminar : 1

FDP : 5

**Member of professional bodies:** Computer Society of India.

**Other details:**

Serving as B.o.S Member, Dept. of MCA (Autonomous Board).

**Journal publications**

- 1 Basanth Kumar H.B, "**An Overview of Data Mining**", Oriental Journal of Computer Science & Technology, Vol.05, No. (1), pp. 69-73, June 2012.
- 2 Basanth Kumar H.B, "**Web Usage Mining and Business Intelligence**", Oriental Journal of Computer Science & Technology, Vol.06, No. (1), pp. 119-124, March 2013.
- 3 Basanth Kumar H.B, "**A Review on Shot Boundary Detection**", Oriental Journal of Computer Science & Technology, Vol.07, No. (1), pp. 39-44, April 2014.
- 4 Basanth Kumar H.B, "**An Overview on Content-Based Image Retrieval**", Oriental Journal of Computer Science & Technology, Vol.08, No. (1), pp. 39-42, April 2015.
- 5 Basanth Kumar H B, "**Digital Image Watermarking: An Overview**", Oriental Journal of Computer Science & Technology, Vol. 9, No. (1), pp. 07-11, April 2016.
- 6 Basanth Kumar H B, "**Comparative Study on Classification of Digital Images**", Oriental Journal of Computer Science & Technology, Vol. 10, No. (2), pp. 413-416, June 2017.
- 7 Basanth Kumar H B, "Identifying Natural Images and Computer Graphic Images Based on Texture Feature Homogeneity", in Intl. Jrnl. of Current Advanced Research, Vol.7, Issue 4, pp. 12001-12002, April 2018.
- 8 Basanth Kumar H B and H R Chennamma, "**Watermarking of Computer Generated Imagery: A Review**", in Proc. of Third IEEE Intl. Conf. on Electrical, Computer and Communication Technologies, Vol. 3, 1251-1258, 2019.
- 9 Basanth Kumar, H.B., Chennamma, H.R. (2021). "**Classification of Computer Graphic Images Using Deep Learning**", In: Sengodan, T., Murugappan, M., Misra, S. (eds) Advances in Electrical and Computer Technologies. ICAECT 2020, Lecture Notes in Electrical

Engineering, Vol. 711, Springer, Singapore. [https://doi.org/10.1007/978-981-15-9019-1\\_12](https://doi.org/10.1007/978-981-15-9019-1_12).

- 10 Halaguru Basavarajappa Basanth Kumar and Haranahalli Rajanna Chennamma, "Classification of Computer Graphic Images and Photographic Images Based on Fusion of Color and Texture Features", *Revue d'Intelligence Artificielle*, vol. 35, No. 2, pp. 2-1-207, June 2021.
- 11 Halaguru Basavarajappa Basanth Kumar and Haranahalli Rajanna Chennamma, "Dataset for Classification of computer graphic images and photographic images", *IAES International Journal of Artificial Intelligence*, vol. 11, No. 1, pp. 137-147, March 2022.

#### **Papers Presented:**

- Presented a paper in the national seminar on "Managing in Uncertain Times" organized by B.N. Bahadur Institute of Management Sciences, Manasagangotri, University of Mysore, Mysore, from 30th May to 31st 2008.

**MRS. SHOBHA D.**

**Designation** : ASSISTANT PROFESSOR

**Unique ID** : 1-2188040481

**Date of Birth** : 21/07/1975

**Qualification** : M.Sc(CS) , M.Phil



**Area of Specialization** : Distributed Parallel Processing and Data warehousing

**Work Experience** : Teaching – 20 years Research: 2 years

**Research** : Computer Science

**Number of Publications:** International : 10

Workshop : 2

Conference : 1

Seminar : 3

FDP : 6

**Projects:** Developed a software “ Building commencement certificate” to MUDA in 2015.

**Other Details :**

- Worked as BoE Member for PG in 2015-16.
- Working as BoS Member for PG(Autonomous) from 2019.

**Publications :**

- 1 Published International paper on “Stages of Growth in Data Warehousing systems and Architecture” in International Journal of Social and Applied Science , Issue 3, vol.no 1,PP:155-162,sep 12.
- 2 Published International paper on “ Mastering the Data Warehouse Design by Bridging the Gap between it and Organization “ in International Journal of Social and Applied Science , Issue 3, vol.no 1,PP:165-168 ,Sep 12.
- 3 Published International paper on “Key success Factors for Data Warehouse Implementation: Analysis” in Oriental Journal of Computer science & Technology , Issue 2, vol.no 7,PP:231-236, August 14.
- 4 Published International paper on “Biometric Cryptosystems: For User Authentication” in International Journal of Innovative Research in Computer and Communication Engineering, Issue 5, Vol 3, pp: 4322-4326, may 15. Impact factor :6.18
- 5 Published International paper on “Survey of Classification Methods and Synchronization of Sentiment analysis and opinion analysis” in International Journal of Innovative Research in

- Computer and Communication Engineering Issue 5, Vol 4, pp: 9172-9178, may 16. Impact factor :618
- 6 Published International paper on “ Survey on performance analysis of different clustering algorithms” in International journal of research in computer applications and robotics ,vol 5 issue 5, pg61-64,may 2017.
  - 7 Published International paper on “ Survey on IOT: Architecture, Technologies, Application” in International journal of scientific research in computer science applications and management studies ,Issue 3, Volume 7, May 2018.
  - 8 Published International paper on “ A Survey on Data Science Technologies and Big Data Analytics” in International journal of Information And Computing Science, Volume 6,Issue 6, June 2019.impact factor : 5.2.
  - 9 Published International paper on “Need for Smart Agriculture in India” in Journal of Xidian University, Volume 14, Issue 4 2020 , UGC- Care Approved Group 2 Journal, May 2020 ,ISSN No:1001-2400 , Impact Factor: 5.4
  - 10 Published national paper on “Aquatic Ecosystem Algae Classification Using Different Classifier in Shodhasamhita:Journal of Fundamental and comparative Research: IF=7.268, Volume IX, Issue 2 2022 , UGC- Care Approved, July-December: 2022 , ISSN No:2277-7067

**Mrs. Yashaswini J.**

**Designation :** ASSISTANT PROFESSOR

**Unique ID :** 1-2187885425

**Date of Birth:** 05/10/1988



**Qualification:** B.E., M.Tech., K-SET.

**Area of Specialization:** Cryptography and Network Security, Theory of Languages and Automata.

**Work Experience:** Teaching- 9 years

**Number of Publications:** International : 8

Workshop : 5

Conference : 2

Seminar/Webinar : 10

FDP : 9

**Member of professional bodies:** Institution of Engineers (India)

**Other Details:**

- Serving as B.o.S Member for M.C.A. (Autonomous Board), Dept. of Studies in Computer Science, PG Wing of SBRR Mahajana FG College from 2019.
- Served as BoE member and chairperson between 2019-2022.

**Publications:**

1. "Data Hiding in Encrypted Image With LSB Substitution", International Journal of Science and Research (IJSR), Issue 6, Vol 2, PP: 125-128 ISSN (Online):2319-7064, June 2013.
2. "Key Distribution for Symmetric Key Cryptography: A Review", International Journal of Innovative Research in Computer and Communication Engineering ( IJRCCE), Issue 5, Vol 3, PP:4327-4331ISSN(Online): 2320 – 9801, ISSN (Print): 2320 – 9798, May 2015.
3. "A Review on Public Key Cryptography: Algorithms", International Journal of Innovative Research in Computer and Communication Engineering ( IJRCCE), Issue 5, Vol 4, pp:8283-8289ISSN(Online): 2320 – 9801, ISSN (Print): 2320 – 9798, May 2016.
4. "A Review on IoT Security Issues and Countermeasures", Oriental Journal of Computer science & Technology (UGC Approved Journal), 10, No. (2): Pgs. 454-459, ISSN: 0974-6471, June 2017.
5. " An overview on Information Retrieval Models", International Journal of Science Research in Computer Science Applications and Management Studies(IJSRCSAMS), Vol. 7, Issue 3, ISSN: 2319-1953, May 2018.
6. "IoT Consumer Application: Smart Home Literature Review", International Journal of Information and Computing Science ( IJICS), Vol 6, Issue 5, ISSN: 0972-1347, May 2019.
7. "An Overview on Data Hiding Techniques", Journal of Xidian University, UGC- Care Approved Group 2 Journal, Volume 14, Issue 4, ISSN No: 1001-2400, April 2020.
8. "Software – Defined Networking Review: Architecture, Applications, Security threats and Vulnerabilities", Journal of Fundamental and Comparative Research, Vol.9, Issue 2, No.18, July- December 2022.

**Dr ANISHA KUMAR**

ASSISTANT PROFESSOR & TRAINING AND PLACEMENT OFFICER

**Unique ID** : 1-429559825

**Qualification:** MCA , MPhil, PhD

**Area of Specialization:** SOFTWARE ENGINEERING AND CYBER SECURITY

**Work Experience:** Teaching - 17 years Administration - 05 years

**Research Duration:** 3 years

**Research:** CYBER CRIMES IN FINANCIAL AND BANKING SECTOR FOCUSED ON USER AND SYSTEM SECURITY ISSUES

**Workshop /Conference / Seminar/ FDP attended :**

**FDP:06 WORKSHOP/SEMINAR :07**

**Experiences and Positions Held :**

2017-2022 : **FORMER PRINCIPAL** St .Joseph's College For Women , Sategalli, Mysuru

2017-2022 : **Secretary , Governing Council Committee** St. Joseph's College For Women, Sategalli, Mysuru

2013- 2015 : **Nodal Officer** St. Joseph's First Grade College, Jayalakshmipuram, Mysuru.

2012- 2017 : **Member , Governing Council Committee** St. Joseph's First Grade College, Jayalakshmipuram, Mysuru

2012- 2017 : **Head Of Department** , Computer Science St. Joseph's First Grade College, Jayalakshmipuram, Mysuru.

2009- 2011 : Incharge Reviwer For Staff Seminar, Pooja Bhagavt Memorial Mahajana PG Center , Mysuru.

2007-2012 : Assistant Professor, DoS in Computer Science Pooja Bhagavt Memorial Mahajana PG Center , Mysuru.

2006-2007 : Assistant Professor, DoS in Computer Science, SBRR Mahajana First Grade College , Jayalakshmipuram, Mysuru .

2004-2005 : Lecturer , DoS in Computer Science, Bhisop Cotton Women's Christian College , Bengaluru .





**Others :**

2022 : Member of the open forum Data Connectors, Cybersecurity Community since 1999.

2017-2018 : Appointed as B.O.E member, University of Mysore .

**PAPERS PUBLISHED:**

1. Published a paper titled "Managing in Uncertain Times " in B.N.Bhadhur Institute , May 2008.
2. Published a paper titled "Software Testing tools –winrunner and loadrunner " in IUP Publication, ICFAI Journal of Computer Science , vol III, june 2009.
3. Published a paper titled "Restoration as a Threat to Commit Cyber Crime " volume 05, June 2012 at Oriental Journal of Computer Science and Technology.
4. Published a paper titled "Social Engineering Using Restoration as a Threat to Commit Cyber Crime " volume 09,issue,08 august 2018 at International Research Journal Of Engineering And Technology (IRJET) e-ISSN :2395-0056 p-ISSN: 2395-0072

**Ms. LIKHITHA M M**  
ASSISTANT PROFESSOR

**Unique ID** : 1-43373344224

Qualification: MCA

Areas of Interest: Software Engineering, Web Technology, Object Oriented Programming , Computer Applications.



**PROJECTS:**

**Real Time**

Boho art gallery

April 2022 – August 2022

Skills: Web Development, WordPress

Online art gallery website for selling.

A responsive Web application for pet owners, buyers and sellers

April 2022 – August 2022

Skills: .NET, NetBeans, bootstrap.

**Academics**

Driver Fatigue and Alert System Using Artificial Intelligence

Nov 2021 – Feb 2022

Skills: Artificial Intelligence

Alerts the Driver using Artificial Intelligence, by CNN technique the system calculates the eye ratio and alert the driver when he is found drowsy.

Systematic Procedure to Maintain APMC System

Nov 2018 - March 2019

Skills: Web Development, ADO.NET, Database

A web application to help Farmers, Hopcoms and APMC managers by providing a platform to maintain a systematic procedure for Agriculture Produce Market Committee.

Student Data Management System

Aug 2021 - Nov 2021

Skills: Python, Databases, Tkinter GUI

An interface to store and retrieve student information easily.

**\*EXPERIENCE\***

Media Review Analyst, Theorem Inc. Mysore

**\*CERTIFICATIONS\***

Unified Communication Training Innovatia India, Bangalore.

**Mrs.R.Eswin Pria Angel**

**Designation :** ASSISTANT PROFESSOR

**Unique ID :** 1-43373888535

**Educational Qualification:** B.E., M.Tech

**Total Experience in Teaching:** 1 year 7 months



### **Journal Publications**

#### **International Journal:**

[1]. Raviraj.P, **R.Eswin Pria Angel**, Sanavullah.M.Y," An Efficient Approach for Shape Representation in Morphology by Combining Chaincode and Line Descriptors", in *TECHNIA-International Journal of Computing Science and Communication Technologies*,Vol-1, July-2009, pp.356-363.

[2]. Raviraj.P, **R.Eswin Pria Angel**, Sanavullah.M.Y," An Efficient Ultrasound Image Compression and Decompression Using DWT and Bayesshrink Algorithm", in *Georgian Electronic Scientific Journal: Computer Science and Telecommunications*, Vol-6(23), 2009, pp.83-93.

[3]. Raviraj.P, **R.Eswin Pria Angel**," An Adaptive, Optimal and Low Complexity(AOL) System for the Image Transmission over Point to Point wireless Networks", in *Georgian Electronic Scientific Journal: Computer Science and Telecommunications*, Vol-2(34),2012,pp.45-53.

#### **International Conferences**

[1]. C.Anand Deva Durai, M.Karnan , **R.Eswin Pria Angel** , "An Efficient Iris Recognition Using Hierarchical Phase-Based Matching(HPM) Technique ", in *International conference on High Performance Communication Networks and Computing (HPCNC-2010)* at Sastra University, Thanjavur on 22<sup>nd</sup> and 23<sup>rd</sup> of Jan 2010.

#### **Seminars/FDP/Workshops Details:**

- Participated in a Workshop on Network Simulator version 2, organized by Karunya University, Coimbatore on 17/09/2010.
- Completed the AWS online certification course on "Cloud Foundations" on 9/2/2023.

**Mrs. Shruthy Poonacha**

Designation : Assistant Professor

Unique ID : 1-738011028



**Teaching & Research experience:** Teaching: 17 years

**Research Interest:** Image Processing & Networking

**Paper Publications**

- Paper titled “**Artificial Intelligence**” published for the journal LEELAVATHY-2 which was presented in the National Level Conference hosted by Mathru Vedike (Women Scientists Forum) from 7<sup>th</sup> to 9<sup>th</sup> Nov 2009.
- Completed the Minor Research Project in “**Multimodal Biometrics**” and has published the same paper in the Science and Technology Journal ‘**Abhinav Journal**’. ISSN 2277-1174.
- Presented a paper in state level seminar on **Next Gen Computing & Emerging trends in Future Wireless Internet – A Survey** organized at Pooja Bhagawad Post Graduate College in September 2015.
- Mrs. Shruthy Poonacha presented a paper titled Green Computing in Cloud Environment-A Review”, at National Women’s Science Congress that was conducted from 7<sup>th</sup> November to 9<sup>th</sup> November 2019, jointly organized by SVAK and SBRR Mahajana First Grade College, Mysuru and won the **Best Paper award**.

**Funded Research Project:**

Completed the Minor Research Project in “**Multimodal Biometrics**” under the CPE grants, and published the same paper in the Science and Technology Journal ‘**Abhinav Journal**’. ISSN 2277-1174

**Seminar/ conference paper presentation:** State/National/International

- Paper titled “**Artificial Intelligence**” was presented in the National Level Conference hosted by Mathru Vedike (Women Scientists Forum) from 7<sup>th</sup> to 9<sup>th</sup> Nov 2009.
- Presented a paper in state level seminar on **Next Gen Computing & Emerging trends in Future Wireless Internet – A Survey** organized at Pooja Bhagawath Post Graduate College in September 2015.

**Seminar/conference workshop organized as coordinator/ organizer etc., (if any)** Institutional/State/National/International

- Have been conducting Institutional Level seminars/Special Lectures .
- Organizer of the state level IT seminar on Networking held in October, 2011 at SBRR Mahajana First Grade College, Mysore.

**Seminar/conference workshop/FDP attended by the faculty(other than paper presented)**  
State/National/International

- Attended one-day State Level Workshop on **“Accreditation: New Methodology”** organized by SBRR Mahajana First Grade College, Mysore on 29<sup>th</sup> August 2009.
- Attended International Peace Conference -3 on 6<sup>th</sup> August 2010.
- Attended one-day National Level workshop on **“Modern Trends in Research Methodology”** organized by Research Cell, SBRR Mahajana First Grade College, Mysore on 20<sup>th</sup> December 2011.
- Attended UGC sponsored one day National workshop on **“Applications of SPSS in Research Data Analysis”** held on 4<sup>th</sup> March 2014, organized by the Research Cell, SBRR Mahajana First Grade College, Mysore.
- Attended a state level seminar on **“High Performance Computing”** was jointly conducted by Wipro, Bangalore and HPC Center, Dept. of Studies in Computer Science, Manasagangotri, Mysore on 7<sup>th</sup> July 2015.
- Attended 2 days workshop on **“Dot Net Technologies”** organized by the Dept. of Computer Science, SBRR Mahajana First Grade College, Mysore on 13<sup>th</sup> and 14<sup>th</sup> July 2007.
- Attended workshop on **“Cyber Ethics and Cyber Security”** organized by the Dept. of Computer Science, SBRR Mahajana First Grade College jointly with Reliance World, Mysore on 16<sup>th</sup> September 2009.
- Attended two days workshop on **“Soft Skills”** organized by the Dept. Computer Science, SBRR Mahajana First Grade College jointly with Kaizen 4Front Technologies Pvt. Ltd, Mysore on 24<sup>th</sup> and 25<sup>th</sup> February 2010.
- Attended a workshop on **“Soft skill techniques”** conducted jointly by Mahajana First Grade College, Mysore and Career Forum, Mysore.
- Attended a workshop on **“Faculty Development Programme”** conducted by SBRR Mahajana First Grade College, Mysore on 14<sup>th</sup> May 2011.
- Conducted and attended the state level IT seminar on Networking held in October, 2011 at SBRR Mahajana First Grade College, Mysore.
- Attended Faculty development organized by KSOU & INFOSYS on 16<sup>th</sup>, 17<sup>th</sup> & 18 Feb 2012 at KSOU, Mysore.
- Attended the **Open lecture series on science** jointly conducted by Karnataka Science and Technology Academy and Mahajana First Grade College on 31<sup>st</sup> March 2012.
- Attended a special lecture on **Approach to Projects –Current Trends and Scope**. The speaker of the Lecture was Mr. Pandu Ranga Rao, CEO, ICAN Technologies, Mysore on 2<sup>nd</sup> August 2013.
- Attended a special lecture on **Programming Language Pragmatics** By, Dr. Manjunath S Associate Professor, JSS College OOTY Road, Mysore on 26<sup>th</sup> September 2013.
- Attended seminar cum workshop on **Higher Education-UGC interventions and curriculum Development for co-curricular Activities** on 10<sup>th</sup> May 2014.
- Attended a special lecture on **“Latest Trends in DBMS”** on **13<sup>th</sup> September 2014**, organized by the **Department Of Computer Science**, S.B.R.R Mahajana First Grade College, Mysore.
- Attended a faculty development program on **“Developing Teaching Skills”** on 7<sup>th</sup> Oct 2014, organized by the TQM and IQAC Cell, SBRR Mahajana First Grade College, Mysore.

- Attended a one day workshop on **“Effective Teaching and Learning to new Faculty”** on 7<sup>th</sup> Nov 2014, organized by the IQAC Cell, Malavalli First Grade College, Malavalli..
- Attended a one day Faculty Development on 9<sup>th</sup> Feb 2017 on **“Technical Softskills”** at St.Joseph’s Degree College.
- Attended Workshop on Capacity Building for Women Managers in Higher Education, 4<sup>th</sup> to 8<sup>th</sup> June, 2018
- Attended National Seminar on “Data Science” on 25<sup>th</sup> January, 2019 at MMK & SDM College, Mysuru

Organized Webinar on Android Technology conducted by SBRR Mahajana First Grade College, Mysuru

- Attended 10 days Online Workshop on PHP at MIT First Grade College, Mysuru from 15-06-2020
- Webinar on Artificial Neural Networks on conducted by JSS college of Arts, Commerce and Science, Mysuru on 8-06-2020
- Organized and Attended Webinar on Latex and its Applications conducted by SBRR Mahajana First Grade College, Mysuru on 19-08-2020
- Workshop on National Education Policy 2020 - Highlights and Way Forward for Higher Education Institutions held at MIT First Grade College, Mysuru on 15-03-2021
- Webinar on Recent Trends in Computer Vision and its Industrial Applications organized by Hindustan First Grade College on 21-05-2021
- International Webinar Yoga Day-2021 conducted by SBRR Mahajana First Grade College, Mysuru on 21-06-2021
- Webinar on Cyber Security In Covid-19 Era conducted by SBRR Mahajana First Grade College, Mysuru on 24-06-2021

#### **Any other contribution by the faculty in academics/society**

- Was BOE member for Computer Science Board UOM in the academic year 2012-13.
- Was BOE member for Commerce Board in the academic year 2012-13.
- Was a member in the Syllabus Revision committee for B.Sc and BCA in 2013.
- Worked as a convener for Internal Quality Assurance Cell(IQAC).
- BOE member for Computer Science Board, Govt.College(Autonomous), Mandya in the academic year 2016-17.

- Mrs. Shruthy Poonacha, BOE Member, Government Boys College (Autonomous), Mandya 2019-20.
- Mrs. Shruthy Poonacha, BOE Member, University of Mysore 2020.
- BOS Member, St. Philomenas College, Mysuru 2020-21
- BOE Member, University of Mysore 2020-21.
- BOE Member, St. Philomenas College, Mysuru 2020-21
- BOE member for Computer Science Board in Mandya College(Autonomous)the academic year 2018-19,2019-20.
- Worked as a convener for Internal Quality Assurance Cell(IQAC).
- Have been serving as internal guide to the students who are undergoing projects in the BCA course.
- BOS Member, St. Philomenas College, Mysuru 2020-21,2021-22
- BOE Member, Government Boys College (Autonomous), Mandya 2019-20.
- BOE Member, University of Mysore 2019-20,2020-21.
- BOE Member, St. Philomenas College, Mysuru 2020-21,2021-22
- Chairman, BoS SBRR Mahajana First Grade College (A), Mysuru
- Member of Cooperative Society, SBRR Mahajana First Grade College (A), Mysuru
- Member of Karnataka State Computer Science Teachers Association (KSCSTA)
- Member of SVAK (Swadeshi Vijnana Andolana-Karnataka) Unit of Vijnana Bharati.
- Convener for UUCMS , Worked for admissions and Academic Course registration Process.

**Mr. Manjunath K S**

Designation : Assistant Professor

Unique ID : 1-738092614



**Qualification: MCA**

- **Assistant Professor, Department of BCA SBRR Mahajana First Grade College, Mysore, Karnataka India.**
- 15 Years of Teaching Experience.

**Specialization:** Computer Networks, Software Engineering, Java Programming and Python Programming.

**Activities:**

- Working as a convener for the Swayam MOOCS and college website.
- Worked as a College time table convener.
- Guided More than 43 BCA program academic projects.
- Delivered Special Lectures.
- Worked as BOE member for University of Mysore for CS board and other Autonomous colleges.
- Worked as BOS member for MCA program, Mahajana Post graduate center Mysore.
- Worked as a coordinator for various seminars, workshops, quiz and Fest.
- BOS Chairman for BACHELOR OF COMPUTER APPLICATION COURSE (BCA) course.
- Worked as editorial board member for the college Magazine Mandara.



## 9 Fee:

- Details of Fee, as approved by State Fee Committee, for the Institution

| MCA                | I Year      |               | II Year     |               |
|--------------------|-------------|---------------|-------------|---------------|
|                    | Gov/UoM     | Mgmt          | Gov/UoM     | Mgmt          |
| Karnataka Students | Rs.90,000/- | Rs.1,00,000/- | Rs.90,000/- | Rs.1,00,000/- |

- Time schedule for payment of Fee for the entire Programme :  
Yearly. As per the admission calendar of Karnataka Examinations Authority (KEA) – PG CET.

## 10 Admission

- Number of seats sanctioned with the year of approval

| Year    | Sanctioned |
|---------|------------|
| 2022-23 | 60         |
| 2021-22 | 60         |
| 2020-21 | 60         |
| 2019-20 | 30         |
| 2018-19 | 30         |

- Number of Students admitted under various categories each year in the last three years

| Year    | GM | SC | ST | CAT 1 | 2A | 2B | 3A | 3B | TOTAL |
|---------|----|----|----|-------|----|----|----|----|-------|
| 2022-23 | 10 | 4  | 1  | 3     | 13 | 2  | 12 | 15 | 60    |
| 2021-22 | 6  | 4  | 2  | 1     | 14 | 3  | 22 | 8  | 60    |
| 2020-21 | 13 | 5  | 1  | 2     | 9  | 2  | 14 | 14 | 60    |

- Number of applications received during last two years for admission under Management Quota

| Year    | Applications Received | Admitted |
|---------|-----------------------|----------|
| 2022-23 | 33                    | 33       |
| 2021-22 | 36                    | 36       |

## **11 Admission Procedure :**

- **Admission Test being followed :**

- 1.1 PG CET, Karnataka Examinations Authority(KEA)

- 18th Cross, Sampige Road, Malleshwaram, BANGALORE-560 012
    - keaauthority-ka@nic.in, <https://kea.kar.nic.in>

- 1.2 KMAT, Karnataka Private Post Graduate Colleges' Association

- No. 64, Vastra Bhavan, 4th Main, Near 18th Cross, Malleshwaram, Bangalore 560055
    - [info@kmatindia.com](mailto:info@kmatindia.com), <https://kmatindia.com/>

- **Number of Seats Allotted :**

- Government Quota (PG CET) : 30
  - Management Quota (PG CET/KMAT) : 30

- **Calendar for admission against Management/vacant seats:**

**: As per KEA / KMAT admission schedule**

- Last date of request for applications : As per KEA admission schedule
  - Last date of submission of applications : As per KEA admission schedule
  - Dates for announcing final results : As per KEA admission schedule
  - Release of admission list : As per KEA admission schedule
  - Date for acceptance by the candidate : As per KEA admission schedule
  - Last date for closing of admission : As per KEA admission schedule
  - Starting of the Academic session : As per KEA admission schedule

## 12 Criteria and Weightages for Admission :

As per the Karnataka Examination Authority guidelines.

| MARKS SCORED BY MCA CANDIDATES ADMITTED UNDER GOVERNMENT QUOTA |                     |       |            |
|--|---------------------|-------|------------|
| Sl. No.  | Name of the Student | UG %  | PGCET Rank |
| 1  | Amulya J.M.         | 64.73 | 2097       |
| 2  | Anusha S.           | 85.56 | 3329       |
| 3  | Bhavani S.          | 76.84 | 4450       |
| 4  | Chethan T.N.        | 70.57 | 2420       |
| 5  | Deepak              | 67.27 | 4131       |
| 6  | Divyashree N.       | 76.47 | 3948       |
| 7  | Harshitha K.G.      | 72.70 | 2760       |
| 8  | Joji Verghese       | 73.33 | 2753       |
| 9  | Manoj Kumar N.S.    | 58.10 | 2490       |
| 10   | Meghana Sham H.     | 70.46 | 2796       |
| 11   | Neha R.             | 72.33 | 2396G33    |
| 12   | Ningaraja R.B.      | 65.63 | 9542       |
| 13   | Pavan Kumar K.P.    | 64.16 | 4697G55    |
| 14   | Prakruthi G.        | 68    | 3629G55    |
| 15   | Pranitha P.         | 73.37 | 3549G33    |
| 16   | Prashanth           | 83    | 3368       |
| 17   | Rachana P.          | 80    | 2995       |
| 18   | Rajesh G. Jujare    | 75.95 | 2342       |
| 19   | Sanjay H.M.         | 73.10 | 2756       |
| 20   | Siddarth H.R.       | 66.57 | 4675       |
| 21   | Soundarya M.B..     | 7.30  | 3612       |
| 22   | Sri Ragha Manju     | 90    | 3716       |
| 23   | Suhas K.L.          | 77    | 2690       |

|    |                  |       |      |
|----|------------------|-------|------|
| 24 | Suman M.         | 79.80 | 3419 |
| 25 | Varalakshmi H.D. | 68    | 3624 |
| 26 | Vignesh B.S.     | 91    | 2133 |
| 27 | Vyshnavi A.      | 80    | 3813 |

**MARKS SCORED BY MCA CANDIDATES ADMITTED UNDER MANAGEMENT QUOTA**

| <b>Sl. No.</b> | <b>Name of the Student</b> | <b>UG %</b> | <b>PGCET Rank /<br/>KMAT Percentile</b> |
|----------------|----------------------------|-------------|---|
| 1              | Abhishek S.                | 72.50       | 10336                                   |
| 2              | Annapoorna B               | 68.57       | 7925                                    |
| 3              | Ashwija L.A.               | 71.47       | 4578                                    |
| 4              | Bhumika K.N.               | 65.8        | 2090                                    |
| 5              | Chethan M.S.               | 76.20       | 7267                                    |
| 6              | Darshan R                  | 66          | 5269                                    |
| 7              | Darshini K.M.              | 52.40       | 10414                                   |
| 8              | Faizan Baig                | 92.54       | 5369                                    |
| 9              | Hamsa S.                   | 87.60       | 5399                                    |
| 10             | Hema N                     | 76.56       | 7753                                    |
| 11             | Inchara H.R.               | 72.49       | 4038                                    |
| 12             | Kavanashree M.             | 72.41       | 3549                                    |
| 13             | Kiran Kumar K.             | 70.51       | 8792                                    |
| 14             | Manoj Kumar P.             | 71.73       | 6289                                    |
| 15             | Manojkumar N.R.            | 69.25       | 5198                                    |
| 16             | Megha Anand                | 73.17       | 1032                                    |
| 17             | Nikitha S.                 | 89.45       | 1321                                    |
| 18             | Pooja P.                   | 7.02        | 8441                                    |

|    |                          |       |        |
|----|--------------------------|-------|--------|
| 19 | Priya M N                | 75.36 | 5048   |
| 20 | Rakesh T.                | 53.20 | 10698  |
| 21 | Ramu H.S.                | 7.45  | 10453  |
| 22 | S. Darshan               | 70.69 | 8355   |
| 23 | Sharath B. Y.            | 7.26  | 9134   |
| 24 | Shashank D.S.            | 56    | 5352   |
| 25 | Sibtainali A. Bhavnagary | 84    | 5985   |
| 26 | Smruthi Ranjan Pradhan   | 78    | 6103   |
| 27 | Spoorthi K.              | 82.23 | 8203   |
| 28 | Sree Parvathi Sivan      | 74.23 | 28.096 |
| 29 | Swathi D.P.              | 73    | 3159   |
| 30 | Tejaswini N.             | 77.97 | 4429   |
| 31 | Varshitha R.             | 81    | 6624   |
| 32 | Vijay                    | 8.01  | 9657   |
| 33 | Vyshnavi S.              | 50    | 4213   |

### 13 List of Applicants

- List of candidate whose applications have been received along with percentile/percentages core for each of the qualifying examination in separate categories for open seats. List of candidate who have applied along with percentage and percentile score for Management quota seats (merit wise)

| <b><u>LIST OF APPLICANTS UNDER GOVERNMENT QUOTA</u></b> |                            |             |                   |
|---|----------------------------|-------------|-------------------|
| <b>Sl. No.</b>  | <b>Name of the Student</b> | <b>UG %</b> | <b>PGCET Rank</b> |
| 1   | Amulya J.M.                | 64.73       | 2097              |
| 2   | Anusha S.                  | 85.56       | 3329              |
| 3   | Bhavani S.                 | 76.84       | 4450              |
| 4   | Chethan T.N.               | 70.57       | 2420              |
| 5   | Deepak                     | 67.27       | 4131              |
| 6   | Divyashree N.              | 76.47       | 3948              |
| 7   | Harshitha K.G.             | 72.70       | 2760              |
| 8   | Joji Verghese              | 73.33       | 2753              |
| 9   | Manoj Kumar N.S.           | 58.10       | 2490              |
| 10  | Meghana Sham H.            | 70.46       | 2796              |
| 11  | Neha R.                    | 72.33       | 2396G33           |
| 12  | Ningaraja R.B.             | 65.63       | 9542              |
| 13  | Pavan Kumar K.P.           | 64.16       | 4697G55           |
| 14  | Prakruthi G.               | 68          | 3629G55           |
| 15  | Pranitha P.                | 73.37       | 3549G33           |
| 16  | Prashanth                  | 83          | 3368              |
| 17  | Rachana P.                 | 80          | 2995              |
| 18  | Rajesh G. Jujare           | 75.95       | 2342              |
| 19  | Sanjay H.M.                | 73.10       | 2756              |
| 20  | Siddarth H.R.              | 66.57       | 4675              |
| 21  | Soundarya M.B..            | 7.30        | 3612              |

|    |                  |       |      |
|----|------------------|-------|------|
| 22 | Sri Ragha Manju  | 90    | 3716 |
| 23 | Suhas K.L.       | 77    | 2690 |
| 24 | Suman M.         | 79.80 | 3419 |
| 25 | Varalakshmi H.D. | 68    | 3624 |
| 26 | Vignesh B.S.     | 91    | 2133 |
| 27 | Vyshnavi A.      | 80    | 3813 |

**LIST OF APPLICANTS UNDER MANAGEMENT QUOTA**

| <b>Sl. No.</b> | <b>Name of the Student</b> | <b>UG %</b> | <b>PGCET Rank /<br/>KMAT Percentile</b> |
|----------------|----------------------------|-------------|---|
| 1              | Abhishek S.                | 72.50       | 10336                                   |
| 2              | Annapoorna B               | 68.57       | 7925                                    |
| 3              | Ashwija L.A.               | 71.47       | 4578                                    |
| 4              | Bhumika K.N.               | 65.8        | 2090                                    |
| 5              | Chethan M.S.               | 76.20       | 7267                                    |
| 6              | Darshan R                  | 66          | 5269                                    |
| 7              | Darshini K.M.              | 52.40       | 10414                                   |
| 8              | Faizan Baig                | 92.54       | 5369                                    |
| 9              | Hamsa S.                   | 87.60       | 5399                                    |
| 10             | Hema N                     | 76.56       | 7753                                    |
| 11             | Inchara H.R.               | 72.49       | 4038                                    |
| 12             | Kavanashree M.             | 72.41       | 3549                                    |
| 13             | Kiran Kumar K.             | 70.51       | 8792                                    |
| 14             | Manoj Kumar P.             | 71.73       | 6289                                    |
| 15             | Manojkumar N.R.            | 69.25       | 5198                                    |
| 16             | Megha Anand                | 73.17       | 1032                                    |

|    |                          |       |        |
|----|--------------------------|-------|--------|
| 17 | Nikitha S.               | 89.45 | 1321   |
| 18 | Pooja P.                 | 7.02  | 8441   |
| 19 | Priya M N                | 75.36 | 5048   |
| 20 | Rakesh T.                | 53.20 | 10698  |
| 21 | Ramu H.S.                | 7.45  | 10453  |
| 22 | S. Darshan               | 70.69 | 8355   |
| 23 | Sharath B. Y.            | 7.26  | 9134   |
| 24 | Shashank D.S.            | 56    | 5352   |
| 25 | Sibtainali A. Bhavnagary | 84    | 5985   |
| 26 | Smruthi Ranjan Pradhan   | 78    | 6103   |
| 27 | Spoorthi K.              | 82.23 | 8203   |
| 28 | Sree Parvathi Sivan      | 74.23 | 28.096 |
| 29 | Swathi D.P.              | 73    | 3159   |
| 30 | Tejaswini N.             | 77.97 | 4429   |
| 31 | Varshitha R.             | 81    | 6624   |
| 32 | Vijay                    | 8.01  | 9657   |
| 33 | Vyshnavi S.              | 50    | 4213   |



## 14 Results of Admission Under Management seats/Vacant seats

- Composition of selection team for admission under Management Quota with the brief profile of members
  - Dr. C.K. Renukarya , Director, PG Wing of SBRR Mahajana First Grade College.
  - Mrs. Rachana C R, Associate Professor & Head, DoS in Computer Science.
  - Mr. Harish Machia Kodandera, Adjunct Professor and Head, DoS in Business Administration.
- Score of the individual candidate admitted arranged in order of merit & List of candidate who have been offered admission

| <b><u>LIST OF APPLICANTS ADMITTED UNDER MANAGEMENT QUOTA</u></b> |                            |             |                                   |
|--|----------------------------|-------------|-----------------------------------|
| <b>Sl. No.</b>   | <b>Name of the Student</b> | <b>UG %</b> | <b>KEA Rank / KMAT Percentile</b> |
| 1  | Abhishek S.                | 72.50       | 10336                             |
| 2  | Annapoorna B               | 68.57       | 7925                              |
| 3  | Ashwija L.A.               | 71.47       | 4578                              |
| 4  | Bhumika K.N.               | 65.8        | 2090                              |
| 5  | Chethan M.S.               | 76.20       | 7267                              |
| 6  | Darshan R                  | 66          | 5269                              |
| 7  | Darshini K.M.              | 52.40       | 10414                             |
| 8  | Faizan Baig                | 92.54       | 5369                              |
| 9  | Hamsa S.                   | 87.60       | 5399                              |
| 10   | Hema N                     | 76.56       | 7753                              |
| 11   | Inchara H.R.               | 72.49       | 4038                              |
| 12   | Kavanashree M.             | 72.41       | 3549                              |
| 13   | Kiran Kumar K.             | 70.51       | 8792                              |
| 14   | Manoj Kumar P.             | 71.73       | 6289                              |
| 15   | Manojkumar N.R.            | 69.25       | 5198                              |

|    |                          |       |        |
|----|--------------------------|-------|--------|
| 16 | Megha Anand              | 73.17 | 1032   |
| 17 | Nikitha S.               | 89.45 | 1321   |
| 18 | Pooja P.                 | 7.02  | 8441   |
| 19 | Priya M N                | 75.36 | 5048   |
| 20 | Rakesh T.                | 53.20 | 10698  |
| 21 | Ramu H.S.                | 7.45  | 10453  |
| 22 | S. Darshan               | 70.69 | 8355   |
| 23 | Sharath B. Y.            | 7.26  | 9134   |
| 24 | Shashank D.S.            | 56    | 5352   |
| 25 | Sibtainali A. Bhavnagary | 84    | 5985   |
| 26 | Smruthi Ranjan Pradhan   | 78    | 6103   |
| 27 | Spoorthi K.              | 82.23 | 8203   |
| 28 | Sree Parvathi Sivan      | 74.23 | 28.096 |
| 29 | Swathi D.P.              | 73    | 3159   |
| 30 | Tejaswini N.             | 77.97 | 4429   |
| 31 | Varshitha R.             | 81    | 6624   |
| 32 | Vijay                    | 8.01  | 9657   |
| 33 | Vyshnavi S.              | 50    | 4213   |

## 15 Information of Infrastructure and Other Resources Available

| Information of Infrastructure and Other Resources Available             |   |                         |
|---|---|-------------------------|
| Number of Class rooms and size of each                                  | SCR-A1  | 76 sq. m                |
|   | SCR-A2  | 76 sq. m                |
|   | SCR-A3  | 76 sq. m                |
| Number of Tutorial rooms and size of each                               | TCR-A3  | 48 sq. m                |
|   | TCR-A4  | 47 sq. m                |
| Number of Laboratories and size of each                                 | LAB-1   | 88 sq. m                |
|   | LAB-2   | 88 sq. m                |
|   | LAB-3   | 87 sq. m                |
|   | LAB-4   | 85 sq. m                |
| Number of Drawing Halls with capacity of each                           | No  |                         |
| Number of Computer Centres with capacity of each                        | 1   | 189 sq. m               |
| Central Examination Facility, Number of rooms and capacity of each      | <b>Rooms</b>  | <b>Capacity of each</b> |
|   | 10  | 30                      |
| Online examination facility (Number of Nodes, Internet bandwidth, etc.) | No  |                         |
| Barrier Free Built Environment for disabled and elderly persons         | Yes   |                         |
| Hostel Facilities   | Girls student hostel available in Post Graduate Wing Campus. Boys student hostel available in the Under Graduate Wing campus. |                         |

• Occupancy Certificate



ಕಾರ್ಯದರ್ಶಿ  
Cell : 9686677938

## ಸಿದ್ಧಲಿಂಗಪುರ ಗ್ರಾಮ ಪಂಚಾಯಿತಿ ಕಾರ್ಯಾಲಯ


ಸಿದ್ಧಲಿಂಗಪುರ, ಮೈಸೂರು ತಾಲ್ಲೂಕು

ಸಿ. ಗ್ರಾ. ಪಂ. ನಂ. 3.41/09-10

ದಿನಾಂಕ : 10.02.2010

### POSSESSION CERTIFICATE

The Possession In Survey Nos. 21( C Part ) , 24/2A1(Part),24/2A2, 24/2/B (part), 27/1 (Part), 27/2 , 27/d (Part) , 27/4 , 27 /5 (Part) of Mysore Industrial Area situated at Metagalli , KRS Road , Mysore – 570016. has been handed over to Mahajana Education Society® by M/s. Kasturi Foods and Chemicals Limited on 26/02/2002.

  
Panchayat Development Officer  
ಸಿದ್ಧಲಿಂಗಪುರ ಗ್ರಾಮ ಪಂಚಾಯಿತಿ  
ಮೈಸೂರು ತಾಲ್ಲೂಕು

  
President  
  
Hon-Secretary  
MAHAJANA EDUCATION SOCIETY (Regd.)  
Jayalakshmipuram, Mysore-570 012.

• Fire and Safety Certificate

No:02/DFO(F.P)/HFS/MY/RCC/2023-24

Office of the District Fire Officer  
Fire Prevention & Protection  
Karnataka Fire & Emergency Services  
Hebbal Fire Station, Mysore - 570 016  
Date: 21.04.2023

To,  
The Director  
SBRR Mahajana F.G.College (Autonomous)  
Post Graduate Wing  
PBM Mahajana Education Center  
K.R.S Road, Metagalli, Mysuru.

Sir,

Sub:- Issue Renewal of Fire Safety Compliance certificate with respect to fire prevention, Fighting and evacuation measures maintained/required at "SBRR Mahajana F.G.College (Autonomous) Post Graduate Wing", PBM Mahajana Education Center, K.R.S Road, Metagalli, Mysuru.

Ref:- 1. No.14/F&SR/CFO/MZ/2019, dated: 12-02-2019.  
2. C.C.Renewal No.05/CFO//MZ/CC/2021-22, dated: 10-04-2021.  
3. Your request letter dated: 27-03-2023.

\*\*\*\*\*

With reference to the above cited subject, as per reference (1) a Fire Safety Recommendations Certificate was issued to the School management for the observations are rectified within 90 days.

As per reference (2) the School management rectified the observations and other requirements and 'Renewal of Fire Safety Compliance Certificate' was issued.

Now as per reference (3) the School management submitted letter and requested for Renewal of Fire Safety Compliance Certificate.

In this regard 'SBRR Mahajana F.G.College (Autonomous)' Post Graduate Wing, PBM Mahajana Education Center, K.R.S Road, Metagalli, Mysuru was re-inspected by me on 29-03-2023 found that the School Management has been fulfilled the fire fighting systems and the fire fighting systems are in good working condition during my inspection.

Hence, herewith issuing 'Renewal of Fire Safety Compliance Certificate' for the functioning of 'SBRR Mahajana F.G.College (Autonomous)' Post Graduate Wing, PBM Mahajana Education Center, building at K.R.S Road, Metagalli, Mysuru from fire prevention, fire fighting and evacuation point of view. This Renewal of 'Fire Safety Compliance Certificate' valid 20-04-2024 and is renewable.

VIJAYALAKSHMI  
Digitally signed by  
VIJAYALAKSHMI  
MURALIDHAR  
Date: 2023.04.24  
15:23:02 +05'30'

Yours faithfully

  
District Fire Officer 21/04/23  
Fire Prevention & Protection  
Hebbal Fire Station  
Mysore - 570 016

Copy to, with due respect,

The Director general Of Police And Director General,  
Karnataka Fire and Emergency Services, Bangalore-560042

- **Library**

- Number of Library books/ Titles/ Journals available (Programme-wise)

| Programme | Volumes | Titles | Journals available |
|-----------|---------|--------|--------------------|
| MCA       | 6062    | 2637   | 19                 |

- List of online National/ International Journals subscribed : J-GATE, N-LIST, DELNET
- National Digital Library (NDL) Membership Number : INKNC34KOWMGAZ

- **Laboratory and Workshop**

- List of Major Equipment/Facilities in each Laboratory:
  - Server, Computer Systems, Projector, Projector Screen, Printer, Scanner, Online UPS, Stabilizer & AC

- **Computing Facilities**

|  |                 |
|--|-----------------|
| <b>Internet Bandwidth</b>  | <b>300 MBPS</b> |
| <b>Configuration of System</b>                                       | <b>Number</b>   |
| ML350G5 PROCESSOR-XEON 2.33 GHz, 2 GB RAMS, HARD DISK-250 GB.        | <b>2</b>        |
| DELL System- Processor = Core i5, 3.0 GHz, HDD = 500 GB, RAM = 8 GB  | <b>30</b>       |
| DELL System- Processor = Core i5, 3.60 GHz, HDD=256 GB, RAM = 8 GB   | <b>20</b>       |
| DELL System- Processor = Core i7, 3.60 GHz, HDD=256 GB, RAM = 8 GB   | <b>70</b>       |
| Acer System Processor = Core i3, 3 GHz, HDD = 500GB, RAM = 4 GB, LCD | <b>8</b>        |
| HCL System Processor = CORE i3 , HDD = 320 GB, RAM = 4 GB            | <b>1</b>        |
| Dell System Processor = Core i3, 3.60 GHz, HDD = 1 TB, RAM = 4 GB    | <b>1</b>        |
| Total number of system connected by LAN                              | <b>132</b>      |
| Total number of system connected by WAN                              | <b>132</b>      |

| Major software packages available  |                         |             |
|--|-------------------------|-------------|
| SI No.   | SOFTWARE                | No. Of CD'S |
| 1  | BORLAND TURBO C++ SUITE | 15          |
| 2  | MICROSOFT OFFICE 2007   | 165         |
| 3  | MICROSOFT OFFICE 2010   | 33          |
| 4  | VISUAL STUDIO 2010      | 30          |
| 5  | VISUAL STUDIO 2002      | 1           |
| 6  | WINDOWS SERVER 2003     | 1           |
| 7  | WINDOWS SERVER 2008     | 3           |
| 8  | MICROSOFT WINDOWS VISTA | 165         |
| 9  | MICROSOFT WINDOWS XP    | 10          |
| 10   | MICROSOFT WINDOWS 7     | 23          |
| 11   | ORACLE                  | 1           |
| 12   | REDHAT                  | 45          |
| 13   | SMART DRAW              | 30          |
| 14   | WINPROXY                | 25          |
| 15   | MICROSOFT WINDOWS 10    | 40          |
| Special purpose facilities available (Conduct of online Meetings/ Webinars /Workshops, etc.) |                         | Yes         |
| Facilities for conduct of classes/courses in online mode (Theory & Practical)                |                         | Yes         |

• **Innovation Cell :**

- New Age Innovation Network (NAIN) – District Innovation Hub (DIH), launched under KITS, Government of Karnataka.

- **Games and Sports Facilities**

- Volley Ball court (clay) x1
- Shuttle Batminton court (indoor) x2
- Lawn Tennis court (cement) x1
- Basket Ball court (cement) x1
- Table Tennis board x2
- Carrom board x2

- **Teaching Learning Process**

- **Curriculum and syllabus :**

**Refer to Appendix 1 (Page No. 1-82)**



• Academic Calendar :

**S.B.R.R.M.F.G.C./.....111/2023 24**  
*over 25/04/23*  
 Mahajana Education Society (R)  
**SBRR Mahajana First Grade College (Autonomous)**  
 Affiliated to University of Mysore  
 Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence  
**Post Graduate Wing**  
**Pooja Bhagavat Memorial Mahajana Education Centre**  
 KRS Road, Metagalli, Mysuru - 570 016, Karnataka  
**EXAMINATION SECTION**

Date: 24/04/2023

**Academic Calendar for 1 year Post Graduate Programs for the Academic year 2022 -23**

| Sl. No. | Particulars                             | I Semester<br>(MSC, MCOM, MSW) | I Semester<br>(MBA, MCA) |
|---------|---|--------------------------------|--------------------------|
| 1       | Commencement of First semester classes  | 23/01/2023                     | 23/02/2023               |
| 2       | End of First semester classes           | 13/05/2023                     | 14/06/2023               |
| 4       | Commencement of Examination             | 22/05/2023                     | 19/06/2023               |
|         |   | <b>II Semester</b>             |                          |
| 5       | Commencement of Second semester classes | 12/06/2023                     | 10/07/2023               |
| 6       | End of Second semester classes          | 30/09/2023                     | 04/11/2023               |
| 8       | Commencement of Examination             | 09/10/2023                     | 16/11/2023               |
| 9       | Commencement of Third semester classes  | 20/11/2023                     | 27/11/2023               |

**Note:** 1. If a particular day is declared holiday or happens to be holiday then the corresponding event will be in to effect on the next working day.  
 2. Notification regarding Calendar of events relating to the conduct of Examinations will be issued by the Controller of Examination from time to time.

**DEAN - ACADEMICS**  
**DR. SREEDHARA. H.**  
 DEAN-ACADEMICS

**PRINCIPAL**  
**PRINCIPAL**

Copy to:

- Hon. Secretary, MES
- Administrative Officer, MES
- MES Office
- Principal's Office
- Director, PG Centre
- Office of the Controller of Examination
- Examination section - UG

To Notice Board  
**DIRECTOR**  
**SBRR MAHAJANA F.G. COLLEGE**  
 (Autonomous)  
**POST GRADUATE WING**  
**PBM MAHAJANA EDN. CENTRE**  
 KRS Rd., Metagalli, MYS-570016

- Internal Continuous Evaluation System and place : Yes
- Student's assessment of Faculty, System in place : Yes

• **Academic Time Table :**

SBRR Mahajana First Grade College (Autonomous), PG Wing  
REVISED TIMETABLE OF I SEM MCA and MSc Computer Science  
w.e.f. 12th April - 2023

| Time / Day       | CLASS        | 10:30 to 11:30 am | 11:30 am - 12:30 pm | 12:30 to 1:30 pm | 1:30 pm - 2 pm  | 2 pm - 3 pm             | 3 - 4 pm |
|------------------|--------------|-------------------|---------------------|------------------|---|-------------------------|----------|
| <b>Monday</b>    | <b>I MCA</b> | OS (SD)           | SE (LMM)            | CS(RCR)          | <b>L<br/>U<br/>N<br/>C<br/>H<br/><br/>B<br/>R<br/>E<br/>A<br/>K</b> | DS & A LAB B1 (AK, LMM) |          |
|                  | <b>I MSc</b> | ADS (AK)          | DMS (YJ)            | JP (HBB)         |   | DT LAB (EPA)            |          |
| <b>Tuesday</b>   | <b>I MCA</b> | OS (SD)           | SE (LMM)            | CS(RCR)          |   | DS & A LAB B2 (AK, LMM) |          |
|                  | <b>I MSc</b> | JP (HBB)          | DMS (YJ)            | DT (EPA)         |   | JP LAB (HBB)            |          |
| <b>Wednesday</b> | <b>I MCA</b> | SE (LMM)          | OS (SD)             | DS & A (AK)      |   |                         |          |
|                  | <b>I MSc</b> | ADS (AK)          | DT (EPA)            | WT (LMM)         |   | WT LAB (LMM)            |          |
| <b>Thursday</b>  | <b>I MCA</b> | DS & A (AK)       | OS (SD)             | CS(RCR)          |   |                         |          |
|                  | <b>I MSc</b> | DT (EPA)          | WT (LMM)            | ADS (AK)         |   | JP (HBB)                |          |
| <b>Friday</b>    | <b>I MCA</b> | SE (LMM)          | DS & A (AK)         | CS(RCR)          |   |                         |          |
|                  | <b>I MSc</b> | ADS (AK)          | DMS (YJ)            | DMS (EPA)        |   | WT (LMM)                |          |

| Course | I MCA                            | Faculty          |
|--------|----------------------------------|------------------|
| DS&A   | Data Structures and Algorithms   | Dr. Anisha Kumar |
| SE     | Software Engineering             | Ms. Likhitha M M |
| CS     | Communication Skills (Soft Core) | Smt. Rachana C R |
| OS     | Operating System                 | Smt. Shobha D    |

| Course | I M.Sc.(CS)                      | Faculty                                     |
|--------|----------------------------------|---|
| DMS    | Discrete Mathematical Structures | Smt. Yashaswini J & Mrs. R Eswin Pria Angel |
| ADS    | Advanced Data Structures         | Dr. Anisha Kumar                            |
| DT     | Database Technologies            | Mrs. R Eswin Pria Angel                     |
| JP     | Java Programming (Soft Core)     | Sri. Basanth Kumar H B                      |
| WT     | Web Technologies (Soft Core)     | Ms. Likhitha M M                            |

## 16 Enrollment and Placement details of Students in the last 3 years

| Year of Passing | No. of Students Enrolled | No. of Students Placed |
|-----------------|--------------------------|------------------------|
| 2022            | 77                       | 50                     |
| 2021            | 30                       | 20                     |
| 2020            | 30                       | 18                     |

**17 List of Research Projects / Consultancy Works/ MoUs with Industries:**  
**MOU's signed by DOS in Computer Science,**  
**SBRR Mahajana First Grade College, PG Wing**

| <b>Sl. No</b> | <b>MOU with</b>                                    | <b>Address and Contact No</b>   | <b>Purpose of MOU</b>  | <b>Date of MOU</b>             |
|---------------|--|---|--|--------------------------------|
| 1             | iQuest Technologies                                | No 331 – B, KIADB Hebbal Industrial Area, Opp . Infosys Gate #2, Mysore-570016<br>Ph No:96861 44882         | To conduct skill development and software training programs.   | 01 <sup>st</sup> December 2015 |
| 2             | Intrella Technologies and Services Private Limited | #103 MIG, Kamakshi Hospital Rd, Block I, Ramakrishnanagar, Mysuru, Karnataka 570023<br>Ph No: 090364 53696  | Aim of providing Internship opportunities and Outcome based trainings for the students   | 01 <sup>st</sup> January 2016  |
| 3             | Adamos Technologies                                | #128/B, 'N Kuvempu Nagara Police Station, , Mysuru, Karnataka 570023<br>Ph No:072044 72729                  | To Provide internship opportunities to the students  | 01 <sup>st</sup> February 2017 |
| 4             | Ecclesia Advanced Computer Technology              | 9th Cross Rd, Vani Vilas Mohalla, Mysuru, Karnataka 570002<br>Ph No: 088840 18883                           | Aim of enhancing knowledge, skill and employability of students  | 01 <sup>st</sup> January 2019  |
| 5             | Sunyeka System Partner                             | #1530, A & B Block, Kuvempu Nagara, Mysuru, Karnataka 570022<br>Ph No:0821 419 4068                         | Establish mutually beneficial links with the aim of Skill development, outcome based Trainings and related services for the students   | 02 <sup>nd</sup> January 2019  |
| 6             | Red Hat India Private Limited                      | 4W65+MM9, Hiranandani Gardens, Powai, Mumbai, Maharashtra 400076<br>Ph No:02239878888                       | Authorised to Participate in various Red Hat Partner Programs like training and Certifications   | 7 <sup>th</sup> August 2020    |
| 7             | Institute of Analytics                             | A-3, Green Inns, 104, Annai Velankenni Road, Besant Nagar, Chennai, Tamil Nadu 600090<br>Ph No:090478 28833 | To Develop academic & educational co-operation and to participate in various certified courses on Big Data and Artificial Intelligence | 1 <sup>st</sup> April 2021     |

|    |                           |  |  |                                |
|----|---------------------------|--|--|--------------------------------|
| 8  | Uniprofilers Pvt Ltd      | No.383 1 <sup>st</sup> Floor, 7 <sup>th</sup> Main, Padmanabha Nagar, Bengaluru  | To Conduct pre-placement interactive session and assist students to build their better resumes and Profile   | 3 <sup>rd</sup> March 2022     |
| 9  | e2eHiring                 | Flat No 312, 2 <sup>nd</sup> Block, Samhita Green Woods Apartments, Thubarahalli, Bengaluru 560066   | A Supportive recruitment program for students looking for placements   | 18 <sup>th</sup> March 2022    |
| 10 | Skill Academy by Testbook | 1st and 2nd Floor, Zion Building, Plot no. 273, Sector No. 10, Kharghar, Navi Mumbai, Raigarh, Maharashtra - 410210.<br><br>PAN: AASCS8515R and CIN: U722OOMH2O13PTC247718 | <p>1. Complete Preparation for Job &amp; Internship - Activities for a period of 1" year which would include Live Aptitude Tests &amp; Company Specific Mock Tests.</p> <p>2. Live Bootcamp from Top industry Experts (Minimum of 25)</p> <p>3. Free Access to all the content under Testbook Pass for a period of 1 month</p> <p>4. Chance to get internships &amp; full-time job opportunities through various competitions.</p> | 10 <sup>th</sup> November 2022 |

|    |  |  |  |                                  |
|----|--|--|--|----------------------------------|
| 11 | STARTUP<br>GRIT<br>BUSINESS<br>CIRCLES<br>PRIVATE<br>LIMITED | N-119 1st Floor Manipal Centre<br>North Block Dickenson Road<br>Bangalore Bangalore KA 560042,<br>INDIA<br><br>CIN:U74999KA2020PTC141207 | <p>1. Conduction of at least 2 training Programs (with hands on sessions) for the students using latest tools in the areas of Cloud Computing, VLSI, IoT, Web Development, etc.,</p> <p>2. To organize industrial visits for the PG Students.</p> <p>3. To provide internship for the PG students.</p> <p>4. To assist PG Students in placement.</p> <p>5. To deliver technical talks to students.</p> | 12 <sup>th</sup> January<br>2023 |
|----|--|--|--|----------------------------------|

**18 LoA and subsequent EoA till the current Academic Year**

**Refer to Appendix 2 (Page No. 1-57)**

**19 Accounted audited statement for the last three years**

**Refer to Appendix 3 (Page No. 1-16)**

## **20 Appendix 1 : Course Structure and Syllabi for MCA Programme with effect from 2022-23**



**SBRR Mahajana First Grade College (Autonomous), PG Wing**

Pooja Bhagavat Memorial Mahajana Education Centre

KRS Road, Metagalli, Mysuru-570016.

**MOTTO**

Enter to Learn Depart to Serve

**VISION**

Build a Strong Research and Teaching Environment that Responds Swiftly to the Challenges of the 21<sup>st</sup> Century.

**MISSION**

1. To provide the highest quality education in Computer Science;
2. To perform research that advances the state-of-the-art in Computer Science;
3. To produce post graduates who are knowledgeable, articulate, principled, innovative, confident, and able to think critically;
4. To be engaged in local, State, and National issues to the benefit of both public and the private sector; and
5. To maintain a diverse college community.

SBRR Mahajana First Grade College (Autonomous), PG Wing

Pooja Bhagavat Memorial Mahajana Education Centre

KRS Road, Metagalli, Mysuru-570016

## Master of Computer Application - Regulations

2022-2023

### Preamble

Mahajana Post Graduate Centre is an exclusive PG wing of SBRR Mahajana First Grade College (Autonomous). The centre happens to be the largest PG Centre affiliated to University of Mysore.

It was established in July 2003 with the motto “Enter to Learn, Depart to Serve”. The Centre is affiliated to University of Mysore and offers Post Graduation programmes in the areas of direct relevance and value to the current generation of students. The Centre offers Post Graduate degree in 12 disciplines and is poised to start new programmes in the years to come.

M.C.A. was started in the year 1999. It is a four semester full-time programme. The course is approved by University Grants Commission and affiliated to the University of Mysore. MCA programme is accredited by All India Council for Technical Education (AICTE).

### 1. Definitions

#### *Course*

Every course offered will have three components associated with the teaching-learning process of the course, namely

(i) Lecture – L (ii) Tutorial- T (iii) Practical - P, where

L stands Lecture session. T stands Tutorial session consisting participatory discussion

/ self study/ desk work/ brief seminar presentations by students and such other novel methods that make a student to absorb and assimilate more effectively the contents delivered in the Lecture classes.

P stands Practice session and it consists of Hands on experience / Laboratory Experiments / Field Studies / Case studies that equip students to acquire the much required skill component.

In terms of credits, every one hour session of L amounts to 1 credit per semester and a minimum of two hour session of T or P amounts to 1 credit per semester, over a period of one semester of 16 weeks for teaching-learning process. The total duration of a semester is 20 weeks inclusive of semester-end examination.

A course shall have either or all the three components. That means a course may have only lecture component, or only practical component or combination of any two or all the three components.

The total credits earned by a student at the end of the semester upon successfully completing the course are L + T + P. The credit pattern of the course is indicated as

L: T: P.

If a course is of 4 credits then the different credit distribution patterns in L: T: P format could be

4 : 0 : 0,      1 : 2 : 1,      1 : 1 : 2,      1 : 0 : 3,      1 : 3 : 0,  
 2 : 1 : 1,      2 : 2 : 0,      2 : 0 : 2,      3 : 1 : 0,      3 : 0 : 1,  
 0 : 2 : 2,      0 : 4 : 0,      0 : 0 : 4,      0 : 1 : 3,      0 : 3 : 1,

***The concerned BoS will choose the convenient credit pattern for every course based on the requirement. However, generally, a course shall be of 3 or 4 credits.***

Different courses of study are labelled and defined as follows:

### ***Core Course***

A course which should compulsorily be studied by a candidate as a core requirement is termed as a Core course.

A Core course may be a **Soft Core** if there is a choice or an option for the candidate to choose a course from a pool of courses from the main discipline / subject of study or from a sister/related discipline / subject which supports the main discipline / subject. In contrast to the phrase Soft Core, a compulsory core course is called a **Hard Core** Course.

### ***Elective Course***

Generally a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline / subject of study or which provides an extended scope or which enables an exposure to some other discipline / subject/domain or nurtures the candidate's proficiency/ skill is called an Elective Course. Elective courses may be offered by the main discipline/ subject of study or by sister / related discipline / subject of study. A Soft Core course may also be considered as an elective.

An elective course chosen generally from an unrelated discipline / subject, with an intention to seek exposure is called an **open elective**.

An elective course designed to acquire a special/advanced knowledge, such as supplement study/support study to a project work, and a candidate studies such a course on his own with an advisory support by a teacher is called a **Self Study**.

A core course offered in a discipline / subject may be treated as an elective by other discipline / subject and vice versa.

Project work/Dissertation work is a special course involving application of knowledge in solving / analyzing /exploring a real life situation / difficult problem. A project work up to 4 credits is called Minor Project work. A project work of 6 to 8 credits is called Major Project Work. Dissertation work can be of 10-12 credits. A Project work/Dissertation work may be a hard core or a soft core as decided by the BoS concerned.

## **2. Eligibility for Admission**

Candidates possessing a degree of University of Mysore, or of any other University, equivalent there to and complying with the eligibility criteria:

Passed BCA/ Bachelor Degree in Computer Science Engineering or equivalent Degree. **OR**  
 Passed B.Sc./ B.Com./ B.A. with Mathematics at 10+2 Level or at Graduation Level (with additional bridge Courses as per the norms of the concerned University).

Admission to MCA course shall be open for candidates who have passed the Bachelor degree examinations with not less than 50% of the marks in the aggregate of all the years of the Degree examinations. However, in the case of candidates from Karnataka belonging to SC/ST and Category-I, the aggregate percentage of marks in the qualifying examinations shall not be less than 45%. Provided that for admission to MCA, the candidate shall have passed Bachelor Degree with not less than 50% of marks with Mathematics / Statistics / Computer Science / Computer Programming / Computer Application / Business Mathematics / Business Statistics as one of the optional or electives at degree level. Provided further that in respect of candidates who have studied and passed one of the subjects specified in the first proviso in the Pre-university course with 50% of marks in that subject shall also be considered for admission.

However, in the case of candidates belonging to SC/ST and Category-I, 45% of marks in that subject shall also be considered for admission.

### 3. Scheme of Instructions

- 3.1 A Masters Degree program is of 4 semesters-two year's duration for regular candidates. A regular candidate can avail a maximum of 8 semesters – 4 years (in one stretch) to complete Masters Degree (including blank semesters, if any). Whenever a candidate opts for blank semester(s)/DROP in a course or in courses or is compelled to DROP a course or courses as per the provision of the regulation, he/she has to study the prevailing courses offered by the department as per the prevailing scheme, when he/she continues his/her study.
- 3.2 A candidate has to earn a minimum of 80 credits, for successful completion of a Master's degree with a distribution of credits for different courses as given in the following table.

| Course Type   | Credits                           |
|---------------|-----------------------------------|
| Hard Core     | 44                                |
| Soft Core     | A minimum of 28, not exceeding 32 |
| Open Elective | A minimum of 4, not exceeding 8   |

Every course including project work/Dissertation work, practical work, field work, seminar, self study elective should be entitled as hard core or soft core or open elective by the BoS concerned.

- 3.3 A candidate can enroll for a maximum of 24 credits per semester with the approval of the concerned department.

### 4. Continuous Assessment, Earning of Credits and Award of Grades

The evaluation of the candidate shall be based on continuous assessment. The Structure for evaluation is as follows:

- 4.1 Assessment and evaluation processes happen in a continuous mode. However, for reporting purposes, a semester is divided into 3 discrete components identified as C1, C2, and C3.

4.2 The performance of a candidate in a course will be assessed for a maximum of 100 marks as explained below:

4.2.1 The first component (C1), of assessment is for 25 marks. This will be based on test/ assignment/seminar/quiz/group discussions. During the first half of the semester, the first 50% of the syllabus will be completed. This shall be consolidated during the 8<sup>th</sup> week of the semester. Beyond 8<sup>th</sup> week, making changes in C1 is not permitted.

4.2.2 The second component (C2), of assessment is for 25 marks. This will be based on test/ assignment/seminar/quiz/group discussions. The continuous assessment and scores of second half of the semester will be consolidated during the 16<sup>th</sup> week of the semester. During the second half of the semester the remaining units in the course will be completed.

4.2.3 The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) will be proposed by the teacher(s) concerned before the commencement of the semester and will be discussed and decided in the respective Departmental Council. The students should be informed about the modalities well in advance. The evaluated courses/assignments during component I (C1) and component II (C2) of assessment are immediately returned to the candidates after obtaining acknowledgement in the register maintained by the concern teacher for this purpose.

4.2.4 During the 18<sup>th</sup> -20<sup>th</sup> week of the semester, a semester-end examination of 2 hours duration shall be conducted for each course. This forms the third/final component of assessment (C3) and the maximum marks for the final component will be 50.

4.2.5 In case of a course with only practical component a practical examination will be conducted with two examiners (one internal and one external).

A candidate will be assessed on the basis of:

- a) Knowledge of relevant processes
- b) Skills and operations involved
- c) Results / products including calculation and reporting.

If external examiner does not turn up then both the examiners will be internal examiners. The duration for semester-end practical examination shall be decided by the departmental council.

4.2.6 Scheme of Valuation for Practical Examination:

The student is evaluated for 50 marks in C3 as per the following scheme:

There will be two questions. A candidate has to prepare procedure for both the questions and execute any one of examiner's choice:

|                       |   |                 |
|-----------------------|---|-----------------|
| Procedure Development | : | 10 x 2=20 Marks |
| Implementation        | : | 15 x 1=15 Marks |

|        |   |          |
|--------|---|----------|
| Viva   | : | 10 Marks |
| Record | : | 05 Marks |
| Total  | : | 50 Marks |

\*For change of question = 5 Marks will be deducted per question.

4.2.7 If **X** is the marks scored by the candidate out of 50 in C3 in theory examination, if **Y** is the marks scored by the candidate out of 50 in C3 in Practical examination, and if **Z** is the marks scored by the candidate out of 50 in C3 for a course of (L=0):T:(P=0) type that is entirely tutorial based course, then the final marks (M) in C3 is decided as per the following table.

| L.T.P distribution | Find mark M in C3                    |
|--------------------|--------------------------------------|
| L:T:P              | $\frac{[(L+T)*X]+[(T+P)*Y]}{L+2T+P}$ |
| L:(T=0):P          | $\frac{(L*X)+(P*Y)}{L+P}$            |
| L:T:(P=0)          | X                                    |
| L:(T=0):(P=0)      | X                                    |
| (L=0):T:P          | Y                                    |
| (L=0):(T=0):P      | Y                                    |
| (L=0):T:(P=0)      | Z                                    |

4.2.8 The details of continuous assessment are summarized in the following table:

| Component   | Syllabus in a course                                  | Weightage | Period of Continuous assessment   |
|---|---|-----------|---|
| C1  | First 50%   | 25%       | First half of the semester To be consolidated by 8 <sup>th</sup> week   |
| C2  | Remaining 50%   | 25%       | Second half of the semester.To be consolidated by 16 <sup>th</sup> week |
| C3  | Semester-end examination<br>(All units of the course) | 50%       | To be completed during 18th-20 <sup>th</sup> Week.                      |
| <b>Final grades to be announced latest by 24th week</b> |   |           |   |

4.2.9 A candidate's performance from all 3 components will be in terms of scores, and the sum of all three scores will be for a maximum of 100 marks (25 +25 + 50).

4.2.10 Finally, awarding the grades should be completed latest by 24th week of the semester.

### 4.3 Minor Project/Major Project/Dissertation Evaluation

Right from the initial stage of defining the problem, the candidate has to submit the progress reports periodically and also present his/her progress in the form of seminars

in addition to the regular discussion with the guide. Components of evaluation are as follows:

Component – I (C1): Periodic Progress and Progress Reports (25%)

Component – II (C2): Results of Work and Draft Report (25%)

Component– III (C3): Final Viva-voce and evaluation (50%).

The report evaluation is for 30% and Viva-voce examination is for 20%.

- 4.4 In case a candidate secures less than 30% in C1 and C2 put together in a course, the candidate is said to have DROPPED that course, and such a candidate is not allowed to appear for C3 in that course. In case a candidate's class attendance in a course is less than 75%, the candidate is said to have DROPPED that course, and such a candidate is not allowed to appear for C3 in that course.

Teachers offering the courses will place the above details in the Department Council meeting during the last week of the semester, before the commencement of C3, and subsequently a notification pertaining to the above will be brought out by the Chairman of the Department before the commencement of C3 examination. A copy of this notification shall also be sent to the office of the Controller of Examinations.

- 4.5 In case a candidate secures less than 30% in C3, he/she may choose DROP/MAKEUP option.

In case a candidate secures more than or equal to 30% in C3, but his/her grade (G) = 4, as per section 4.7 below, then he/she may be declared to have been conditionally successful in this course, provided that such a benefit of conditional clearance based on G=4 shall not be availed for more than 8 credits for the entire programme of Master's Degree of two years.

A MAKE UP examination for odd semester courses will be conducted along with next regular odd semester examinations and for even semester courses along with a next regular even semester examinations. If a candidate is still unsuccessful, he/she may opt for DROP or again take up MAKE UP examination; however, not exceeding double the duration norm in one stretch from the date of joining the course.

- 4.6 A candidate has to re-register for the DROPPED course when the course is offered again by the department if it is a hard core course. The candidate may choose the same or an alternate core/elective in case the dropped course is soft core / elective course. A candidate who is said to have DROPPED project work/Dissertation has to re-register for the same subsequently within the stipulated period. **The details of any dropped course will not appear in the grade card.**

- 4.7 The grade and the grade point earned by the candidate in the subject will be as given

below.

| Marks(M) | Grade | Grade Point (GP = V x G) |
|----------|-------|--------------------------|
| 30-39    | 4     | V*4                      |
| 40-49    | 5     | V*5                      |
| 50-59    | 6     | V*6                      |
| 60-64    | 6.5   | V*6.5                    |
| 65-69    | 7     | V*7                      |
| 70-74    | 7.5   | V*7.5                    |
| 75-79    | 8     | V*8                      |
| 80-84    | 8.5   | V*8.5                    |
| 85-89    | 9     | V*9                      |
| 90-94    | 9.5   | V*9.5                    |
| 95-100   | 10    | V*10                     |

Here, **P** is the percentage of marks ( $P = [(C1+C2)+M]$ ) secured by a candidate in a course which is rounded to nearest integer. **V** is the credit value of course. **G** is the grade and GP is the grade point.

- 4.8 A candidate can withdraw any course within in ten days from the date of notification of final results. Whenever a candidate withdraws a paper, he/she has to register for the same course in case it is hard core course, the same course or an alternate course if itis soft core/open elective.  
A DROPPED course is automatically considered as a course withdrawn.

- 4.9 Overall Cumulative Grade Point Average (CGPA) of a candidate after successful Completion the required number of credits (80) is given by:

$$CGPA = \Sigma GP / \text{Total number of credits}$$



## 5. Classification of Results

The final grade point (FGP) to be awarded to the student is based on CGPA secured by the candidate and is given as follows.

| CGPA                      | Numerical Index | Qualitative Index |
|---------------------------|-----------------|-------------------|
| $4 \leq \text{CGPA} < 5$  | 5               | Second Class      |
| $5 \leq \text{CGPA} < 6$  | 6               |                   |
| $6 \leq \text{CGPA} < 7$  | 7               | First Class       |
| $7 \leq \text{CGPA} < 8$  | 8               |                   |
| $8 \leq \text{CGPA} < 9$  | 9               | Distinction       |
| $9 \leq \text{CGPA} < 10$ | 10              |                   |

Overall percentage =  $10 \times \text{CGPA}$  or is said to be 50% in case  $\text{CGPA} < 5$

## 6. Medium of Instruction

The medium of instruction shall be English. However, a candidate will be permitted to write the examinations in either English or Kannada. This rule is not applicable to languages.

## 7. Provision for Appeal

If a candidate is not satisfied with the evaluation of C1 and C2 components, he / she can approach the grievance cell with the written submission together with all facts, the assignments, test papers etc., which were evaluated. He/she can do so before the commencement of semester-end examination. The grievance cell is empowered to revise the marks if the case is genuine and is also empowered to levy penalty as prescribed by the college on the candidate if his/her submission is found to be baseless and unduly motivated. This cell may recommend taking disciplinary/corrective action on an evaluator if he/she is found guilty. The decision taken by the grievance cell is final.

For every program there will be one grievance cell. The composition of the grievance cell is as follows.

1. The Controller of Examinations ex-officio Chairman / Convener
2. One senior faculty member (other than those concerned with the evaluation of the course concerned) drawn from the department/discipline and/or from the sister departments/sister disciplines.
3. One senior faculty member / course expert drawn from outside the department.

8. Any other issue not envisaged above, shall be resolved by the competent authority of the autonomous college, which shall be final and binding.
9. Any matter which is not covered under this regulation shall be resolved as per the College/Mysore University regulations.

\*\*\*\*\*

## **Programme Outcomes – M.C.A.**

**PO 1:** Use emerging tools, techniques and skills necessary for computing in the real world.

**PO 2:** Identify, formulate and solve complex computing problems to achieve substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domains.

**PO 3:** Analyse problems, suggest appropriate solutions and justify propositions for effective decision making in the professional field.

**PO 4:** Develop strong critical thinking skills to assess why certain solutions might not work and to save time in coming up with the right approach in the field of computing.

**PO 5:** Create, select and apply appropriate techniques and latest Information Technology tools to forecast an outcome by utilizing data that is available.

**PO 6:** Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practices.

**PO 7:** Develop and imbibe the principles of ethics and values in profession.

**PO 8:** Communicate effectively and efficiently as an individual, and as a member, or leader to present the technical knowledge in multi-disciplinary settings.

**PO 9:** Study and review literature, reports prepare documentation and make inferences to design better systems.

**PO 10:** Recognize and realize the need for, and develop an ability to engage in lifelong learning.

SBRR Mahajana First Grade College (Autonomous), PG Wing

Pooja Bhagavat Memorial Mahajana Education Centre

KRS Road, Metagalli, Mysuru-570016

## **Master of Computer Application**

### **Programme Structure & Syllabus**

w.e.f. 2022-2023

#### **List of Hard Core Courses**

| Sl.No. | Course Title                                       | Credit Pattern |   |    | Credits | Course Code |
|--------|--|----------------|---|----|---------|-------------|
|        |  | L              | T | P  |         |             |
| 1      | Mathematical Foundations for Computer Applications | 4              | 0 | 0  | 4       | 22BH01      |
| 2      | Advanced Computer Networks                         | 3              | 1 | 0  | 4       | 22BH02      |
| 3      | Data Structures and Algorithms                     | 3              | 0 | 1  | 4       | 22BH03      |
| 4      | Operating System                                   | 3              | 1 | 0  | 4       | 22BH04      |
| 5      | Software Engineering                               | 3              | 1 | 0  | 4       | 22BH05      |
| 6      | Object Oriented Programming with Java              | 3              | 0 | 1  | 4       | 22BH06      |
| 7      | Python Programming                                 | 3              | 0 | 1  | 4       | 22BH07      |
| 8      | Minor Project                                      | 0              | 1 | 3  | 4       | 22BH08      |
| 9      | Dissertation Work                                  | 0              | 2 | 10 | 12      | 22BH09      |

**List of Soft Core Courses**

| Sl. No. | Course Title                                | Credit Pattern |   |   | Credits | Course Code |
|---------|---|----------------|---|---|---------|-------------|
|         |   | L              | T | P |         |             |
| 1       | Data Communication and Networks             | 3              | 1 | 0 | 4       | 22BS01      |
| 2       | Advanced Database Management System         | 3              | 0 | 1 | 4       | 22BS02      |
| 3       | Cloud Computing                             | 4              | 0 | 0 | 4       | 22BS03      |
| 4       | System Analysis and Design                  | 3              | 1 | 0 | 4       | 22BS04      |
| 5       | Web Technologies                            | 2              | 1 | 1 | 4       | 22BS05      |
| 6       | Cryptography and Network Security           | 3              | 1 | 0 | 4       | 22BS06      |
| 7       | Theory of Languages and Automata            | 3              | 0 | 1 | 4       | 22BS07      |
| 8       | Probability and Statistics                  | 3              | 1 | 0 | 4       | 22BS08      |
| 9       | Fundamentals of Internet of Things          | 3              | 1 | 0 | 4       | 22BS09      |
| 10      | Mobile Application Development with Android | 3              | 0 | 1 | 4       | 22BS10      |
| 11      | Linux Programming                           | 3              | 0 | 1 | 4       | 22BS11      |
| 12      | Information Retrieval                       | 3              | 0 | 1 | 4       | 22BS12      |
| 13      | Big Data Analytics                          | 3              | 0 | 1 | 4       | 22BS13      |
| 14      | Machine Learning using Python               | 3              | 0 | 1 | 4       | 22BS14      |
| 15      | Advanced Java                               | 3              | 0 | 1 | 4       | 22BS15      |
| 16      | Management Information Systems              | 3              | 1 | 0 | 4       | 22BS16      |
| 17      | Business Intelligence                       | 3              | 1 | 0 | 4       | 22BS17      |
| 18      | Entrepreneurship Development                | 3              | 1 | 0 | 4       | 22BS18      |
| 19      | Communication Skills                        | 3              | 1 | 0 | 4       | 22BS19      |
| 20      | Professional Ethics and Human Values        | 3              | 1 | 0 | 4       | 22BS20      |
| 21      | Cyber security                              | 3              | 1 | 0 | 4       | 22BS21      |
| 22      | Simulation and Modeling                     | 3              | 0 | 1 | 4       | 22BS22      |
| 23      | Artificial Intelligence                     | 3              | 1 | 0 | 4       | 22BS23      |

List of Open Elective Courses

| Sl.No. | CourseTitle       | Credit Pattern |   |   | Credits | Course Code |
|--------|-------------------|----------------|---|---|---------|-------------|
|        |                   | L              | T | P |         |             |
| 1      | World Wide Web    | 3              | 1 | 0 | 4       | 22BE01      |
| 2      | E-Commerce        | 3              | 1 | 0 | 4       | 22BE02      |
| 3      | Office Automation | 3              | 1 | 0 | 4       | 22BE03      |

Note: We follow latest Edition Textbooks as References.

**HC                    MATHEMATICAL FOUNDATIONS FOR COMPUTER APPLICATIONS                    4:0:0****Objectives:**

- Understand various concepts of mathematical logic.
- Implement set operations and functions in programming languages.
- Develop the skills to implement algebraic structures.
- Develop the basic skills of graph theory and its applications.

**Outcomes:**

- Develop an ability to implement various techniques of mathematical logic.
- Capability to apply the concepts of set theory.
- Ability to enhance the knowledge of algebraic structures towards computer applications.
- Ability to correlate the concepts of graph theory in computer applications.

**Unit I: Mathematical Logic:**

Statements and Notations, Connectives, Well-formed Formulas, Tautologies, equivalence of Formulas, Duality law, Normal Forms, The Predicate Calculus.

**Unit II: Set Theory**

Basic concepts, Some operations on Sets, Venn Diagrams, Cartesian Products, Relations and Ordering, Functions, Definition, Composition of functions, Inverse functions, Natural Numbers, Recursion, Recursion in Programming Languages.

**Unit III: Algebraic Structures**

Algebraic Systems, Examples and General Properties, Grammars and Languages, Polish Expressions and Their Compilation, Groups, Definitions and Examples, Subgroups and Homomorphism's.

**Unit IV: Graph Theory**

An Introduction to Graph Theory: Definitions and examples Sub graphs, Complements, and Graph Isomorphism, Vertex Degree : Euler Trails and Circuits.

Definitions, Properties and examples rooted trees, Trees and sorting. Weighted Trees and Prefix codes. Spanning trees- minimal spanning tree by Prim's and Krushkal's Algorithm.

**References:**

1. Discrete Mathematical Structures with Applications to Computer Science - Trembley, J.P. and Manohar, RTata McGraw Hill, New Delhi.
2. Discrete Mathematics and Its Applications - Keneth H. Rosen: Fifth Edition, McGraw-Hill.
3. Discrete and Combinatorial Mathematics, Ralph P. Grimaldi, 5<sup>th</sup> Edition, Pearson Education.

Course articulation matrix:

| PO               | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|------------------|------|------|------|------|------|------|------|------|------|-------|
| CO               |      |      |      |      |      |      |      |      |      |       |
| CO 1             | 3    | 3    | 3    | 2    | 1    | 1    | -    | -    | 1    | 2     |
| CO 2             | 3    | 3    | 3    | 2    | 1    | 1    | -    | -    | 1    | 2     |
| CO 3             | 3    | 3    | 3    | 2    | 2    | 1    | -    | -    | 1    | 1     |
| CO 4             | 3    | 3    | 3    | 3    | 2    | 1    | -    | -    | 1    | 2     |
| Weighted Average | 3    | 3    | 3    | 2.25 | 1.5  | 1    | -    | -    | 1    | 1.75  |

1: Low, 2: Moderate, 3: High

**HC****ADVANCED COMPUTER NETWORKS****3:1:0****Objectives:**

- To understand fundamentals of Network hardware and software.
- To Teach the applications and services of Transport.
- To impart the structural mechanism of TCP/IP.
- To create the awareness on the concepts of IP Security.

**Outcomes:**

- To employ the mechanism of Reference models and TCP/IP.
- To understand the role of Transport Layer in computer networks.
- Employ the techniques of TCP/IP.
- Comprehend the internal working mechanism of IP Security.

**Unit I: Introduction**

Uses of Computer Networks, Network Hardware, Network Software, Reference Models- OSI, TCP/IP.

**Unit II: Transport Layer**

The Transport Service, Congestion Control, History of TCP/IP, TCP Applications and Services, Motivation for Performance Study of TCP/IP, TCP Performance, TCP/IP Fundamentals, TCP, UDP, IP, Performance Measurements of TCP/IP Networks.

**Unit III: TCP/IP**

TCP/IP Performance over Wireless Networks, Wireless Networks, Generic characteristics, Wireless Local Area Networks, Cellular Communications Networks, TCP Performance Issues over Wireless Links, Inappropriate Reduction of Congestion Window, Throughput Loss in WLANs, Throughput Loss in Cellular Communication Systems, Improving TCP Performance over Wireless Links, Splitting TCP Connections, Snooping TCP at Base Stations, Notifying the Causes of Packet Loss, Adding Selective Acknowledgments to TCP.

**Unit IV: IP & System Security.**

Overview, IP Security Policy, Encapsulating Security Payload, Combining Security Associations- Authentication Plus Confidentiality, Basic Combinations of Security Associations, Malicious Software, Types, Viruses, Antivirus Approaches, Distributed denial of service (DDoS) attacks.

**References:**

1. Computer Networks, Andrew S Tanenbaum, David. J. Wetherall, Pearson Education.
2. High Performance TCP/IP: Networking Concepts, Issues, and Solutions, Mahbub Hassan and Raj Jain, IST Edition, PHI Learning.
3. Network Security Essentials: Applications and Standards, William Stallings, 4th Edition, Prentice Hall.



Course articulation matrix:

| PO               | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|------------------|------|------|------|------|------|------|------|------|------|-------|
| CO               |      |      |      |      |      |      |      |      |      |       |
| CO 1             | 3    | 2    | 2    | 2    | 2    | 1    | -    | 1    | 1    | 2     |
| CO 2             | 3    | 2    | 2    | 2    | 2    | 1    | 1    | 1    | 1    | 2     |
| CO 3             | 2    | 2    | 2    | 2    | 1    | 2    | 1    | 1    | 1    | 2     |
| CO 4             | 3    | 3    | 3    | 2    | 2    | 2    | 1    | 1    | 2    | 2     |
| Weighted Average | 2.75 | 2.25 | 2.25 | 2    | 1.75 | 1.5  | 1    | 1    | 1.25 | 1.5   |

1: Low, 2: Moderate, 3: High

**HC****DATA STRUCTURES AND ALGORITHMS****3:0:1****Objectives:**

- Impart the basic concepts of data structures and algorithms.
- Understand concepts about searching and sorting techniques.
- Know the basic concepts about stacks, queues, lists, trees and graphs.
- To gain knowledge on trees and graphs concepts.

**Outcomes:**

- Analyse algorithms and algorithm correctness.
- Summarize searching and sorting techniques.
- Describe stack, queue and linked list operation.
- Solve the problems by writing algorithms using fundamental data structures.

**Unit I: Basics of Data Structures and Algorithms**

Introduction to Data Structures: Basic Data Types - Abstract Data Types; Structure, operations on them and Implementation. Introduction to Algorithms: Fundamentals of Algorithmic problem solving, Problem types - Analysis of Algorithm Efficiency: Analysis framework - Orders of growth, asymptotic notations and basic efficiency classes.

**Unit II: Stacks, Queues and Lists**

Arrays: Single and Two dimensional - Stacks: Array representation, Expression evaluation, recursion – Queues: Linear queue, priority queues (heap), Linked lists: Singly linked, Doubly linked, Memory representation of lists

**Unit III: Trees and Graphs**

Trees: Basic Terminologies, Binary Trees and their memory representation, Binary Search Trees  
Graphs: Directed and Undirected graphs, Definitions, Representations, Weighted graphs, Traversals and searching BFS and DFS.

**Unit IV: Algorithm Design**

Divide and Conquer: General method, Binary search, Merge sort, Quick sort, Greedy Method General Method, Knapsack Problem, Minimum-Cost Spanning Trees - Kruskal's and Prim's algorithm, Single-Source Shortest Path Problem, Dijkstra's algorithm, Dynamic Programming : General Method, All Pair Shortest Paths(Floyd-Warshall algorithm); Travelling Salesman Problems.

**References:**

1. Fundamentals of Computer Algorithms – Ellis Horowitz, Sartaj Sahni, Sanguthevar Rajasekaran 2<sup>nd</sup> Edition, Computer Science Press.
2. Data Structures with C - Seymour Lipschutz Schaum's Outline Series
3. Classical Data Structures – Debasis Samanta, 2nd Edition, PHI Learning Pvt.Ltd.

Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO 1                | 2    | 3    | 3    | 2    | 1    | --   | --   | -    | 1    | 3     |
| CO 2                | 3    | 2    | 2    | 2    | 3    | -    | -    | --   | -    | 1     |
| CO 3                | 3    | 2    | 2    | 2    | 2    | -    | -    | -    | -    | 1     |
| CO 4                | 2    | 3    | 2    | 2    | 2    | 1    | -    | 1    | 1    | 1     |
| Weighted<br>Average | 2.5  | 2.5  | 2.25 | 2    | 2    | 1    | -    | 1    | 1    | 1.5   |

1: Low, 2: Moderate, 3: High

**HC****OPERATING SYSTEM****3:1:0****Objectives**

- Understand the fundamental principles of operating system, processes and their communication.
- Understand the concepts of process management.
- Understand the concepts of Memory Management.
- Know the concepts of file systems and the disk management in Operating Systems.

**Outcomes**

- Understand the usage of the operating system components and its services.
- Employ the concepts of process management.
- Employ the concepts of Memory Management
- Apply the file handling concepts in OS perspective.

**Unit I:**

Introduction -Computer System Organization – Computer system architecture – Operating system operations - Operating systems services-System calls- Types of system calls – Operating system structure. Processes-process concept- process scheduling-operation on processes. Threads – Overview, Multithreading models – Threading issues.

**Unit II:**

Process Scheduling - Scheduling criteria-Scheduling algorithms – Thread scheduling - Multiple-processor scheduling. Process Synchronization – Critical Section problem – Peterson's solution – Semaphores Classical problems of synchronization - critical regions – Introduction to Monitors.

**Unit III:**

Deadlocks – System model - Deadlock Characterization - Deadlock handling - Deadlock Prevention - Deadlock avoidance - Deadlock Detection - Deadlock Recovery.

Memory Management – Swapping - Contiguous Memory allocation -Segmentation Paging.

Virtual Memory Management - Demand paging – Copy on write - Page Replacement - Thrashing.

**Unit IV:**

File System – File concept – Access methods – Directory structure – Directory and disk structure - File Systems structures - Directory Implementation - Allocation Methods - Free Space management. Linux System – Linux history, Design Principles, Kernel modules.

**References:**

1. Operating Systems Concepts - Abraham Silberschatz Peter B Galvin, G.Gagne, 9<sup>th</sup> Edition, John Wiley & Sons.
2. Modern operating Systems-Andrew S.Tanenbaum, Third Edition, PHI Learning Pvt. Ltd.
3. Operating Systems: A Concept-based Approach - D M Dhamdhere, Second Edition, Tata McGraw-Hill Education.
4. Operating Systems-H M Deital, P J Deital and D R Choffnes3rd edition, Pearson Education.
5. Operating Systems: Internals and Design Principles-William Stallings, Seventh Edition, Prentice Hall.

Course articulation matrix:

| PO               | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|------------------|------|------|------|------|------|------|------|------|------|-------|
| CO               |      |      |      |      |      |      |      |      |      |       |
| CO 1             | 1    | 2    | 1    | -    | -    | --   | -    | -    | 2    | 1     |
| CO 2             | -    | 3    | 1    | 2    | -    | -    | -    | -    | 2    | 1     |
| CO 3             | -    | 3    | 1    | 2    | -    | -    | -    | -    | 2    | 1     |
| CO 4             | 1    | 3    | 1    | 2    | -    | -    | -    | -    | 2    | 1     |
| Weighted Average | 1    | 2.75 | 1    | 2    | -    | -    | -    | -    | 2    | 1     |

1: Low, 2: Moderate, 3: High

**HC****SOFTWARE ENGINEERING****3:1:0****Objectives**

- Understand the importance of domain knowledge and its work around.
- Know the importance team work and stewardship.
- Analyze and implement solutions to complex problems involving computers.
- A solid understanding to the methods of Software Quality Assurance.

**Outcomes**

- Gain an understanding to work in one or more significant application domains.
- Develop an ability to work as an individual and as part of a multidisciplinary team to develop and deliver quality software.
- Demonstrate an understanding of and apply the current theories, models, and techniques that provide a basis for the software lifecycle.
- Demonstrate an ability to ensure Software Quality Assurance.

**Unit I: Software, Software Engineering and Process Models**

The Nature of Software, The Unique Nature of WebApps, Software Engineering, The Software Process, Software Engineering Practice, Software Myths, Prescriptive Process Models.

**Unit II: Agile Development**

Agile process model, Agility and Cost of Change, Agile Process, Extreme Programming, User stories, Brief introduction to Scrum.

**Unit III: Requirements Modelling & Design**

Requirements Analysis, Scenario – Based Modelling, UML Models that supplement the Use Case, Data Modelling Concepts, Requirements Modelling Strategies, Flow-oriented Modelling, Creating a behavioural model, Design concepts, Design Model.

**Unit IV: Software Quality Assurance & Testing**

Software Quality Assurance : Elements of Software Quality Assurance, SQA Tasks, Goals, Metrics, Formal Approaches to SQA, Statistical SQA, Software Reliability.

Software Testing : Verification & Validation, Software Testing Strategy—The Big Picture, Test strategies for conventional software, OO software and WebApps, Validation Testing, System testing, The Debugging process, White box testing, Black box testing.

**References:**

1. Software Engineering, A Practioner's Approach - Roger S Pressman, 7th Edition, McGraw Hill Education Pvt. Limited.
2. Software Engineering - Ian Sommerville, 8th Edition, Pearson Education Ltd.
3. Fundamentals of software engineering - Rajib Mall, Phi learning Pvt. Ltd, 3rd edition.

Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO 1                | 3    | 1    | 2    | 2    | 2    | 1    | 2    | 1    | 3    | 2     |
| CO 2                | 2    | 1    | 2    | 2    | 2    | 1    | 1    | 1    | 2    | 1     |
| CO 3                | 2    | 2    | 3    | 2    | 3    | 1    | 1    | 1    | 2    | 1     |
| CO 4                | 2    | 1    | 2    | 2    | 1    | 1    | 2    | 1    | 2    | 2     |
| Weighted<br>Average | 2.25 | 1.25 | 2.25 | 2    | 2    | 1    | 1.5  | 1    | 2.25 | 1.5   |

1: Low, 2: Moderate, 3: High

**HC****OBJECT ORIENTED PROGRAMMING WITH JAVA****3:0:1****Objectives:**

- Gain knowledge about basic of Java language syntax and semantics.
- Understand the fundamentals of object-oriented programming in Java, including defining classes, objects, invoking methods etc and exception handling mechanisms.
- Gain knowledge on multi-threads programming.

**Outcomes:**

- Use the syntax and semantics of java programming language and basic concepts of OOP.
- Apply the class fundamentals, arrays, inheritance and polymorphism to develop reusable programs.
- Apply the concepts of packages, interfaces and exception handling to develop efficient and error free codes.
- Build applications using the concepts of multithreading and files.

**Unit – I**

An Overview of Java: Object-Oriented Programming, A First Simple Program, A Second Short Program, Two Control Statements, Using Blocks of Code, Lexical Issues, The Java Class Libraries, Data Types, Variables, and Arrays: Java Is a Strongly Typed Language, The Primitive Types, Integers, Floating-Point Types, Characters, Booleans, A Closer Look at Literals, Variables, Type Conversion and Casting, Automatic Type Promotion in Expressions, Arrays, A Few Words About Strings.

**Unit – II**

Introducing Classes: Class Fundamentals, Declaring Objects, Assigning Object Reference Variables, Introducing Methods, Constructors, The this Keyword, Garbage Collection, The finalize() Method, A Stack Class, A Closer Look at Methods and Classes: Overloading Methods, Using Objects as Parameters, A Closer Look at Argument Passing, Returning Objects, Recursion, Introducing Access Control, Understanding static, Introducing final, Arrays Revisited, Inheritance: Inheritance Basics, Using super, Creating a Multilevel Hierarchy, Constructors, Method Overriding, Dynamic Method Dispatch, Using Abstract Classes, Using final with Inheritance.

**Unit – III**

Packages and Interfaces: Packages, Access Protection, Importing Packages, Interfaces, Exception Handling: Exception-Handling Fundamentals, Exception Types, Uncaught Exceptions, Using try and catch, Multiple catch Clauses, Nested try Statements, throw, throws, finally, Java's Built-in Exceptions, Creating Your Own Exception Subclasses, Chained Exceptions, Using Exceptions.

**Unit – IV**

Multithreaded Programming: The Java Thread Model, The Main Thread, Creating a Thread, Creating Multiple Threads, Using isAlive() and join(), Thread Priorities, Synchronization. I/O Basics, Reading Console Input, Writing Console Output, ThePrintWriter Class, Reading and Writing Files.

**References**

1. Herbert Schildt, Java 2, The Complete Reference, Tata McGrawHill.
2. E. Balaguruswamy, Programming with JAVA A Primer, McGrawHill Education. Pvt. Ltd.



Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO 1                | 3    | 2    | 2    | 1    | 1    | -    | -    | -    | -    | -     |
| CO 2                | 3    | 2    | 3    | 3    | 1    | -    | -    | -    | -    | -     |
| CO 3                | 3    | 3    | 3    | 3    | 1    | -    | -    | -    | -    | -     |
| CO 4                | 3    | 2    | 1    | 1    | 1    | -    | -    | -    | -    | -     |
| Weighted<br>Average | 3    | 2.25 | 2.25 | 2    | 1    | -    | -    | -    | -    | -     |

1: Low, 2: Moderate, 3: High

**HC****PYTHON PROGRAMMING****3:0:1****Objectives:**

- Understand programming paradigms brought in by Python.
- To learn to use python for text processing, with a focus on Regular Expressions, List and Dictionaries.
- To explore various modules and libraries to cover the landscape of Python programming.

**Outcomes:**

- Develop algorithmic solutions to simple computational problems.
- Read, write, execute by hand simple Python programs.
- Structure simple Python programs for solving problems.
- Decompose a Python program into functions.

**Unit-1 INTRODUCTION TO PYTHON**

Structure of Python Program, Branching and Looping, Functions, Lists, tuples, string functions, list comprehensions.

**Unit-2 SEQUENCE DATATYPES AND OBJECT-ORIENTED PROGRAMMING**

Sets, Dictionaries, Classes: Classes and Instances, Inheritance, Exceptional Handling, Modules, Introduction to Regular Expressions using “re” module.

**Unit-3 USING NUMPY & PANDAS**

Basics of NumPy, Computation on NumPy, Aggregations, Computation on Arrays, Comparisons, NumPy's Structured Array.

Introduction to Pandas Objects, Data indexing and Selection, Operating on Data in Pandas, Handling Missing Data, Combining Data Sets.

**Unit-4 VISUALIZATION AND MATPLOTLIB**

Basic functions of matplotlib-Simple Line Plot, Scatter Plot-Density and Contour Plots-Histograms, Binnings and Density-Customizing Plot Legends, Colour Bars-Three- Dimensional Plotting in Matplotlib

**References:**

1. The Python Tutorial : <https://docs.python.org/3/tutorial/index.html>
2. Python Data Science Handbook - Essential Tools for Working with Data, Jake VanderPlas , O'Reily Media,Inc, 2016
3. An Introduction to Python and Computer Programming, Zhang.Y, Springer Publications,2016
4. NumPy : <https://numpy.org/>
5. Pandas : <https://pandas.pydata.org/>
6. Matplotlib : <https://matplotlib.org/>
7. Core Python Applications Programming, 3rd Edition by Wesley J. Chun
8. Python, The complete Reference, Martin C. Brown, McGraw Hill Education.
9. Python in a Nutshell, A. Martelli, A. Ravenscroft, S. Holden, OREILLY.

Course articulation matrix:

| PO               | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|------------------|------|------|------|------|------|------|------|------|------|-------|
| CO               |      |      |      |      |      |      |      |      |      |       |
| CO 1             | 2    | 2    | 2    | 2    | 2    | 1    | 1    | -    | -    | 2     |
| CO 2             | 2    | 2    | 2    | 2    | 2    | 1    | 1    | -    | -    | 1     |
| CO 3             | 3    | 2    | 2    | 1    | 2    | -    | -    | 1    | 1    | 1     |
| CO 4             | 3    | 2    | 2    | 2    | 2    | -    | -    | -    | -    | 1     |
| Weighted Average | 2.5  | 2    | 2    | 1.75 | 2    | 1    | 1    | 1    | 1    | 1.25  |

1: Low, 2: Moderate, 3: High

**HC****MINOR PROJECT****0:1:3****Objectives:**

- To offer students a glimpse into real world problems and help the students learn how to apply the tools and techniques they learned in the respective courses.
- To help students develop openness to new ideas in computer science and create very precise specifications for the execution of the project idea.
- To promote team working skills, problem solving skills, and presentation skills among students working on the project.

**Outcomes:**

- Understanding the emerging trends of new technologies by conducting a survey of several available literature in the preferred field of study.
- Develop real time Projects by comparing the several existing solutions for a research challenge.
- Demonstrate an ability to work in teams and manage the process of building the project within the stipulated time.
- Report and present the findings of the research study/project conducted in the preferred domain.

Students need to implement different kinds of problems using Java based Frameworks, Python, PHP, MYSQL, Cloud tools, IoT tools, Dot NET, CASE tools, Open source tools and Mobile application oriented tools, as well as data mining/machine learning tools and techniques.

**Course articulation matrix:**

| PO               | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| CO               |     |     |     |     |     |     |     |     |     |      |
| CO1              | -   | -   | 3   | -   | -   | -   | -   | -   | -   | 3    |
| CO2              | 3   | -   | -   | 3   | -   | -   | -   | -   | -   | 3    |
| CO3              | -   | -   | -   | -   | -   | -   | -   | 3   | -   | 3    |
| CO4              | -   | -   | -   | -   | -   | -   | -   | -   | 3   | 3    |
| Weighted Average | 3   | -   | 3   | 3   | -   | -   | -   | 3   | 3   | 3    |

**1: Low, 2: Moderate, 3: High**

HC

DISSERTATION WORK

0:2:10

**Objectives:**

- Able to design a computing system to meet desired needs within realistic constraints such as safety, security and applicability.
- An ability to conduct experiments, interpret data and provide well informed conclusions.
- An ability to select modern computing tools and techniques and use them with dexterity.

**Outcomes:**

- Develop basic algorithm steps as a solution to a real-life problem.
- Implement algorithms using latest tools that contribute to the software solution of the project using different tools.
- Analyse, interpret, test and validate experimental results.
- Develop research/technical report with enhanced writing/communication skills following ethical practices.

Students need to implement different kinds of problems using Java based Frameworks, Python, PHP, MYSQL, Cloud tools, IoT tools, Dot NET, CASE tools, Open source tools and Mobile application oriented tools, as well as data mining/machine learning tools and techniques.

**Course articulation matrix:**

| PO               | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| CO               |     |     |     |     |     |     |     |     |     |      |
| CO1              | -   | 3   | 3   | 2   | -   | -   | -   | -   | -   | 3    |
| CO2              | 3   | 3   | 3   | 2   | 3   | -   | -   | -   | -   | 3    |
| CO3              | -   | -   | 3   | 2   | -   | -   | -   | -   | 3   | 3    |
| CO4              | -   | -   | -   | -   | -   | -   | 3   | 2   | 3   | 3    |
| Weighted Average | 3   | 3   | 3   | 2   | -   | -   | -   | 2   | 3   | 3    |

1: Low, 2: Moderate, 3: High

**SC****DATA COMMUNICATION AND NETWORKS****3:1:0****Objectives:**

- Understand the basics of data communication components.
- Learn the protocols of Data link layer.
- Understand different network layer services and routing protocols
- Know the different techniques involved transport layer and application layer

**Outcomes:**

- Understand and implement various types of transmissions in wired and wireless communications
- Study and develop the aspects of communication channels of Data Link Layer.
- Understand Design & apply various routing protocols of the Networks Layer.
- Design applications using the protocols of Transport & application Layer.

**Unit I: Data Communications**

Components, Data Representation, Data Flow, Networks –Network Criteria and Network Models, OSI model, TCP/IP Protocol suite, Multiplexing, Transmission media-Guided and Unguided media.

**Unit II: Data link layer**

Introduction, Framing, Flow and error control, Protocols-Noiseless Channels and Noisy Channels, Multiple Access: Medium Access Sub Layer-ALOHA, CSMA/CD, Wired LAN – Ethernet, Wireless LAN – IEEE 802.11

**Unit III: Network layer**

Network Layer: Internet Protocol – IPv4, Ipv6, IPv4 addresses, IPv6 addresses, Transition from IPv4 to IPv6, Routing algorithms, Unicast Routing protocols-Internet Structure, Brief introduction to RIP, OSPF and BGP, Unicasting vs. Multicasting.

**Unit IV: Transport Layer and Application Layer**

Transport layer services- Process to process communication, Addressing, Transport layer protocols-Services, Port numbers, UDP and TCP, Application Layer: Client/Server Paradigm, Standard Applications : WWW and HTTP, FTP, Electronic Mail, TELNET, SSH, DNS, Introduction to P2P networks.

**References:**

1. Data Communications and Networking with TCPIP Protocol Suite - Behrouz A. Forouzan, 6<sup>th</sup> Edition, McGraw Hill.
2. Computer Networks - Andrew S Tanenbaum, 5th Edition. Pearson Education, PHI.
3. Data communications and Computer Networks - P.C .Gupta, PHI.
4. An Engineering Approach to Computer Networks - S. Keshav, 2nd Edition, Pearson Education.
5. Understanding communications and Networks, 3rd Edition, W.A. Shay, Cengage Learning.
6. Computer Networking: A Top-Down Approach Featuring the Internet - James F. Kurose & Keith W. Ross, 3rd Edition, Pearson Education.
7. Data and Computer Communication- William Stallings, Sixth Edition, Pearson Education.

Course articulation matrix:

| PO<br>CO            | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| CO1                 | -   | -   | 3   | -   | -   | -   | -   | 2   | -   | 2    |
| CO2                 | -   | -   | 3   | -   | -   | -   | -   | 2   | -   | 1    |
| CO3                 | 3   | -   | -   | 3   | -   | -   | -   | 2   | -   | 3    |
| CO4                 | 3   | -   | -   | 3   | -   | -   | -   | 2   | -   | 3    |
| Weighted<br>Average | 3   | -   | 3   | 3   | -   | -   | -   | 2   | -   | 2.25 |

1: Low, 2: Moderate, 3: High

**SC****ADVANCED DATABASE MANAGEMENT SYSTEM****3:0:1****Objectives:**

- Learning data modelling using the entity-relationship and developing database designs.
- Understand the use of Structured Query Language (SQL) and learn SQL syntax.
- Apply normalization techniques to normalize the database.
- Understand how NoSQL databases are often more scalable and provide superior performance.

**Outcomes:**

- Determine the basic concepts, E-R Mapping and SQL basic commands.
- Demonstrate the techniques of SQL, FD and Normalization.
- Develop Indexing, ACID and Transaction.
- Describe NoSQL database and PostgreSQL.

**Unit I**

Levels of abstraction in a DBMS, structure of a DBMS, people who work with databases, entity, entity types, entity sets, attributes, keys, relationship sets, participation constraints, weak entities and Enhanced Entity Relationship Model - Relational Database Design by ER- and EER-to-Relational Mapping, Basic Retrieval Queries in SQL, INSERT, DELETE, and UPDATE Statements in SQL, Additional features of SQL.

**Unit II**

Data definition, constraints and schema changes in SQL, Joins in SQL, views in SQL, Aggregate Functions and Clauses. Informal design guidelines for relational schemas, functional dependencies & types, normal forms- first, second, third, boyce-codd, forth & fifth normal forms.

**Unit III**

Sequential file organization, heap file organization, clustered indexes primary and secondary indexes, hash based indexing and B+ tree-based indexing. ACID properties - consistency and isolation, atomicity and durability, transaction on schedules, concurrent execution of transactions, serializability, lock-based concurrency control, strict two phase locking.

**Unit IV**

Introduction to NoSQL Systems, CAP Theorem, Document-Based NOSQL Systems, NoSQL Key-Value Stores, Column-Based or Wide Column NOSQL Systems. A brief introduction on PostgreSQL.

**References**

1. Fundamentals of Database Systems by Navathe and Elmasri –Pearson Education, Fifth Edition.
2. Database Systems Concepts, 3rd edition by Abraham Silberschatz, Henry Korth and S. Sudarshan, Tata McGraw Hill.
3. Principles of database systems by Ullman, Computer Science press.
4. DBMS by Prof. S.Nandagopalan, 7th Revised Edition.



Course articulation matrix:

| PO<br>CO            | PO1  | PO2  | PO3 | PO4  | PO5  | PO6  | PO7 | PO8 | PO9 | PO10 |
|---------------------|------|------|-----|------|------|------|-----|-----|-----|------|
| CO 1                | 2    | 2    | 2   | 1    | 1    | -    | -   | -   | -   | -    |
| CO 2                | 2    | 3    | 3   | 2    | 1    | 1    | -   | -   | -   | -    |
| CO 3                | 3    | 3    | 3   | 2    | 2    | 1    | -   | 1   | 1   | 1    |
| CO 4                | 2    | 3    | 2   | 2    | 3    | 2    | -   | -   | 1   | 2    |
| Weighted<br>Average | 2.25 | 2.75 | 2.5 | 1.75 | 1.75 | 1.33 | -   | 1   | 1   | 1.5  |

1: Low, 2: Moderate, 3: High

**SC****CLOUD COMPUTING****4:0:0****Objectives:**

- Ability to understand various basic concepts related to Cloud Computing technologies.
- Demonstrate the architecture and concept of different cloud models: IaaS, PaaS, SaaS
- Learn cloud services for individuals.
- Understand the technologies for data security in cloud.

**Outcomes:**

- Demonstrate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications.
- Identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud.
- Identify the cloud services for the individuals
- Acquire the knowledge on the core issues of cloud computing such as security, privacy, and interoperability.

**Unit I:**

Introduction: Cloud Computing in a Nutshell, Layers and Types of Clouds, Desired Features of Cloud, Cloud Infrastructure Management, Challenges and Risks. Migrating into a Cloud- The Seven-Step Model of Migration into a Cloud.

**Unit II:**

Software as a Service (SaaS): Evolution of SaaS, Challenges of SaaS Paradigm, New Integration Scenarios, SaaS Integration of Products and Platforms, SaaS Integration Services, Business – to Business Integration Services.

Infrastructure As a Services (IaaS): Introduction, Background & Related Work, Virtual Machines Provisioning and Manageability, Virtual Machine Migration Services, Provisioning in a Cloud Context- Amazon Elastic Computer Cloud, Aneka.

Platform As a service (PaaS): Aneka Cloud Platform, Hybrid Cloud Implementation, Aneka Hybrid Cloud Architecture.

**Unit III:**

The Enterprise Cloud Computing Paradigm- Background, Business Drivers Toward a Marketplace for Enterprise Cloud Computing, The Cloud Supply Chain.

**Unit IV:**

Data Security in the Cloud- Introduction, Current State, Cloud Computing and Identity, The Cloud, Digital Identity, and Data Security. Cloud Data Security – Case Study.

**References:**

1. Cloud Computing: Principles and Paradigms - RajkumarBuyya, James Broberg, Andrzej M Goscinski, Wiley publication.
2. Cloud Computing: A Practical Approach - Toby Velte, Anthony Velte, McGraw-Hill Osborne Media.
3. Cloud Application Architectures: Building Applications and Infrastructure in the Cloud - George Reese, O'Reilly Publication.
4. Cloud Computing Explained: Implementation Handbook for Enterprises - John Rhoton, Recursive Press.

Course articulation matrix:

| PO<br>CO            | PO1  | PO2 | PO3  | PO4 | PO5  | PO6 | PO7 | PO8  | PO9  | PO10 |
|---------------------|------|-----|------|-----|------|-----|-----|------|------|------|
| CO1                 | 2    | -   | 1    | 2   | 3    | 3   | 2   | 3    | 3    | 3    |
| CO2                 | 2    | -   | 1    | 2   | 2    | 3   | 2   | 2    | 2    | 2    |
| CO3                 | 2    | 1   | 1    | 1   | 2    | 1   | 1   | 2    | 2    | 2    |
| CO4                 | 1    | -   | 2    | 3   | 2    | 1   | 1   | 2    | -    | 1    |
| Weighted<br>Average | 1.75 | 1   | 1.25 | 2   | 2.25 | 2   | 1.5 | 2.25 | 2.33 | 2    |

1: Low, 2: Moderate, 3: High

**SC****SYSTEM ANALYSIS AND DESIGN****3:1:0****Objectives:**

- Understand the basics of system concepts and learn the feasibility study of the system.
- Learn the data analysis of a new system and tools associated in structured analysis.
- Understand the concepts of system testing and standards related to Documentation and management
- Understand the concepts of system security and recovery management

**Outcomes:**

- Gather data for analysis and specify the requirements of a system.
- Design system components and environments.
- Build general and detailed models that assist programmers in implementing a system.
- Design a user interface for data input and output, as well as controls to protect the system and its data.

**Unit I:**

System Concept: Definition, Characteristics, Elements of system, Physical and abstract system, open & closed system and man-made information systems.

System Development Life Cycle: Various phases of system development, Considerations for system planning and control for system success.

Initial Investigation: Determining user's requirements and analysis, fact finding process and techniques.

Feasibility study: Determination of feasibility study, Technical, Operational & Economic Feasibilities, System performance constraints, identification of system objectives and feasibility report.

**Unit II:**

Cost/Benefit Analysis: Data analysis cost and benefit analysis of a new system and categories determination.

Tools of structured Analysis: Logical and Physical models, context, diagram, data dictionary, data diagram, IPO and HIPO charts, Gantt charts and pseudo codes. Flow charts- system flow chart, run flow charts etc., decision tree and decision tables.

**Unit III:**

Input/ Output and Form Design: Input and output form design methodologies, menu, screen design and layout consideration.

Management standards: Programming and operating standards.

Documentation standards: User and programming manual.

System testing & quality: System testing, quality assurance and software maintenance.

**Unit IV:**

System security: Data Security, Disaster/ recovery and ethics in system development.

Organization of EDP: Introduction, Job Responsibilities & duties of EDP Personnel- EDP manager, System Analyst, Programmers, Operators etc. Selection of Data Processing Resources: purchase, lease, rent-advantages and disadvantages.

**References:**

1. System Analysis and Design- Awad, Elias M- 2nd Edition, Galgotia Publication Pvt.Ltd.
2. System Analysis & Design - V K Jain, Dreamtech Press

- 3. Modern System Analysis &Design - A Hoffer, F George, S Valaciah Low Priced Edition, Pearson Education.
- 4. Information Technology & Computer Applications -V.K.Kapoor, Sultan Chand & Sons, New Delhi.

Course articulation matrix:

| PO<br>CO            | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| CO1                 | 3   | -   | 3   | -   | -   | -   | -   | -   | 3   | -    |
| CO2                 | 3   | -   | 3   | -   | -   | -   | -   | 3   | 3   | -    |
| CO3                 | 3   | -   | 3   | -   | -   | -   | -   | 3   | 3   | 3    |
| CO4                 | 3   | -   | 3   | -   | -   | -   | -   | 3   | 3   | 3    |
| Weighted<br>Average | 3   | -   | 3   | -   | -   | -   | -   | 3   | 3   | 2    |

1: Low, 2: Moderate, 3: High

**SC****WEB TECHNOLOGIES****2:1:1****Objectives:**

- To help students understand the basis of Internet and how communication happens over the World Wide Web.
- To help students understand the basic building blocks of web pages using HTML and CSS.
- To help students understand and use Java script and the Document Object Model.
- To help students understand the use of web frameworks and content management systems for creating and managing websites faster and easier.

**Outcomes:**

- Develop an ability to implement HTML5 pages using fundamental tags.
- Able to develop style sheet using CSS for a given problem.
- Able to extend JavaScript to validate a form with event handler for a given problem.
- Able to develop websites using web frameworks and content management systems

**Unit I**

Introduction to Internet, WWW, Web Browsers, and Web Servers, URLs, MIME, HTTP, Security. Quick introduction to HTML5 : basic text formatting, presentation elements, phrase elements, lists, Tables – attributes, grouping elements, basic links, email link, Image, Audio, Video, image maps , Forms.

**Unit II**

Cascading Style Sheet : Introduction, Levels of Style Sheet and specification formats, embedded style sheet, External Style Sheet, inline Style Sheet, Box Model, selector forms, Class and ID method, DIV and SPAN tags, Inheritance with CSS.

**Unit III**

JavaScript: JavaScript in HTML, Language Basics – Variables, operators, statements, functions, Data type conversions, reference types, Document object Model : methods, HTML DOM Elements, changing HTML and CSS, Events and event handling, event listener, form validation. Browser Object Model : Window, screen, history, popup alert, timing, cookies.

**Unit IV**

Brief introduction to Web Frameworks, MVC pattern, Push-based vs. pull-based, Three-tier organization, Examples for General-purpose website frameworks. Brief introduction to Content Management System, Advantages of CMS, Examples of widely used CMS, Creation of a simple website using WordPress.

**References:**

1. Internet and World Wide Web: How to Program - Paul Deitel, Harvey Deitel, Abbey Deitel, 5th Edition - 2018, Pearson Education.
2. HTML & CSS: The Complete Reference - Thomas Powell, 5th Edition – 2015, McGraw Hill Education.
3. HTML 5 Black Book (Covers CSS3, JavaScript, XML, XHTML, AJAX, PHP, jQuery) - DT Editorial Services, 2nd Edition – 2016, Dreamtech Press.
4. Learning PHP, MySQL & JavaScript with j Query, CSS & HTML5 - Robin Nixon, 4th Edition – 2015, O'Reilly.
5. <https://www.w3schools.com/>
6. [https://en.wikipedia.org/wiki/Web\\_framework](https://en.wikipedia.org/wiki/Web_framework)
7. [https://en.wikipedia.org/wiki/Content\\_management\\_system](https://en.wikipedia.org/wiki/Content_management_system)

Course articulation matrix:

| PO<br>CO            | PO1  | PO2  | PO3 | PO4  | PO5  | PO6  | PO7 | PO8 | PO9  | PO10 |
|---------------------|------|------|-----|------|------|------|-----|-----|------|------|
| CO1                 | 2    | 2    | 3   | 2    | 2    | 2    | -   | 2   | 2    | 1    |
| CO2                 | 3    | 3    | 3   | 3    | 3    | 2    | -   | 2   | 2    | 1    |
| CO3                 | 3    | 3    | 3   | 3    | 3    | 2    | -   | 2   | 2    | 2    |
| CO4                 | 3    | 3    | 3   | 3    | 3    | 3    | -   | 2   | 3    | 3    |
| Weighted<br>Average | 2.75 | 2.75 | 3   | 2.75 | 2.75 | 2.25 | -   | 2   | 2.25 | 1.75 |

1: Low, 2: Moderate, 3: High

**SC****CRYPTOGRAPHY AND NETWORK SECURITY****3:1:0****Objectives:**

- Understand the principles Computer Security.
- Learn conventional cryptosystem.
- Know public key cryptosystem
- Have a detailed knowledge about authentication, hash functions and application level security mechanisms.

**Outcomes:**

- Implement the principles and practices of cryptographic techniques.
- Build simple cryptosystems by applying encryption algorithms.
- Comprehend secure identity management (authentication), message authentication, and digital signature techniques.
- Employ the authentication protocol and web security methods.

**Unit I: Computer Security Concepts and Classical Encryption Techniques**

Introduction-computer security concepts, attacks, security services, security mechanisms; Classical encryption techniques-symmetric cipher models, substitution techniques, transposition techniques, rotor machines

**Unit II: Block Ciphers-DES and Introduction to Public Key Cryptography**

Symmetric ciphers-Block cipher principles; DES-Algorithm, strengths and weaknesses of DES, attacks on DES and defense, multiple encryptions; Asymmetric ciphers-Essential mathematics, public key cryptography,

**Unit III: RSA, MAC and Digital Signatures**

RSA, Diffie Hellman key exchange, random number generation, Data integrity and authentication Hash functions; MAC; Digital signatures;

**Unit IV: Key Management, Authentication and System Security**

Key management; Authentication, Web and system security, Web security; IP security; E mail security; System security-intruders, malicious software, firewalls

**References:**

1. Cryptography and Network Security -Principles and Practice - William Stallings, PEARSON.
2. Cryptography and Network Security -AtulKahate, Tata McGraw Hill.



Course articulation matrix:

| PO               | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|------------------|------|------|------|------|------|------|------|------|------|-------|
| CO               |      |      |      |      |      |      |      |      |      |       |
| CO1              | 3    | 3    | 3    | 3    | 3    | 2    | -    | 1    | 2    | 3     |
| CO2              | 3    | 3    | 3    | 3    | 3    | 2    | -    | 1    | 2    | 3     |
| CO3              | 3    | 2    | 3    | 3    | 3    | 2    | 1    | 1    | 2    | 3     |
| CO4              | 3    | 2    | 3    | 3    | 3    | 3    | 1    | 1    | 2    | 3     |
| Weighted Average | 3    | 2.5  | 3    | 3    | 3    | 2.25 | 1    | 1    | 2    | 3     |

1: Low, 2: Moderate, 3: High

**SC****THEORY OF LANGUAGES AND AUTOMATA****3:0:1****Objectives:**

- Introduce concepts in automata theory and theory of computation.
- Identify different formal language classes and their relationships.
- Design grammars and recognizers for different formal languages.
- Prove or disprove theorems in automata theory using its properties.

**Outcomes:**

- Acquire a fundamental understanding of the core concepts in automata theory and formal languages.
- Design grammars and automata (recognizers) for different language classes.
- Identify formal language classes and prove language membership properties.
- Prove and disprove theorems establishing key properties of formal languages and automata.

**Unit I:**

Brief introduction to Formal Proof: Deductive Proofs, Proving equivalences about sets, the contrapositive, Proof by contradiction, Counterexamples, Central concepts of automata theory: Alphabets, strings, languages.

Finite Automata: Deterministic Finite Automata, Nondeterministic Finite Automata, Equivalence of DFA and NFA, Finite Automata with Epsilon transitions.

**Unit II:**

Regular Expressions, Finite Automata and Regular Expressions: Converting DFAs to regular expressions by eliminating states, converting regular expressions to automata, Applications of regular expressions, Brief overview of algebraic laws of regular expressions.

Properties of Regular Languages: The pumping lemma for regular languages, Applications of the pumping lemma, Closure properties and decision properties of regular languages (proofs not necessary), Minimization of DFAs

**Unit III:**

Context-Free Grammars, Parse Trees, Applications of context-free grammars, Ambiguity in grammars and languages.

Pushdown Automata : Definition, Languages of a PDA, Equivalence of PDAs and CFGs, Deterministic Pushdown Automata.

Normal Forms for Context-free grammars

**Unit IV:**

The pumping lemma for context-free languages, Closure properties of context-free languages (proofs not necessary).

Brief introduction to Turing Machine: Notation for Turing Machine, Instantaneous descriptions for Turing Machines, Transition Diagrams for Turing Machine. Definition of Post's Correspondence Problem.

**References:**

1. Introduction to Automata Theory, Languages and Computation - Hopcroft J. E and Ullman, J.D, Narosa Publishing House, Delhi.
2. Introduction to Languages and Theory of Computation, -John C Martin 3<sup>rd</sup> edition. TMH Publication.

Course articulation matrix:

| PO               | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|------------------|------|------|------|------|------|------|------|------|------|-------|
| CO               |      |      |      |      |      |      |      |      |      |       |
| CO1              | 2    | 3    | 3    | 3    | 1    | -    | -    | -    | 2    | 2     |
| CO2              | 2    | 3    | 3    | 3    | 1    | -    | -    | -    | 1    | 2     |
| CO3              | 2    | 3    | 3    | 3    | 1    | -    | -    | -    | 1    | 2     |
| CO4              | 2    | 3    | 3    | 3    | 1    | -    | -    | -    | 1    | 2     |
| Weighted Average | 2    | 3    | 3    | 3    | 1    | -    | -    | -    | 1.25 | 2     |

1: Low, 2: Moderate, 3: High

**SC****PROBABILITY AND STATISTICS****3:1:0****Objectives:**

- Extend and formalize knowledge of the theory of probability and random variables.
- Introduce new techniques for carrying out probability calculations and identifying probability distributions.
- Understand the concepts and techniques in Mathematical Expectation.
- Understand the Statistical hypotheses and its significance.

**Outcomes:**

- Apply axioms and theorems to describe events and compute probabilities also identify the types of random variables and calculate relevant probabilities.
- Analyse the different Techniques in Continuous Probability Distribution.
- Describe an appropriate statistical model for the given data and compute population parameters using appropriate estimators.
- Describe the Tests of Hypotheses, Types of errors, test for Significance, regression and curve fitting

**Unit I:**

Probability: The concept of probability, the axioms and theorems, conditional probability, Independent Event's, Bayes Theorem. Random Variables and Probability Distributions:

Random variables, discrete probability distributions and Distribution functions: Bernoulli, Binomial, Hyper Geometric, Geometric, Poisson, Uniform.

**Unit II:**

Continuous Probability distribution and Distributions functions: Exponential, Normal, Uniform, Concepts of Chi square, t joint Distributions, Independent random variables, Functions of random Variables.

**Unit III:**

Mathematical Expectation: Definition, Functions of Random variables. The variance and Standard Deviation, Moments, Moment Generating Functions, Covariance, Correlation Coefficient. Sampling Theory & Estimation: Population and sample, Random Sampling with and without replacement, the sample mean, sampling distribution of means, proportions, differences. The sample variance, the sample distribution of variances, Point estimates, Interval estimates. Variance analysis.

**Unit IV:**

Tests of Hypotheses and Significance: Statistical Decisions, Statistical hypotheses, Null Hypotheses, Tests of hypotheses and significance, Type I and Type II errors, level of significance, Tests involving the Normal distribution, One-Tailed and Two-tailed, Special tests of Significance for large and small samples, The Chi-square test for goodness of fit. Introduction to regression and curve fitting.

**References:**

1. Fundamentals of Statistics - S C Gupta and V K Kapoor.
2. Fundamentals of Statistics - S C Gupta.
3. Probability and Statistics with Reliability, Queuing and Computer Applications -Jusgir S Trivedi, Prentice Hall of India.
4. Probability, Random Variables and Stochastic Processes - Papoulis and S. Unnikrishna Pillai, McGraw Hill, 4th Edition.
5. Probability and Statistics for Engineers- Richard A Johnson, Prentice Hall India.

Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO1                 | 2    | 3    | 3    | 2    | 3    | 1    | -    | -    | 2    | 2     |
| CO2                 | 2    | 3    | 3    | 3    | 3    | -    | -    | -    | 2    | 2     |
| CO3                 | 2    | 3    | 3    | 3    | 3    | 1    | -    | -    | 1    | 2     |
| CO4                 | 2    | 3    | 3    | 3    | 3    | -    | -    | -    | 2    | 2     |
| Weighted<br>Average | 2    | 3    | 3    | 2.75 | 3    | 2    | -    | -    | 1.75 | 2     |

1: Low, 2: Moderate, 3: High

**SC****FUNDAMENTALS OF INTERNET OF THINGS****3:1:0****Objectives:**

- Learn the impact of IoT applications and architectures in real world.
- Illustrate the various methods of deploying smart objects and connect them to network.
- Infer the role of IoT in Industry.
- Understand the role of IoT in Smart and Connected Cities and Public Safety.

**Outcomes:**

- Interpret the impact of IoT networks in new architectural models.
- Compare and contrast the deployment of smart objects and technologies to connect them as network.
- Elaborate the need of IoT Access Technologies.
- Identify the application of IoT in Smart and Connected Cities and Public Safety.

**Unit I: Basics of IoT**

Introduction to IoT, Genesis of IoT, IoT and Digitization, IoT Impact, Convergence of IT and OT, IoT Challenges, IoT Network Architecture and Design, Drivers Behind New Network Architectures, A Simplified IoT Architecture, The Core IoT Functional Stack.

**Unit II: Smart Objects and Access Technologies**

Smart Objects: The “Things” in IoT, Sensors, Actuators, and Smart Objects, Sensor Networks, Connecting Smart Objects, Communications Criteria, IoT Access Technologies (Any Three)

**Unit III: IoT in Industry**

IoT in Industry: Smart and Connected Cities-An IoT Strategy for Smarter Cities, Smart City IoT Architecture, Smart City Security Architecture, Smart City Use-Case Examples-Smart Traffic Control.

**Unit IV: Public Safety**

Overview of Public safety, An IoT Blueprint for public safety, Emergency Response IoT Architecture, IoT Public Safety Information Processing.

**References:**

1. IoT Fundamentals: Networking Technologies, Protocols, and Use Cases for the Internet of Things- David Hanes, Gonzalo Salgueiro, Patrick Grossetete, Robert Barton, Jerome Henry, 1<sup>st</sup> Edition, Pearson Education.
2. Internet of Things- Srinivasa K G, CENGAGE Learning India.
3. Internet of Things (A Hands-on-Approach)-Vijay Madiseti and ArshdeepBahga, 1<sup>st</sup>Edition, VPT.
4. Internet of Things: Architecture and Design Principles - Raj Kamal,1<sup>st</sup>Edition, McGraw Hill Education.

Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO 1                | 3    | 3    | 2    | 2    | 2    | -    | -    | -    | 2    | 2     |
| CO 2                | 2    | 2    | 2    | 2    | 2    | -    | -    | -    | 2    | 2     |
| CO 3                | 3    | 3    | 3    | 2    | 2    | -    | -    | -    | 2    | 2     |
| CO 4                | 2    | 3    | 2    | 1    | 2    | -    | 1    | 1    | 2    | 2     |
| Weighted<br>Average | 2.5  | 2.75 | 2.25 | 1.75 | 2    | -    | 1    | 1    | 2    | 2     |

1: Low, 2: Moderate, 3: High

**SC****MOBILE APPLICATION DEVELOPMENT WITH ANDROID****3:0:1****Objectives:**

- Learn to build simple android applications.
- Get an understanding of essentials of application design and user interface design.
- Understand different android APIs used to store and manage the data through SQLite.
- Understanding different android networking and web APIs to share the data between the applications.

**Outcomes:**

- Build sample android application.
- Develop user interfaces for android applications.
- Develop android applications to share data between different applications.
- Deploy android applications.

**Unit I: Introduction to Android**

History of Mobile Software Development, Open Handset Alliance, Android Platform Android SDK, Building a sample Android application, Anatomy of Android applications, Android terminologies.

**Unit II: Android Application Design Essentials**

Application Context, Activities, Services, Intents, Receiving and Broadcasting Intents, Android Manifest File and its common settings , Using Intent Filter, Permissions , Managing Application resources in a hierarchy , Working with different types of resources.

**Unit III: Android User Interface Design Essentials**

User Interface Screen elements, Designing User Interfaces with Layouts, Drawing and Working with Animation.

**Unit IV: Using Android APIs**

Brief Introduction on these: Using Android Data and Storage APIs, Managing data using SQLite, Sharing Data between Applications with Content Providers, Using Android Networking APIs, Using Android Web APIs, Using Android Telephony APIs, Deploying (selling) your Android application

**References:**

1. “Android Wireless Application Development”, Lauren Darcey and Shane Conder, 2nd edition, Pearson Education.
2. “Professional Android 2 Application Development”, Reto Meier, Wiley India.
3. “Beginning Android”, Mark L Murphy, Wiley India.
4. “Pro Android”, Sayed Y Hashimi and Satya Komatineni, Wiley India.



Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO 1                | 3    | 3    | 2    | 3    | 2    | 2    | -    | 1    | 2    | 2     |
| CO 2                | 3    | 3    | 3    | 3    | 3    | 2    | -    | 2    | 2    | 2     |
| CO 3                | 3    | 3    | 3    | 3    | 2    | 3    | -    | 2    | 3    | 3     |
| CO 4                | 3    | 3    | 3    | 3    | 3    | 2    | -    | 2    | 3    | 3     |
| Weighted<br>Average | 3    | 3    | 2.75 | 3    | 2.50 | 2.25 | -    | 1.75 | 2.5  | 2.5   |

1: Low, 2: Moderate, 3: High

**SC****LINUX PROGRAMMING****3:0:1****Objectives:**

- Understand and make effective use of Linux utilities and Shell scripting language (bash) to solve Problems.
- Implement in C some standard Linux utilities such as ls, mv, cp etc. using system calls.
- Develop the skills necessary for systems programming including file system programming, process and signal management, and interprocess communication.
- Develop the basic skills required to write network programs using Sockets.

**Outcomes:**

- Work confidently in Linux environment with an understanding of the architecture and shell programming.
- Work with sed/awk and gain ability to write programs using file and directory related system calls
- Ability to handle processes using process related system calls
- Ability to write communicating programs using different IPC mechanisms and Berkeley sockets.

**Unit I:**

A brief history of Unix and Linux, Architecture, Features.

**Unix/Linux Shell :**Linux shell commands for getting help: Commands for getting help :whatism, man, info, apropos.

Useful unix/linux shell commands :pwd, whoami, who, ls, env, echo, history, passwd, cat, more, less, file, chmod, chown, cp, mv, mkdir, rmdir, whereis, which, locate, ln.

Quick overview of basic Linux Utilities: File handling utilities, links: hard and symbolic links, Security by file permissions, Process utilities, Disk utilities, Networking commands, Filters: grep, Text processing utilities and Backup utilities.

Shell programming with Bourne again shell(bash)- Introduction, shell responsibilities, tab completion, pipes and Redirection, here documents, running a shell script, the shell as a programming language, shell meta characters, file name substitution, shell variables, command substitution, shell commands, the environment, quoting, test command, control structures, arithmetic in shell, shell script examples.

**Unit II:****Sed and Awk:**

Sed: Scripts, Operation, Addresses, Commands.

Awk: Execution, Fields and Records, Scripts, Operation, Patterns, Actions, Associative Arrays, String and Mathematical functions, System commands in awk, Applications.

**System Calls:**

**Files and Directories:** File Concept, File types, File System Structure, file metadata: inodes, kernel support for files, system calls for file I/O operations: open, create, read, write, close, lseek, dup2, file status information: stat family, fcntl, file permissions: chmod, fchmod, file ownership: chown, lchown, symbolic and hard links: symlink, link, unlink.

**Directories:** Creating, removing and changing Directories: mkdir, rmdir, chdir, obtaining current working directory: getcwd, Directory contents, Scanning Directories: opendir, readdir, closedir, rewinddir functions.

**Unit III:**

**Process :** Process concept, Layout of a C program image in main memory. Process environment :environment list, environment variables, getenv, setenv, Kernel support for process, process identification, process control : process creation, replacing a process image, waiting for a process, process termination, zombie process, orphan process, system call interface for process

management-fork, vfork, exit, wait, waitpid, exec family, Process Groups, Sessions and Controlling Terminal, Differences between threads and processes.

**Unit IV:**

**Inter process Communication:** Introduction to IPC, IPC between processes on a single computer system, IPC between processes on different systems, pipes-creation, IPC between related processes using unnamed pipes, FIFO: creation, IPC between unrelated processes using FIFOs(Named pipes), differences between unnamed and named pipes, popen and pclose library functions.

**Sockets:** Introduction to Berkeley Sockets, IPC over a network, Client-Server model, Socket address structures (unix domain and Internet domain), Socket system calls for connection oriented protocol and connectionless protocol, example: client/server programs-Single Server-Client connection, Comparison of IPC mechanisms.

**References:**

- 1. Linux “man” pages and “info” pages.
- 2. The Linux Documentation Project : <http://www.tldp.org/>
- 3. Unix Concepts and Applications - Sumitabha Das, 4th Edition, TMH.
- 4. Beej's Guide to Network Programming : <https://beej.us/guide/bgnet/>
- 5. Advanced Programming in the UNIX Environment - , Richard W. Stevens, Stephen A. Rago, Second Edition, Addison-Wesley.
- 6. Unix Network Programming - Richard W. Stevens , PHI.
- 7. System Programming using C++ - T. Chan, PHI.
- 8. Beginning Linux Programming - N. Mathew, R. Stones, 4th Edition, Wrox, Wiley India Edition.
- 9. C Programming Language - Brian W. Kernighan, Dennis M. Ritchie, PHI.

**Course articulation matrix:**

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO 1                | 3    | 2    | 1    | -    | -    | 2    | -    | -    | 1    | 1     |
| CO 2                | 3    | 2    | 1    | -    | -    | -    | -    | -    | 1    | 1     |
| CO 3                | 3    | 2    | 1    | 1    | -    | -    | -    | -    | 1    | 1     |
| CO 4                | 3    | 2    | 1    | 1    | -    | -    | -    | -    | 1    | 1     |
| Weighted<br>Average | 3    | 2    | 1    | 1    | -    | 2    | -    | -    | 1    | 1     |

**1: Low, 2: Moderate, 3: High**

**SC****INFORMATION RETRIEVAL****3:0:1****Objectives:**

- Become familiar with difference between Information retrieval and data Base Management Systems.
- Learn different indexing techniques used in retrieval system.
- Understand the concepts of cluster analysis.
- Understand the text classification techniques.

**Outcomes:**

- Locate relevant information in large collections of data.
- Impart features of retrieval systems for Text data.
- Analyze the performance of retrieval systems using test collection.
- Implement different clustering algorithms.

**Unit I: Boolean retrieval and classical models**

An example information retrieval problem, A first take at building an inverted index, Processing Boolean queries; The term vocabulary and postings lists: Document delineation and character sequence decoding, Determining the vocabulary of terms, Faster posting list intersection via skip pointers, Positional postings and phrase queries. Index construction – Blocked sort-based indexing, Single-pass in-memory indexing, Distributed indexing, dynamic indexing, other types of indexes.

**Unit-II: Computing scores in a complete search system**

Efficient scoring and ranking, components of an information retrieval system, vector space scoring and query operator interaction, information retrieval system evaluation, Standard test collections, Evaluation of unranked and ranked retrieval results, Assessing relevance, A broader perspective: System quality and user utility, Results snippets

**Unit-III: Data Cluster analysis**

Introduction to Cluster Analysis, Different Types of clustering's, Different types of clusters, Kmeans – the basic K-means algorithm, additional Issues, K – means and different types of clusters, Strengths and weaknesses, K – means as an optimization Problem, DBSCAN – Center based approach, The DBSCAN Algorithm, Strengths and weaknesses, Fuzzy Clustering, Minimum spanning tree clustering

**Unit-IV: Text classification and naive bayes**

The text classification problem, Naive bayes text classification, properties of Naive bayes, feature selection; Support vector machines and machine learning on documents - Support vector machines: The linearly separable case, Issues in the classification of text documents, Machine – learning methods in ad hoc information retrieval; Web search basics – Background and history, Web characteristics, Advertising as the economic model, The search user experience;

**References:**

1. Introduction to information Retrieval – Christopher D.Manning, PrabhakarRaghavan, HinrichSchutze, Cambridge University Press.
2. Introduction to Data Mining – Pang – Ning Tan, Vipin Kumar, Michael Steinbach, Pearson.
3. Information Retrieval: Algorithms and Heuristics - David A. Grossman, Ophir Frieder, Second Edition, Springer.

Course articulation matrix:

| PO               | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|------------------|------|------|------|------|------|------|------|------|------|-------|
| CO               |      |      |      |      |      |      |      |      |      |       |
| CO 1             | 1    | 3    | 2    | -    | 2    | 2    | -    | -    | 1    | 1     |
| CO 2             | -    | 3    | 3    | 2    | 2    | -    | -    | -    | 1    | 1     |
| CO 3             | 1    | 3    | 3    | 2    | 2    | -    | -    | -    | 1    | 1     |
| CO 4             | 1    | 3    | 3    | 2    | 2    | -    | -    | -    | 1    | 1     |
| Weighted Average | 1    | 3    | 2.75 | 2    | 2    | 2    | -    | -    | 1    | 1     |

1: Low, 2: Moderate, 3: High

**SC****BIG DATA ANALYTICS****3:0:1****Objectives:**

- Understand the Big Data Ecosystem.
- Introduce the students to Hadoop.
- To understand the concepts of Map Reduce and MongoDB
- To understand data Analysis using R

**Outcomes:**

- Apply the Data Analytics Life Cycle to real life cases.
- Process Data with Hadoop.
- Apply the necessary techniques for data analytics.
- Demonstrate Data Analysis using R.

**Unit I: Introduction to Big Data Analytics.**

Big Data Overview, State of the Practice in Analytics, Key Roles for the New Big Data Ecosystem, Examples of Big Data Analytics, Data Analytics Lifecycle Overview, Phase 1: Discovery, Phase 2: Data Preparation, Phase 3: Model Planning, Phase 4: Model Building , Phase 5: Communicate Results, Phase 6: Operationalize.

**Unit II: Introduction to Hadoop**

Introducing Hadoop, Why Hadoop?, Why not RDBMS? RDBMS versus Hadoop, Distributed Computing Challenges, History of Hadoop, Hadoop Overview, Use Case of Hadoop, Hadoop Distributors, HDFS (Hadoop Distributed File System), Processing Data with Hadoop, Managing Resources and Applications with Hadoop YARN (Yet Another Resource Negotiator), Interacting with Hadoop Ecosystem.

**Unit III: Introduction to MAPREDUCE Programming and Mongo DB**

Introduction, Mapper, Reducer, Combiner, Partitioner, Searching, Sorting, Compression, Introduction to MongoDB, Situation where MongoDB is useful, Terms Used in RDBMS and MongoDB, Data Types in MongoDB, MongoDB Query Language.

**Unit IV: Review of Basic Data Analytic Methods Using R**

Introduction to R, Exploratory Data Analysis.

**REFERENCES:**

1. Data Science & Big Data Analytics: Discovering, Analyzing, Visualizing and Presenting Data, EMC Education Services, John Wiley & Sons, Inc.
2. Big Data and Analytics, 2ed, Seema Acharya, Subhashini Chellappan, Wiley.
3. Data Science and Analytics, V.K.Jain, Khanna Publishing.
4. Big Data Analytics, M. Vijayalakshmi, Radha Shankarmani, Wiley

Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO 1                | 3    | 2    | 2    | 2    | 3    | 1    | -    | -    | -    | -     |
| CO 2                | 3    | 3    | 2    | 3    | 3    | 1    | -    | 1    | 2    | 1     |
| CO 3                | 3    | 2    | 3    | 3    | 3    | 2    | -    | 2    | 3    | 3     |
| CO 4                | 3    | 2    | 3    | 3    | 3    | 2    | -    | 2    | 3    | 3     |
| Weighted<br>Average | 3    | 2.25 | 2.5  | 2.75 | 3    | 1.5  | -    | 1.25 | 2    | 1.75  |

1: Low, 2: Moderate, 3: High

**SC****MACHINE LEARNING USING PYTHON****3:0:1****Objectives:**

- Understanding the importance of Machine Learning and demonstrate the use of data frames in Python
- Analyze the process of model building and evaluation
- Comprehend various classification problems
- Discuss the libraries required to implement the techniques of Machine Learning.

**Outcomes:**

- Identify the need for Machine Learning using Python, appropriate data frames and its operations.
- Ability to build and validate linear regression models
- Ability understand different classification techniques and build classification models
- Ability to use unsupervised learning techniques to cluster data and Apply Scikit library for Machine Learning.

**UNIT – I: Introduction to Machine Learning**

Introduction to Analytics and Machine Learning, Need for Machine Learning, Framework for Developing Machine Learning Models, Python for Machine Learning, Python Stack for Data Science, Getting Started with Anaconda Platform, Introduction to Python.

Descriptive Analytics: Working with Data Frames in Python, Handling Missing Values, Exploration of Data using Visualization

**UNIT – II: Linear Regression**

Simple Linear Regression, Steps in Building a Regression Model, Building Simple Linear, Regression Model, Model Diagnostics, Multiple Linear Regression.

**UNIT – III: Classification Problems**

Classification Overview, Binary Logistic Regression, Credit Classification, Gain Chart and Lift Chart, Classification Tree (Decision Tree Learning).

**UNIT – IV: Advanced Machine Learning and Clustering**

Scikit-Learn Library for Machine Learning Advanced Machine Learning Algorithms. Clustering: Overview, How Does Clustering Work?, K-Means Clustering, Creating Product Segments Using Clustering, Hierarchical Clustering.

**References**

1. Machine Learning using Python, Manaranjan Pradhan, U Dinesh Kumar, Wiley India Pvt. Ltd., 2019
2. Practical Programming: An introduction to Computer Science Using Python, second edition, Paul Gries, Jennifer Campbell, Jason Montojo, The Pragmatic Bookshelf, 2013.
3. Learning with Python: How to Think Like a Computer Scientist Paperback – Allen Downey, Jeffrey Elkner, 2015.
4. Python Data Science Handbook: Essential tools for working with data, Jake Vander plas, O'Reilly Publishers, 1<sup>st</sup> Edition.
5. Hands-On Machine Learning with Scikit-Learn and TensorFlow Concepts, Tools, and Techniques to Build Intelligent Systems, Aurelien Geron, O'Reilly Publisher, I edition, 2017



Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO1                 | 3    | 3    | 3    | 3    | 3    | 2    | -    | -    | 3    | 3     |
| CO2                 | 3    | 3    | 3    | 3    | 3    | 2    | -    | -    | 3    | 3     |
| CO3                 | 3    | 3    | 3    | 3    | 3    | 3    | -    | -    | 3    | 3     |
| CO4                 | 3    | 3    | 3    | 3    | 3    | 2    | -    | -    | 3    | 3     |
| Weighted<br>Average | 3    | 3    | 3    | 3    | 3    | 2.25 | -    | -    | 3    | 3     |

1: Low, 2: Moderate, 3: High

**SC****ADVANCED JAVA****3:0:1****Objectives:**

- Define JDBC and describe the various JDBC drivers.
- List the advantages and explain the life cycle of a servlet.
- Understand various types of properties in Java beans.
- To Know the applications of Java Server Pages.

**Outcomes:**

- Develop component-based Java software using JavaBeans.
- Develop server-side programs in the form of servlets.
- Implement Entity Java bean in stateless and stateful environment.
- Employ the concepts of EJB and JAR files.

**Unit I: J2EE overview and JDBC**

The ABC of Programming Languages, Taking Programming Languages up a notch, Distributive Systems – Real Time Transmissions, Software objects, Web services, The Tier – Clients, Resources and Components, J2EE Multi – Tier Architecture, Client tier implementation, Enterprise Application Strategy, A new Strategy, The Enterprise Application.

**Unit II: Servlets**

Introduction, Life cycle of servlet, A simple Java servlet, Anatomy of Java servlet – Deployment Descriptor, Reading Data from a client, Reading HTTP Request Headers, Sending Data to a client and writing the HTTP Response Header, Cookies and Tracking Sessions

**Unit III: Java Server Pages**

Introduction, JSP tags – Variables and Objects, Methods, Control statements, Loops, Tomcat, Request String, User Sessions, Cookies, Session objects

**Unit IV: Enterprise JavaBeans**

Introduction, EJB containers, classes and interfaces, Deployment Descriptors – Anatomy, Environment Elements, Referencing EJB and other resources, query element; Session Java Bean- Stateless and stateful, creating a session java bean; Entity Java Bean – Container Managed Persistence, Bean Managed Persistence; The JAR File

**References:**

1. The Complete Reference J2EE, Jim Keogh, 1<sup>st</sup> edition, McGraw Hill Education.
2. Core and Advanced Java, Black Book, Dreamtech Press.

**Course articulation matrix:**

| PO                      | Program Outcomes |             |             |            |          |          |          |          |            |             |
|-------------------------|------------------|-------------|-------------|------------|----------|----------|----------|----------|------------|-------------|
| CO                      | PO 1             | PO 2        | PO 3        | PO 4       | PO 5     | PO 6     | PO 7     | PO 8     | PO 9       | PO 10       |
| CO 1                    | 3                | 2           | -           | 1          | 3        | -        | -        | -        | -          | 2           |
| CO 2                    | 3                | 2           | 2           | 2          | 3        | -        | -        | -        | 2          | 3           |
| CO 3                    | 3                | 3           | 3           | 2          | 3        | -        | -        | -        | 2          | 3           |
| CO 4                    | 3                | 2           | 2           | 1          | 3        | -        | -        | -        | 2          | 3           |
| <b>Weighted average</b> | <b>3</b>         | <b>2.25</b> | <b>1.75</b> | <b>1.5</b> | <b>3</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>1.5</b> | <b>2.75</b> |

**1: Low, 2: Moderate, 3: High**

**SC****MANAGEMENT INFORMATION SYSTEMS****3:1:0****Objectives:**

- Understand the role information system in business.
- Learn different functional business management systems.
- Understand e-commerce applications and decision support systems.
- Analyzing security and ethical challenges in IT.

**Outcomes:**

- Explain the role of IS in business.
- Ability to explain different enterprise management and functional management systems in business.
- Identify the applications of e-commerce and issues of e-commerce.
- Understand decision support systems.

**Unit I: Information System Concepts**

Information Systems in Business: Introduction, The real world of Information Systems, The fundamental role of IS in business, Trends in IS, Types of Information systems, Managerial challenges of IT.

System Concepts: A foundation, Components of an Information System, Information System Resources, Information System activities, Recognizing Information Systems.

**Unit II: Enterprise Business Systems and Functional Business System**

Enterprise Business Systems: Introduction, Cross-functional enterprise applications, Enterprise application integration, Transaction processing systems, Enterprise collaboration systems. Functional Business Systems: Introduction, Marketing systems, Manufacturing systems, Human resource systems, Accounting systems, financial management systems.

Customer relationship management: Introduction, Introduction to CRM, The three phases of CRM, Benefits and challenges of CRM, Trends in CRM, Enterprise resource planning: Introduction, Introduction to ERP, Benefits and challenges of ERP, Trends in ERP. Supply chain Management: Introduction, Introduction to SCM, The role of SCM, Benefits and challenges of SCM, Trends in SCM

**Unit III: Electronic Commerce and Decision Support Systems**

Electronic commerce fundamentals: Introduction, The scope of e-commerce, Essential e-commerce, processes, Electronic payment processes.

e-Commerce applications and issues: E-commerce application trends, Business-to- Consumer e-commerce, Web store requirements, Business-to-Business e-commerce, e-commerce marketplaces, Clicks and bricks in ecommerce.

Decision Support Systems- Decision support in business: Introduction, Decision support trends, Decision support systems (DSS), Management Information Systems, On-line analytical processing, Using DSS, Executive information systems, Enterprise portals and decision support, Knowledge management systems, Business and Artificial Intelligence (AI), An overview of AI, Expert systems.

**Unit IV: Security and Ethical Challenges, Security Management in IT**

Security and Ethical Challenges: Security, Ethical and societal challenges of IT: Introduction, Ethical responsibility of business professionals, Computer crime, Privacy issues, other challenges, Health issues, societal solutions. Security management of IT: Introduction, Tools of security management, Internetworked security defenses, other security measures, System Controls and audits.

References:

- 1. Management information systems- managing information technology in the internet worked enterprise, James A. O'Brien, George M. Marakas, 7<sup>th</sup> edition, Tata McGraw-Hill Publishing Company Limited.
- 2. Management information systems, S Sadogopan, 2<sup>nd</sup> edition, PHI.
- 3. Information systems for modern management, Robert G. Murdick, 3<sup>rd</sup> edition PHI.

Course articulation matrix:

| PO<br>CO            | PO1 | PO2 | PO3 | PO4 | PO5  | PO6  | PO7 | PO8 | PO9 | PO10 |
|---------------------|-----|-----|-----|-----|------|------|-----|-----|-----|------|
| CO1                 | 2   | -   | 2   | 2   | 1    | 1    | -   | -   | -   | 1    |
| CO2                 | 2   | -   | 2   | 2   | 2    | 2    | -   | -   | -   | 1    |
| CO3                 | 1   | -   | 3   | 3   | 2    | 1    | -   | -   | -   | 1    |
| CO4                 | 1   | -   | 3   | 3   | 2    | 1    | -   | -   | -   | 1    |
| Weighted<br>Average | 1.5 | -   | 2.5 | 2.5 | 1.75 | 1.25 | -   | -   | -   | 1    |

1: Low, 2: Moderate, 3: High

**SC****BUSINESS INTELLIGENCE****3:1:0****Objectives:**

- Understand the basics of Business Intelligence and its evolution.
- Know the concepts of querying, reporting and OLAP architecture.
- Learn about the Business Intelligence lifecycle and its methodologies.
- Get an overview of various technologies associated with Business Intelligence.

**Outcomes:**

- Acquire the knowledge on Business Intelligence methodologies.
- Comprehend the User models of Business Intelligence in real time scenarios.
- Employ the lifecycle strategies on various BI capabilities.
- Compare and contrast various BI implementations in major companies.

**Unit I: Introduction and Basics**

Understanding Business Intelligence: Limited Resources, Limitless Decisions, Business Intelligence Defined: No CIA Experience Required, BI's Big Four, The BI Value Proposition, A Brief History of BI, Data collection from stone tablets to databases, BI's Split Personality: Business and Technology, BI: The people perspective; Meeting the BI Challenge: The BI Spectrum- Enterprise versus departmental BI, Strategic versus tactical business intelligence, Power versus usability in BI tools, Reporting versus predictive analytics

**Unit II: Business Intelligence User Models and OLAP**

Basic Reporting and Querying: Querying and reporting in context, Reporting and querying toolkit characteristics, Self-Service Reporting and Querying, Building and using ad-hoc queries, building simple on-demand self-service reports, Adding capabilities through managed querying/reporting, Data Access: Classical BI: pull-oriented information access, Emerging BI: pushing critical insights to users. OLAP: Online Analytical Processing: OLAP in Context, OLAP Application Functionality, OLAP Architecture: The OLAP Cube, OLAP access tools. OLAP versus OLTP

**Unit III: The BI Lifecycle**

The BI Big Picture: So Many Methodologies, So Little Time, Starting at the beginning, The exception to the rule: Micro-BI, Customizing BI for Your Needs: Your not-so-clean slate, Initial activities, Selecting BI products and technologies, Taking a Closer Look at BI Strategy: The Big Picture, Your Current BI Capabilities (or Lack Thereof), Assessing your business infrastructure, Assessing the technology stack, top to bottom, Keep the good stuff, Throw out the bad stuff

**Unit IV: BI and Technology**

Data Warehouses and BI, consolidating information across silos, Structuring data to enable BI, Data Models, Dimensional data model, Other kinds of data models, Data Marts, Operational Data Stores, The BI Software Marketplace - A little history, Mergers and acquisitions Major Software Companies in BI – Oracle, Microsoft, SAP, IBM

**References:**

1. Business Intelligence For Dummies- Swain Scheps, 1<sup>st</sup> edition, Wiley publishing.
2. Business Intelligence and Analytics: Systems for Decision Support, Ramesh Shardha. 10<sup>th</sup> edition, Pearson, 2014.
3. Business analytics for managers: taking business intelligence beyond reporting, Gert H.N, 2<sup>nd</sup> edition, Wiley Publishing.

Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO 1                | 2    | 2    | 1    | 1    | -    | -    | -    | -    | 1    | 1     |
| CO 2                | 3    | 2    | 1    | 2    | -    | -    | -    | -    | 1    | 1     |
| CO 3                | 3    | 3    | 1    | 2    | -    | -    | -    | -    | 1    | 1     |
| CO 4                | 3    | 3    | 1    | 1    | -    | -    | -    | -    | 1    | 1     |
| Weighted<br>Average | 2.75 | 2.5  | 1    | 1.5  | -    | -    | -    | -    | 1    | 1     |

1: Low, 2: Moderate, 3: High

**SC****ENTREPRENEURSHIP DEVELOPMENT****3:1:0****Objectives:**

- To know the fundamentals of entrepreneurship
- To learn importance of women and rural entrepreneurship
- To understand different motivating factors for entrepreneurs
- To know essence and characteristics of management

**Outcomes:**

- Analyze the history and need for entrepreneurship
- Employ the functions of women and rural entrepreneurship
- Inculcating the behaviors of entrepreneurs
- Comprehend the need and importance of management

**Unit I: Entrepreneur & Entrepreneurship**

Introduction, Evolution of the concept of Entrepreneur, Characteristics of successful entrepreneurs, the charms of becoming of an Entrepreneur, The Entrepreneurial Decision Process, Functions of Entrepreneur, Need for an Entrepreneur, Types of Entrepreneurs, Concept of Entrepreneurship, Growth of Entrepreneurship in India.

**Unit II: Women and Rural Entrepreneurship**

Concept of Women Entrepreneur, Functions of Women Entrepreneurs, Growth of Women Entrepreneurship in India, Problems of Women Entrepreneur, Developing Women Entrepreneurship, Meaning of Rural Entrepreneurship, Need for Rural Entrepreneurship, Rural Entrepreneurship/Industrialization in Retrospect, Problems of Rural Entrepreneurship. How to develop Rural Entrepreneurship.

**Unit III: Entrepreneurial Motivation**

Meaning of Entrepreneurial Motivation, Motivational Cycle or Process, Entrepreneurial Motivating Factors, Entrepreneurial Motivational Behavior – Creativity, Self-Efficacy, Locus of control, Risk taking, Leadership, Communication

**Unit-IV: Management**

Meaning of Management, Characteristics of Management, Difference between Management and Administration, Management as Science, Art and Profession, Importance of Management, Scope of Management, Functions of Management, Management Process, Principles of Management.

**References:**

1. Entrepreneurial Development, S.S Khanka, 1<sup>st</sup> edition, S.Chand Publication.
2. Dynamics of Entrepreneurship Development, Vasant Desai, 6<sup>th</sup> edition, Himayala Publishing House.
3. Entrepreneurship: New Venture Creation, David H. Holt, Pearson Publication.

Course articulation matrix:

| PO<br>CO            | PO1  | PO2 | PO3  | PO4 | PO5 | PO6  | PO7 | PO8  | PO9  | PO10 |
|---------------------|------|-----|------|-----|-----|------|-----|------|------|------|
| CO1                 | 2    | -   | 3    | 2   | -   | 2    | 1   | 1    | 1    | 1    |
| CO2                 | 1    | -   | 1    | 1   | -   | 2    | 1   | 2    | 1    | 2    |
| CO3                 | -    | -   | 2    | 1   | -   | 2    | 1   | 1    | 1    | 1    |
| CO4                 | -    | -   | 1    | 1   | -   | 1    | 1   | 3    | 2    | 1    |
| Weighted<br>Average | 0.75 | -   | 1.75 | 1.5 | -   | 1.75 | 1   | 1.75 | 1.25 | 1.25 |

1: Low, 2: Moderate, 3: High



**SC****COMMUNICATION SKILLS****3:1:0****Objectives:**

- The factors governing good communication and how good communication skills can be developed.
- How good communication skills are a critical building block to both personal and business success.
- How to use effective communication skills in business.
- The need to modify communication depending on business situation and circumstances.

**Outcomes:**

- Understand and apply knowledge of human communication and language processes as they occur across various contexts from multiple perspectives.
- Understand and evaluate key theoretical approaches used in the interdisciplinary field of communication.
- Find, use, and evaluate primary academic writing associated with the communication discipline.
- Communicate effectively orally and in writing.

**Unit I**

Importance of communication, its basic model, formal and informal communications, barriers to communication, feedback and its effectiveness, Non- Verbal communication.

**Unit II**

Oral communication, Speaking: Paralanguage: Sounds, stress, intonation- Art of conversation – Presentation skills, – Public speaking- Expressing Techniques, understanding your audience, importance of listening, role of visual aids, persuasive communication.

**Unit III**

Written communication – Good writing – Styles and Principles – Text, Email, Memorandums, reports, Letters, resume writing.

**Unit IV**

Group Discussion, Interview skills- types of interviews, telephonic interview, Time management, Stress management.

**References**

1. Business Communication for Success, University Of Minnesota Libraries Publishing Edition, 2015.
2. Soft skills: know yourself & know the world, Dr. Alex K.
3. Basic Management skills for all, S J McGrath E H, 9th Edition, PHI Learning.

Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO 1                | -    | -    | -    | -    | 2    | -    | 3    | 3    | 2    | 3     |
| CO 2                | -    | -    | 3    | 3    | 2    | 3    | -    | 3    | 3    | 3     |
| CO 3                | -    | 3    | 3    | -    | 2    | 2    | -    | 3    | 3    | 3     |
| CO 4                | -    | -    | 3    | 3    | -    | 2    | -    | 3    | 3    | 3     |
| Weighted<br>Average | -    | 3    | 3    | 3    | 2    | 2.33 | 3    | 3    | 2.75 | 3     |

1: Low, 2: Moderate, 3: High

**SC****PROFESSIONAL ETHICS AND HUMAN VALUES****3:1:0****Objectives:**

- Understand the fundamentals of Human values.
- Know the concepts of engineering ethics and responsibilities.
- Learn about the Business Intelligence lifecycle and its methodologies.
- Get an overview of Global issues and its practices.

**Outcomes:**

- Implement the aspects of Human Values.
- Interpret the ethics of engineering and its associated responsibilities.
- Employ the code of ethics in their profession.
- Display the awareness of Global issues in Ethics.

**Unit I: Human Values**

Objectives, Morals, Values, Ethics, Integrity, Work ethics, Respect for others, living peacefully, Honesty, Courage, Valuing time, Cooperation, Commitment, Self-confidence, Challenges in the work place, Spirituality.

**Unit II: Engineering Ethics, Safety, Responsibilities and Rights.**

Overview, Senses of engineering ethics Variety of moral issues, Moral dilemma, Moral autonomy Profession, Models of professional roles, Responsibility, Self-control, Self-interest, Self-respect, Safety definition, Safety and risk, Risk analysis, Confidentiality, Employee rights, Whistle Blowing.

**Unit III: Engineering as Social Experimentation**

Engineering as experimentation, Engineers as responsible experimenters, Codes of ethics, Industrial standards, A balanced outlook on law, Case-Study.

**Unit IV: Global Issues**

Globalization, Multinational corporations, Environmental ethics, Computer ethics, Weapons development, Engineers as managers, Engineers as advisors in planning and policy making, Moral leadership.

**References:**

1. A Textbook on Professional Ethics and Human Values - R. S. Naagarazan, New age international publishers.
2. Human Values and Professional Ethics, Dr. Gurpreet Singh Uppal, 1st edition.
3. Human Values, Tripathi A. N., 3rd edition, New Age International Pvt Ltd Publisher.

**Course articulation matrix:**

| PO               | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| CO               |     |     |     |     |     |     |     |     |     |      |
| CO1              | -   | -   | -   | -   | -   | 2   | 3   | 2   | -   | 3    |
| CO2              | -   | 2   | -   | -   | -   | 2   | 3   | 2   | -   | 3    |
| CO3              | -   | -   | -   | -   | -   | 2   | 3   | 2   | -   | 3    |
| CO4              | -   | -   | -   | -   | -   | 2   | 3   | 2   | -   | 3    |
| Weighted Average | -   | 2   | -   | -   | -   | 2   | 3   | 2   | -   | 3    |

1: Low, 2: Moderate, 3: High

**SC****CYBER SECURITY****3:1:0****Objectives:**

- Understand cybercrime, legal issues and cyber offences.
- Make the students understand the various crimes using mobiles.
- Learn the tools and methods employed for committing cyber-crime.
- Impart the various topics relating to Computer Forensics.

**Outcomes:**

- Understand the concept of cybercrime and offenses.
- Analyze the problems relating to cyber-crimes using mobile phones.
- Demonstrate the various attacks of cyber-crime.
- Understand and apply Computer Forensics at problem areas.

**Unit I: Cybercrime and Cyber offenses**

Cybercrime: Introduction, Cybercrime definition and origins of the word, Cybercrime and information security, who are Cybercriminals, Classifications of cybercrimes, Cybercrime: The legal perspectives, Cybercrimes: An Indian perspective, Cybercrime and the Indian ITA 2000, a global Perspective on cybercrimes.

Cyber offenses: Introduction, How criminal plan the attacks, Social Engineering, Cyber stalking, Cybercafé and Cybercrimes, Botnets: the Fuel for Cybercrime.

**Unit II: Cybercrime: Mobile And Wireless Devices**

Cybercrime: Mobile and Wireless Devices: Introduction, Proliferation of Mobile and Wireless Devices, Trends in Mobility, Credit Card Frauds in Mobile and Wireless Computing Era, Security Challenges Posed by Mobile Devices, Registry Settings for Mobile Devices, Authentication Service Security, Attacks on Mobile/Cell Phones, Mobile Devices: Security Implications for Organizations, Organizational Measures for Handling Mobile Devices-Related Security Issues, Organizational Security Policies and Measures in Mobile Computing Era, Laptops.

**Unit III: Tools and Methods Used in Cybercrime**

Introduction, Phishing, Password Cracking, Key loggers and Spywares, Virus and Worms, Trojan Horses and Backdoors, Steganography, DoS and DDoS Attacks, SQL Injection, Buffer Overflow, Attacks on Wireless Networks.

**Unit IV: Computer Forensics**

Introduction, Historical background of cyber forensics, Digital forensics science, the need for computer forensics, cyber forensics and digital evidence, forensics analysis of email, digital forensics life cycle, Computer forensics and steganography, Forensics and social networking: The security/privacy threats, Challenges in computer forensics.

**References:**

1. Cyber Security, Nina Godbole, SunitBelapure, 1st edition, Wiley Publication.
2. Cyber Security & Global- Kenneth J. Knapp, Information Science Reference.
3. Information Systems Security, Nina Godbole, 1st edition, Wiley India.
4. Principles of Information Security, Michael E. Whitman, Herbert J. Mattord, 6th edition, Cengage Learning.
5. Cryptography and Network Security, William Stallings, 4th edition, Pearson Publication.

Course articulation matrix:

| PO<br>CO            | PO1 | PO2 | PO3  | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 |
|---------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|------|
| CO1                 | 2   | -   | 2    | 1   | 2   | 2   | 1   | -   | -   | 1    |
| CO2                 | 3   | -   | 3    | 3   | 2   | 2   | 1   | -   | -   | 1    |
| CO3                 | 2   | -   | -    | 2   | 2   | 1   | -   | -   | -   | -    |
| CO4                 | 1   | -   | 2    | 2   | 2   | 1   | -   | -   | -   | -    |
| Weighted<br>Average | 2   | -   | 1.75 | 2   | 2   | 1.5 | 0.5 | -   | -   | 0.5  |

1: Low, 2: Moderate, 3: High

**SC****SIMULATION AND MODELING****3:0:1****Objectives:**

- To make students understand the basic principles of Simulation, system components and its applications.
- To learn Properties of Random numbers, algorithms to generate Random numbers and Tests for Random numbers. .
- To understand different methods for random Variant generation.
- To learn Model Building, Verification and Validation of simulation models and also understand the different types of simulations with respect to output analysis.

**Outcomes:**

- Analyze the different Components of System and identify the Applications of Simulation.
- Implement different algorithms associated with generation of Random numbers and test for Random numbers.
- Implement different methods of generating the Random Variants.
- Analyze the different techniques in Verification and Validation of simulation models and the output analysis for different types of Simulations.

**Unit I: Introduction to Simulation**

Definition of Simulation, Simulation as an Appropriate and In appropriate tool, Applications of Simulation; Systems and System Environment, Components of a system, Model of a system, types and examples; discrete and continuous systems.

**Unit II: Random Number Generation**

Properties of Random Numbers, Generation of Pseudo-Random Numbers, Techniques for Generating Random Numbers, Tests for Random Numbers (Algorithms and Problems)- Frequency tests, Runs Tests, Gap tests.

**Unit III: Random Variate Generation**

Inverse Transform Technique, Direct Transformation for the normal Distribution; Convolution Method, Acceptance-Rejection Technique.

**Unit-IV: Verification and Validation of Simulation Models**

Model Building, Verification and Validation, Verification of Simulation Models, Calibration and Validation of models – Validating Input – Output Transformations; Output Analysis for a Single Model – Types of Simulations with Respect to Output Analysis, Output Analysis for Terminating Simulations, Output Analysis for steady state Simulations – Replication Method

**References:**

1. Discrete Event System Simulation – Jerry Banks, John S Carson II, Barry L Nelson, David M Nicol, Pearson Education Asia.
2. System Simulation - Geoffrey Gordon, Prentice Hall India.
3. System Simulation with Digital Computers - N. Deo, PHI.

Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO1                 | 2    | 1    | 1    | 1    | 1    | 1    | -    | 1    | 2    | 2     |
| CO2                 | 3    | 3    | 3    | 3    | 3    | -    | -    | 1    | 1    | 1     |
| CO3                 | 2    | 2    | 2    | 2    | 2    | -    | -    | -    | 1    | 1     |
| CO4                 | 2    | 2    | 2    | 1    | 2    | -    | -    | -    | 1    | 1     |
| Weighted<br>Average | 2.25 | 2    | 2    | 1.75 | 2    | 1    | 0    | 1    | 1.25 | 1.25  |

1: Low, 2: Moderate, 3: High

**SC****ARTIFICIAL INTELLIGENCE****3:1:0****Objectives:**

- To understand and identifying the problems where AI is required.
- To compare and contrast different AI techniques.
- To understand the concepts of knowledge Representation.
- To understand the NLP techniques.

**Outcomes:**

- Express the modern view of AI and its foundation.
- Illustrate Search Strategies with algorithms and Problems.
- Implement Proportional logic and apply inference rules.
- Apply suitable techniques for NLP and Game Playing.

**Unit-I: INTRODUCTION**

Introduction to AI, The Foundations of AI, AI Technique -Tic-Tac-Toe. Problem characteristics, Production system characteristics, Production systems: 8-puzzle problem. Intelligent Agents: Agents and Environments, Good Behavior: The concept of rationality – The nature of Environments, The Structure of Agents.

**Unit-II: LOCAL SEARCH ALGORITHM**

Searching: Uninformed search strategies – Breadth first search, depth first search. Generate and Test, Hill climbing, simulated annealing search, Constraint satisfaction problems, Greedy best first search, A\* search, AO\* search.

**Unit-III : KNOWLEDGE REPRESENTATION**

Propositional logic - syntax & semantics - First order logic. Inference in first order logic, propositional Vs. first order inference, unification & lifts, Clausal form conversion, Forward chaining, Backward chaining, Resolution.

**Unit-IV: GAME PLAYING, PLANNING and NLP**

Overview, Minimax algorithm, Alpha-Beta pruning, Additional Refinements. Classical planning problem, Natural Language Processing: Language Models, Text classification, Information Retrieval, Information Extraction.

**Reference Books:**

1. Artificial Intelligence, E. Rich and K. Knight, , 3<sup>rd</sup> Edition, TMH.
2. Artificial Intelligence A Modern Approach, S. Russell and P. Norvig, 3<sup>rd</sup> Edition, Pearson Education.
3. Introduction to Artificial Intelligence, Eugene Charniak and Drew McDermott, 2<sup>nd</sup> Edition, Pearson Education.
4. Artificial Intelligence Structures and Strategies for Complex Problem Solving, George F Luger, 4<sup>th</sup> Edition, Pearson Education.
5. Artificial Intelligence: A New Synthesis, N.L. Nilsson, Morgan Kaufmann.



Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO1                 | 3    | 3    | 3    | 3    | 3    | 3    | 2    | 2    | 2    | 3     |
| CO2                 | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 2    | 3    | 3     |
| CO3                 | 3    | 3    | 3    | 3    | 3    | 3    | 2    | 2    | 2    | 3     |
| CO4                 | 3    | 3    | 3    | 3    | 3    | 3    | 2    | 2    | 3    | 3     |
| Weighted<br>Average | 3    | 3    | 3    | 3    | 3    | 3    | 2.25 | 2    | 2.5  | 3     |

1: Low, 2: Moderate, 3: High

**OE****WORLD WIDE WEB****3:1:0****Objectives:**

- To provide the conceptual and technological development in the field of Internet and web designing.
- To provide a comprehensive knowledge of Internet, its applications and the TCP/IP protocols widely deployed to provide Internet connectivity worldwide.
- To understand how the World Wide Web with its widespread usefulness has become an integral part of the Internet.
- To provide an overview of basic concepts of web design.

**Outcomes:**

- Understand the working scheme of the Internet and World Wide Web.
- Evaluate the various protocols of the Internet.
- Comprehend and demonstrate the application of Hypertext Mark-up Language (HTML).
- Apply the various security tools and understand the need of security measures.

**Unit I**

Introduction to Internet, Evolution and History of Internet, Growth of Internet, Internet Services, How Internet Works, Anatomy of Internet, Internet addressing, Internet vs. Intranet, and Impact of Internet.

**Unit II**

Internet Technology and Protocol: ISO-OSI Reference Model, Data Transmission, Switching, Routers, Gateways, and Network Protocols

Internet Connectivity: Different types of connections, Levels of Internet Connectivity and Internet Service Provider.

**Unit III**

Web Page Design-HTML: An Introduction, HTML Categories, HTML Fonts, HTML colors, HTML Lists, HTML Tables, HTML Links, HTML Forms, Adding Pictures and Image Attributes.

**Unit IV**

Computer Networks, Internet & Web Security: Computer Networks, Network Components, Network Topologies, Types of Network Architecture, Network Security, Firewall, Digital Signature, Authentication, Authorization, Copyright issues and Virus.

**References**

1. Internet Technology and Web Design by Instructional Software Research and Development (ISRD) Group, Tata MC Graw Hill.
2. Programming the World Wide Web, 4th Edition by Robert W. Sebesta.

Course articulation matrix:

| PO<br>CO            | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|---------------------|------|------|------|------|------|------|------|------|------|-------|
| CO 1                | 2    | 1    | 1    | -    | -    | -    | -    | -    | -    | -     |
| CO 2                | 2    | 1    | 1    | -    | -    | -    | -    | -    | -    | -     |
| CO 3                | 2    | 1    | 1    | -    | 1    | -    | -    | -    | -    | -     |
| CO 4                | 2    | 2    | 2    | -    | 1    | 1    | -    | -    | -    | -     |
| Weighted<br>Average | 2    | 1.25 | 1.25 | -    | 0.5  | 1    | -    | -    | -    | -     |

1: Low, 2: Moderate, 3: High

**OE****E-COMMERCE****3:1:0****Objectives:**

- To impart knowledge on E-Commerce.
- To provide an overview of various applications connected with E-Commerce.
- To enable the learner for aiming careers in special software development involving E-Commerce technologies.
- Understand the security issues in E – commerce.

**Outcomes:**

- Analyse the impact of E-commerce on business models and strategy
- Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational structures.
- Assess electronic payment systems and its securities.
- Recognize and discuss global E-commerce issues.

**Unit 1: Introduction to E-Commerce**

Definition, Scope of E-Commerce, Hardware requirements, E-Commerce and Trade Cycle, Electronic Markets, Electronic Data Interchange and Internet Commerce.

**Unit 2: Business to Business E-Commerce**

Electronic Markets, Electronic Data Interchange (EDI): Technology, Standards (UN/EDIFACT), Communications, Implementations, Agreements, Security, EDI and Business, Inter-Organizational Ecommerce. Business models for E-commerce, Business Process Re-Engineering.

**Unit 3: Business to Consumer E-Commerce and E-Business**

Consumer trade transaction, Web metrics, Elements of E-Commerce, Industry impacts of E-business. Integrating Intranet and internet web applications across multiple networks. Internet bookshops, Software supplies and support, Electronic Newspapers, Internet Banking, Virtual Auctions, Online Share Dealing, Gambling on the net, E-Diversity, Case studies through internet.

**Unit 4: Security Issues**

How criminals plan attacks, passive attack, Active attacks, cyber stalking, Secure Electronic Transaction (SET) Protocol, Electronic cash over internet, Internet Security, Search engines, Intelligent agents in E-Commerce Electronic payment systems

**References**

1. E-Commerce: Strategy, Technologies & Applications, David Whitley, McGraw Hill.
2. E-commerce: The Cutting Edge of Business, K. K. Bajaj and Debjani Nag, 2<sup>nd</sup> Edition, McGraw Hill.
3. Handbook of Electronic Commerce, Shaw et al., Springer.
4. Global Electronic Commerce- Theory and Case Studies, C. Westland and T. H. K. Clark, University Press.
5. Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives, SunitBelapure and Nina Godbole, Wiley India.

Course articulation matrix:

| PO/CO            | PO1  | PO2 | PO3  | PO4  | PO5 | PO6  | PO7 | PO8 | PO9  | PO10 |
|------------------|------|-----|------|------|-----|------|-----|-----|------|------|
| CO1              | 1    | -   | 2    | 2    | 2   | 2    | 1   | -   | 2    | 2    |
| CO2              | 2    | -   | 2    | 2    | 2   | 1    | 1   | -   | 1    | 1    |
| CO3              | 2    | -   | 1    | 1    | 2   | 1    | 1   | -   | 1    | 1    |
| CO4              | 2    | -   | 2    | 2    | 2   | 1    | 1   | -   | 1    | 2    |
| Weighted Average | 1.75 | -   | 1.75 | 1.75 | 2   | 1.25 | 1   | -   | 1.25 | 1.5  |

1: Low, 2: Moderate, 3: High

**OE****OFFICE AUTOMATION****3:1:0****Objectives:**

- Provide a basic introduction to computers and computing environment.
- Enable the students in crafting professional documents using word pre-processors.
- Enable students use spreadsheets for tabulating and calculating data and create graphical representations of data.
- Enable students to design professional presentations.

**Outcomes:**

- Understand the basics of computer hardware and software.
- Prepare documents of different types.
- Ability to develop and use spreadsheets for tabulating and analysing for productivity.
- Prepare presentations.

**Unit I**

Introduction to Computers, Basic Anatomy of Computers and Introduction to MS-Office.

**Unit II**

MS-Word – Word Basics, Formatting Features, Menu, Commands, Tool Bars and their Icons, Mail Merge and Macros Creating Tables.

**Unit III**

MS-Excel - Introduction, Menu, Commands, Tool Bars and their Icons, and Functions.

**Unit IV**

MS-Power Point – Menu, Toolbar, Navigating in PowerPoint, Working with PowerPoint and Introduction to MS-Access.

**References:**

1. MS Office for Everyone – Sanjay Saxena, Vikas Publishing House.
2. Step by Step Microsoft Office XP, PHI.

**Course articulation matrix:**

| PO               | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 |
|------------------|------|------|------|------|------|------|------|------|------|-------|
| CO               |      |      |      |      |      |      |      |      |      |       |
| CO1              | 1    | 1    | 1    | 1    | 1    | -    | -    | -    | -    | 1     |
| CO2              | 1    | 1    | 1    | 1    | 1    | 1    | -    | -    | -    | 1     |
| CO3              | 1    | 1    | 1    | 1    | 1    | 1    | -    | -    | -    | 1     |
| CO4              | 1    | 1    | 1    | 1    | 1    | 1    | -    | -    | -    | 1     |
| Weighted Average | 1    | 1    | 1    | 1    | 1    | 1    | -    | -    | -    | 1     |

**1: Low, 2: Moderate, 3: High**

**COURSE RELATED RESEARCH ARTICLES:****Software Engineering**

1. Taking the emotional pulse of software engineering —A systematic literature review of empirical studies, Mary Sánchez-Gordón , Ricardo Colomo-Palacios  
<https://academic.oup.com/gigascience/articlepdf/doi/10.1093/gigascience/giz054/28698071/giz054.pdf>
2. Software engineering for scientific big data analysis, Bjorn A. Gruening , Samuel Lampa, Marc Vaudel and Daniel Blankenberg,  
[https://www.researchgate.net/publication/333326758\\_Software\\_engineering\\_for\\_scientific\\_big\\_data\\_analysis](https://www.researchgate.net/publication/333326758_Software_engineering_for_scientific_big_data_analysis)
3. Software Engineering for Machine Learning: A Case Study, Saleema Amershi, Andrew Begel, Christian Bird, Robert DeLine,  
<https://ieeexplore.ieee.org/abstract/document/8804457>

**Data Communication and Networks:**

1. Comprehensive review for energy efficient hierarchical routing protocols on wireless sensor networks, Springer,2018, <https://link.springer.com/article/10.1007/s11276-018-1696-1>
2. A Survey on Recent Advances in Transport Layer Protocols, Michele Polese and et al, IEEE 2019, <https://ieeexplore.ieee.org/abstract/document/8786240>

**Cloud Computing:**

1. Research on Key Technologies of Cloud Computing, Shufen Zhang, Hongcan Yan, XuebinChen, Published by Elsevier,  
<https://www.sciencedirect.com/science/article/pii/S1875389212015994>
2. Open Source Solution for Cloud Computing Platform Using OpenStack, Rakesh Kumar, Neha Gupta, Shilpi Charu, Kanishk Jain, Sunil Kumar Jangir,  
[https://www.researchgate.net/publication/263581733\\_Open\\_Source\\_Solution\\_for\\_Cloud\\_Computing\\_Platform\\_Using\\_OpenStack](https://www.researchgate.net/publication/263581733_Open_Source_Solution_for_Cloud_Computing_Platform_Using_OpenStack)
3. The Challenges of Cloud Computing Management Information System in Academic Work, T.Rodmunkong,P.Wannapiroon,and P.Nilsook,  
[https://www.researchgate.net/publication/273897590\\_The\\_Challenges\\_of\\_Cloud\\_Computing\\_Management\\_Information\\_System\\_in\\_Academic\\_Work](https://www.researchgate.net/publication/273897590_The_Challenges_of_Cloud_Computing_Management_Information_System_in_Academic_Work)

**Cryptography and Network Security:**

1. A Review Paper on Cryptography, Abdalbasit Mohammed Qadir and Nurhayat Varol, IEEE 2019,  
[https://www.researchgate.net/profile/Abdalbasit\\_Mohammed/publication/334418542\\_A\\_Review\\_Paper\\_on\\_Cryptography/links/5db07f61299bf111d4c01521/A-Review-Paper-on-Cryptography.pdf](https://www.researchgate.net/profile/Abdalbasit_Mohammed/publication/334418542_A_Review_Paper_on_Cryptography/links/5db07f61299bf111d4c01521/A-Review-Paper-on-Cryptography.pdf)
2. Security Evaluation of Computer Network Based on Hierarchy, Linbin Wen, International Journal of Network Security,2019,.  
<http://ijns.jalaxy.com.tw/contents/ijns-v21-n5/ijns-2019-v21-n5-p735-740.pdf>

**Internet of Things:**

1. A Study on Internet of Things based Applications, Deeksha Jain, P. Venkata Krishna and V. Saritha,  
[https://www.researchgate.net/publication/227172798\\_A\\_Study\\_on\\_Internet\\_of\\_Things\\_based\\_Applications](https://www.researchgate.net/publication/227172798_A_Study_on_Internet_of_Things_based_Applications)
2. IoT enabled Smart Fog Computing for Vehicular Traffic Control, Akashdeep Bhardwaj, Sam Goundar, <https://eudl.eu/pdf/10.4108/eai.31-10-2018.162221>
3. A Review of Smart Parking Using Internet of Things (IoT), Sahil Rupani, Nishant Doshi, <https://www.sciencedirect.com/science/article/pii/S1877050919317235>

**Information Retrieval**

1. Query expansion techniques for information retrieval: A survey, Hiteshwar Kumar Azad, Akshay Deepak, <https://www.sciencedirect.com/science/article/pii/S0306457318305466>
2. A Deep Look into neural ranking models for information retrieval, Jiafeng Guo, Yixing Fan, Liang Pang, Liu Yang, Qingyao AiHamed Zamani, Chen Wu, W. Bruce Croft, Xueqi Cheng, <https://www.sciencedirect.com/science/article/pii/S0306457319302390>
3. Fuzzy Information Retrieval Based on Continuous Bag-of-Words Model, Dong Qiu , Haihuan Jiang and Shuqiao Chen, <https://www.mdpi.com/2073-8994/12/2/225>

**Big Data Analytics**

1. Big data analytics as an operational excellence approach to enhance sustainable supply chain performance, Surajit Bag, Lincoln C. Wood, Lei Xud, Pavitra Dhamija, Yaşanur Kayıkcı, <https://www.sciencedirect.com/science/article/pii/S0921344919304653>
2. Big data analytics and firm performance: Findings from a mixed-method approach Patrick Mikalef, Maria Boura, George Lekakos, John Krogstie, <https://www.sciencedirect.com/science/article/pii/S014829631930061X>
3. The role of big data analytics in industrial Internet of Things, Muhammad Habib ur Rehman, Ibrar Yaqoo, Khaled Salah, Muhammad Imran, Prem Prakash Jayaraman, Charith Perera, <https://www.sciencedirect.com/science/article/pii/S0167739X18313645>

**Machine Learning**

1. Computer generated images vs. digital photographs: A synergetic feature and classifier combination approach, Eric Tokuda, Helio Pedrini and Anderson Rocha, Elsevier Journal of Vis. Commun, Image R., Vol. 24, 2013, pp. 1276-1292.  
<https://www.sciencedirect.com/science/article/abs/pii/S1047320313001557>
2. Very Deep Convolutional Networks for Large-Scale Image Recognition, Karen Simonyan and Andrew Zisserman, <https://arxiv.org/pdf/1409.1556.pdf>

**Cyber security:**

1. Cyber Security, Rohit , Anvesh Babu , Ranjith Reddy, Sciendo, HOLISTICA Vol 10, Issue 2, 2019, <https://sciendo.com/article/10.2478/hjbpa-2019-0020>



2. Detecting cyber threats through social network analysis: short survey, Kirichenko Lyudmyla, Radivilova Tamara, Carlsson Anders, 2017,  
[https://www.researchgate.net/publication/316766488\\_Detecting\\_cyber\\_threats\\_through\\_social\\_network\\_analysis\\_short\\_survey](https://www.researchgate.net/publication/316766488_Detecting_cyber_threats_through_social_network_analysis_short_survey)

## ADDITIONAL WEB RESOURCES

1. Programming Paradigms  
<https://see.stanford.edu/Course/CS107>
2. Introduction to Robotics  
<https://see.stanford.edu/Course/CS223A>
3. Programming Methodology  
<https://see.stanford.edu/Course/CS106A>
4. Programming Abstractions  
<https://see.stanford.edu/Course/CS106B>
5. Programming for the Puzzled  
<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-s095-programming-for-the-puzzled-january-iap-2018/>
6. Machine Learning  
<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-867-machine-learning-fall-2006/>
7. Machine Learning for Healthcare  
<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-s897-machine-learning-for-healthcare-spring-2019/>
8. Introduction to Deep Learning  
<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-s191-introduction-to-deep-learning-january-iap-2020/>
9. Advanced Data Structures  
<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-851-advanced-data-structures-spring-2012/>
10. Kotlin Tutorial  
<https://www.w3schools.com/kotlin/index.php>
11. Python Programming  
<https://www.w3schools.com/python/default.asp>
12. Angular JS  
<https://www.w3schools.com/angular/default.asp>
13. Cyber Security  
<https://www.w3schools.com/cybersecurity/index.php>
14. Data Scientist  
<https://www.codecademy.com/learn/paths/data-science>
15. Analyze data with Python  
<https://www.codecademy.com/learn/paths/analyze-data-with-python>

\*\*\*\*\*

**21 Appendix 2 : LoA and subsequent EoA till the current Academic Year**

**All India Council for Technical Education**  
(A Statutory body under Ministry of Education, Govt. of India)  
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)



**APPROVAL PROCESS 2022-23**

**Extension of Approval (EoA)**

F.No. South-West/1-10973205268/2022/EOA

Date: 02-Jun-2022

To,

The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bangalore-560001

**Sub: Extension of Approval for the Academic Year 2022-23**

Ref: Application of the Institution for Extension of Approval for the Academic Year 2022-23

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations, 2022 Notified on 4th February, 2022 and amended on 24th February 2022 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

|                                |  |                                  |   |
|--------------------------------|--|----------------------------------|---|
| <b>Permanent Id</b>            | 1-14177311   | <b>Application Id</b>            | 1-10973205268                                       |
| <b>Name of the Institution</b> | SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING   | <b>Name of the Society/Trust</b> | MAHAJANA EDUCATION SOCIETY(R)                       |
| <b>Institution Address</b>     | METAGALLI, KRS ROAD, MYSORE KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016 | <b>Society/Trust Address</b>     | JAYALAKSHMIPURAM, MYSORE, MYSORE, Karnataka, 570012 |
| <b>Institution Type</b>        | Private-Self Financing   | <b>Region</b>                    | South-West  |
| <b>Year of Establishment</b>   | 1999   |                                  |   |

**To conduct following Courses with the Intake indicated below for the Academic Year 2022-23**

| Level         | Program | Course                           | Affiliating Body (University /Body) | Intake Approved for 2021-22 | Intake Approved for 2022-23 | NRI Approval Status | FN / Gulf quota/ OCI/ Approval Status |
|---------------|---------|----------------------------------|-------------------------------------|-----------------------------|-----------------------------|---------------------|---------------------------------------|
| POST GRADUATE | MCA     | MASTERS IN COMPUTER APPLICATIONS | Mysore University, Mysore           | 60                          | 60                          | NA                  | NA                                    |

**It is mandatory to comply with all the essential requirements as given in APH 2022-23 (Appendix 6)**

### **Important Instructions**

1. The State Government/ UT/ Directorate of Technical Education/ Directorate of Medical Education shall ensure that 10% of reservation for Economically Weaker Section (EWS) as per the reservation policy for admission, operational from the Academic year 2019-20 is implemented without affecting the reservation percentages of SC/ ST/ OBC (NCL)/ General. However, this would not be applicable in the case of Minority Institutions referred to the Clause (1) of Article 30 of Constitution of India. Such Institution shall be permitted to increase in annual permitted strength over a maximum period of two years.
2. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time are now amalgamated as total intake and shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2022-23 for the Total Approved Intake. Further, the Institutions Deemed to be Universities/ Institutions having Accreditation/ Autonomy status shall have to maintain the Faculty: Student ratio as specified in the Approval Process Handbook. All such Institutions/ Universities shall have to create the necessary Faculty, Infrastructure and other facilities WITHIN 2 YEARS to fulfil the norms based on the Affidavit submitted to AICTE beginning with the Academic Year 2022-23
3. Strict compliance of Anti-Ragging Regulation, Establishment of Committee for SC/ ST, Establishment of Internal Complaint Committee (ICC), Establishment of Online Grievance Redressal Mechanism, Barrier Free Built Environment for disabled and elderly persons, Fire and Safety Certificate should be maintained as Approval Process Handbook and provisions made in AICTE Regulation notified from time to time.
4. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

**Pharmacy Institute:** In compliance with the order dated 05.03.2020 passed by the Hon'ble Supreme Court of India in Transferred Petitions (CIVIL) No 87-101 of 2014, for the existing institutions offering courses in Pharmacy Programme, approval of Pharmacy Council of India (PCI) is mandatory and AICTE approval is NOT required. The requirements for running the Programme (Diploma / UG / PG) such as Land & Build-up Area, Student-faculty ratio, Intake etc. will be as per the respective regulatory body (PCI). In case of any inconsistency in the course name and intake for EoA issued by AICTE and the approval by PCI, the approval of PCI shall prevail.

**Architecture Institute:** In compliance with the order dated 08.11.2019 passed by the Hon'ble Supreme Court of India in CA No.364/ 2005, for the existing Institutions offering Courses in Architecture Programme, approval by the Council of Architecture (CoA) is mandatory and AICTE approval is NOT required. The requirements for running the Programme (Diploma / UG / PG) such as Land & Build-up Area, Student-faculty ratio, Intake etc. will be as per respective regulatory body (CoA). In case of any inconsistency in the course name and intake for EoA issued by AICTE and the approval by CoA, the approval of CoA shall prevail.

**Deemed to be University:** Institutions Deemed to be Universities (Running Technical Education Programmes), it is mandatory to have AICTE approval from the Academic Year 2018-19 in compliance of the Hon'ble Supreme Court Order dated 03-11-2017 passed in CA No.17869- 17870 /2017.

**Prof.Rajive Kumar**  
**Member Secretary, AICTE**

Copy to:

1. **The Director Of Technical Education\*\***, Karnataka
2. **The Registrar\*\***,  
Mysore University, Mysore
3. **The Principal / Director**,  
SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING  
Metagalli, Krs Road, Mysore  
Karnataka , India  
Karnataka,  
Mysore,Mysore,  
Karnataka,570016
4. **The Secretary / Chairman**,  
JAYALAKSHMIPURAM

MYSORE,MYSORE  
Karnataka,570012

5. **The Regional Officer,**  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka

6. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at <http://www.aicte-india.org/>

---

\*\* Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.

*This is a computer generated Statement. No signature Required*

**All India Council for Technical Education**  
(A Statutory body under Ministry of Education, Govt. of India)  
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)



**APPROVAL PROCESS 2021-22**

**Extension of Approval (EoA)**

F.No. South-West/1-9319727312/2021/EOA

Date: 29-Jun-2021

To,

The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bangalore-560001

**Sub: Extension of Approval for the Academic Year 2021-22**

Ref: Application of the Institution for Extension of Approval for the Academic Year 2021-22

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations, Notified on 4th February, 2020 and amended on 24th February 2021 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to:

|  |  |                                  |   |
|--|--|----------------------------------|---|
| <b>Permanent Id</b>                        | 1-14177311   | <b>Application Id</b>            | 1-9319727312  |
| <b>Name of the Institution /University</b> | SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING   | <b>Name of the Society/Trust</b> | MAHAJANA EDUCATION SOCIETY(R)                       |
| <b>Institution /University Address</b>     | METAGALLI, KRS ROAD, MYSORE KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016 | <b>Society/Trust Address</b>     | JAYALAKSHMIPURAM, MYSORE, MYSORE, Karnataka, 570012 |
| <b>Institution /University Type</b>        | Private-Self Financing   | <b>Region</b>                    | South-West  |

**To conduct following Programs / Courses with the Intake indicated below for the Academic Year 2021-22**

| Program | Level         | Course                           | Affiliating Body (University /Body) | Intake Approved for 2020-21 | Intake Approved for 2021-22 | NRI Approval Status | FN / Gulf quota/ OCI/ Approval Status |
|---------|---------------|----------------------------------|-------------------------------------|-----------------------------|-----------------------------|---------------------|---------------------------------------|
| MCA     | POST GRADUATE | MASTERS IN COMPUTER APPLICATIONS | Mysore University, Mysore           | 60                          | 60                          | NA                  | NA                                    |

**It is mandatory to comply with all the essential requirements as given in APH 2021-22 (Appendix 6)**

### **Important Instructions**

1. The State Government/ UT/ Directorate of Technical Education/ Directorate of Medical Education shall ensure that 10% of reservation for Economically Weaker Section (EWS) as per the reservation policy for admission, operational from the Academic year 2019-20 is implemented without affecting the reservation percentages of SC/ ST/ OBC/ General. However, this would not be applicable in the case of Minority Institutions referred to the Clause (1) of Article 30 of Constitution of India. Such Institution shall be permitted to increase in annual permitted strength over a maximum period of two years.
2. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time now amalgamated as total intake shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2021-22 for the Total Approved Intake. Further, the Institutions Deemed to be Universities/ Institutions having Accreditation/ Autonomy status shall have to maintain the Faculty: Student ratio as specified in the Approval Process Handbook.
3. Strict compliance of Anti-Ragging Regulation, Establishment of Committee for SC/ ST, Establishment of Internal Complaint Committee (ICC), Establishment of Online Grievance Redressal Mechanism, Barrier Free Built Environment for disabled and elderly persons, Fire and Safety Certificate should be maintained as per the provisions made in Approval Process Handbook and AICTE Regulation notified from time to time.
4. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

**Prof.Rajive Kumar**  
**Member Secretary, AICTE**

Copy \*\* to:

1. **The Director of Technical Education\*\*, Karnataka**
2. **The Registrar\*\*,  
Mysore University, Mysore**
3. **The Principal / Director,  
SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING  
Metagalli, Krs Road, Mysore  
Karnataka , India  
Karnataka,  
Mysore,Mysore,  
Karnataka,570016**
4. **The Secretary / Chairman,  
JAYALAKSHMIPURAM  
MYSORE,MYSORE  
Karnataka,570012**
5. **The Regional Officer,  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka**
6. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at <http://www.aicte-india.org/>.

\*\* Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.

*This is a computer generated Statement. No signature Required*



# All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)



## APPROVAL PROCESS 2019-20

### Extension of Approval (EoA)

F.No. South-West/1-4261705959/2019/EOA

Date: 10-Apr-2019

To,

The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bangalore-560001

#### Sub: Extension of Approval for the Academic Year 2019-20

Ref: Application of the Institution for Extension of approval for the Academic Year 2019-20

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2018 notified by the Council vide notification number F.No.AB/AICTE/REG/2018 dated 31/12/2018 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

|                              |  |                                  |   |
|------------------------------|--|----------------------------------|---|
| <b>Permanent Id</b>          | 1-14177311   | <b>Application Id</b>            | 1-4261705959  |
| <b>Name of the Institute</b> | SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING   | <b>Name of the Society/Trust</b> | MAHAJANA EDUCATION SOCIETY(R)                       |
| <b>Institute Address</b>     | METAGALLI, KRS ROAD, MYSORE KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016 | <b>Society/Trust Address</b>     | JAYALAKSHMIPURAM, MYSORE, MYSORE, Karnataka, 570012 |
| <b>Institute Type</b>        | Unaided - Private  | <b>Region</b>                    | South-West  |

|  |    |   |    |
|--|----|---|----|
| <b>Opted for Change from Women to Co-Ed and vice versa</b>       | No | <b>Change from Women to Co-Ed and vice versa Approved or Not</b>      | NA |
| <b>Opted for Change of Name</b>                                  | No | <b>Change of Name Approved or Not</b>                                 | NA |
| <b>Opted for Change of Site/Location</b>                         | No | <b>Change of Site/Location Approved or Not</b>                        | NA |
| <b>Opted for Conversion from Degree to Diploma or vice versa</b> | No | <b>Conversion for Degree to Diploma or vice versa Approved or Not</b> | NA |
| <b>Opted for Organization Name Change</b>                        | No | <b>Change of Organization Name Approved or Not</b>                    | NA |
| <b>Opted for Merger of Institution</b>                           | No | <b>Merger of Institution Approved or Not</b>                          | NA |
| <b>Opted for Introduction of New Program/Level</b>               | No | <b>Introduction of Program/Level Approved or Not</b>                  | NA |

#### To conduct following Courses with the Intake indicated below for the Academic Year 2019-20

| Program | Shift | Level         | Course                           | FT/PT+ | Affiliating Body (Univ/Body) | Intake Approved for 2019-20 | NRI Approval Status | PIO / FN / Gulf quota/ OCI/ Approval Status |
|---------|-------|---------------|----------------------------------|--------|------------------------------|-----------------------------|---------------------|---|
| Mca     | 1st   | POST GRADUATE | Masters In Computer Applications | FT     | Mysore University, Mysore    | 30                          | NA                  | NA  |

+FT –Full Time, PT-Part Time

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**It is mandatory to comply all the essential requirements as given in APH 2019-20(appendix 6)**

**NOTE: If the State Government / UT / DTE / DME has a reservation policy for admission in Technical Education Institutes and the same is applicable to Private & Self-financing Technical Institutions, then the State Government / UT/ DTE / DME shall ensure that 10 % of Reservation for EWS would be operational from the Academic year 2019-20 without affecting the percentage reservations of SC/ST/OBC/General . However, this would not be applicable in the case of Minority Institutions referred to the clause (1) of Article 30 of Constitution of India.**

**Prof. A.P Mittal**  
**Member Secretary, AICTE**

Copy to:

1. **The Director Of Technical Education\*\*, Karnataka**
2. **The Registrar\*\*,  
Mysore University, Mysore**
3. **The Principal / Director,**  
Sbr Mahajana First Grade College, Pg Wing  
Metagalli, Krs Road, Mysore  
Karnataka , India  
Karnataka,  
Mysore,Mysore,  
Karnataka,570016
4. **The Secretary / Chairman,**  
Mahajana Education Society(R)  
Jayalakshampuram.  
Mysore,Mysore,  
Karnataka,570012
5. **The Regional Officer,**  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka
6. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at <http://www.aicte-india.org/>

---

**\*\* Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.**

# All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)



## APPROVAL PROCESS 2018-19

### Extension of Approval (EoA)

F.No. South-West/1-3514764591/2018/EOA

Date: 04-Apr-2018

To,

The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bangalore-560001

#### Sub: Extension of Approval for the Academic Year 2018-19

Ref: Application of the Institution for Extension of approval for the Academic Year 2018-19

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and amended on December 5, 2017 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

|                       |  |                           |   |
|-----------------------|--|---------------------------|---|
| Permanent Id          | 1-14177311   | Application Id            | 1-3514764591  |
| Name of the Institute | SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING   | Name of the Society/Trust | MAHAJANA EDUCATION SOCIETY(R)                       |
| Institute Address     | METAGALLI, KRS ROAD, MYSORE KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016 | Society/Trust Address     | JAYALAKSHMIPURAM, MYSORE, MYSORE, Karnataka, 570012 |
| Institute Type        | Unaided - Private  | Region                    | South-West  |

|   |    |  |    |
|---|----|--|----|
| Opted for Change from Women to Co-Ed and vice versa       | No | Change from Women to Co-Ed and vice versa Approved or Not      | NA |
| Opted for Change of Name                                  | No | Change of Name Approved or Not                                 | NA |
| Opted for Change of Site                                  | No | Change of Site Approved or Not                                 | NA |
| Opted for Conversion from Degree to Diploma or vice versa | No | Conversion for Degree to Diploma or vice versa Approved or Not | NA |
| Opted for Organization Name Change                        | No | Change of Organization Name Approved or Not                    | NA |

#### To conduct following Courses with the Intake indicated below for the Academic Year 2018-19

| Program | Shift | Level         | Course                           | FT/PT+ | Affiliating Body (Univ/Body) | Intake Approved for 2018-19 | NRI Approval Status | PIO / FN / Gulf quota/ OCI/ Approval Status | Foreign Collaboration / Twinning Program Approval Status* |
|---------|-------|---------------|----------------------------------|--------|------------------------------|-----------------------------|---------------------|---|---|
| MCA     | 1st   | POST GRADUATE | MASTERS IN COMPUTER APPLICATIONS | FT     | Mysore University, Mysore    | 30                          | NA                  | NA  | NA  |

+FT –Full Time, PT-Part Time

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**Prof. A.P Mittal**  
**Member Secretary, AICTE**

Copy to:

1. The Regional Officer,  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka
2. The Director Of Technical Education\*\*,  
Karnataka
3. The Registrar\*\*,  
Mysore University, Mysore
4. The Principal / Director,  
SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING  
METAGALLI, KRS ROAD, MYSORE  
KARNATAKA , INDIA  
KARNATAKA,  
MYSORE,MYSORE,  
Karnataka,570016
5. The Secretary / Chairman,  
MAHAJANA EDUCATION SOCIETY(R)  
JAYALAKSHMIPURAM,  
MYSORE,MYSORE,  
Karnataka,570012
6. Guard File(AICTE)

Note: Validity of the Course details may be verified at <http://www.aicte-india.org/>

---

\*\* Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.



# All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

F.No. South-West/1-3333535856/2017/EOA

Date: 30-Mar-2017

To,

The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bangalore-560001

## Sub: Extension of approval for the academic year 2017-18

Ref: Application of the Institution for Extension of approval for the academic year 2017-18

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

|                           |  |                       |  |
|---------------------------|--|-----------------------|--|
| Permanent Id              | 1-14177311                                 | Application Id        | 1-3333535856   |
| Name of the Institute     | SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING | Institute Address     | METAGALLI, KRS ROAD, MYSORE KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016 |
| Name of the Society/Trust | MAHAJANA EDUCATION SOCIETY(R)              | Society/Trust Address | JAYALAKSHMIPURAM, MYSORE, MYSORE, Karnataka, 570012  |
| Institute Type            | Unaided - Private                          | Region                | South-West   |

|   |                |   |                |   |                |
|---|----------------|---|----------------|---|----------------|
| Opted for change from Women to Co-ed and Vice versa | No             | Opted for change of name                    | No             | Opted for change of site                              | No             |
| Change from Women to Co-ed approved and Vice versa  | Not Applicable | Change of name Approved                     | Not Applicable | Change of site Approved                               | Not Applicable |
| Opted for Conversion from degree to diploma         | No             | Opted for Conversion from diploma to degree | No             | Conversion (degree to diploma or vice-versa) Approved | Not Applicable |

To conduct following courses with the intake indicated below for the academic year 2017-18

| Application Id: 1-3333535856 |           |               | Course                           | Full/Part Time | Affiliating Body          | Intake Approved for 2016-17 | Intake Approved for 2017-18 | NRI Approval status | PIO / FN / Gulf quota/ OCI/ Approval status | Foreign Collaboration/Twinning Program Approval status* |
|------------------------------|-----------|---------------|----------------------------------|----------------|---------------------------|-----------------------------|-----------------------------|---------------------|---|---|
| Program                      | Shift     | Level         |                                  |                |                           |                             |                             |                     |   |   |
| MCA                          | 1st Shift | POST GRADUATE | MASTERS IN COMPUTER APPLICATIONS | FULL TIME      | Mysore University, Mysore | 30                          | 30                          | NA                  | NA  | NA  |



# All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

The above mentioned approval is subject to the condition that

SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING

shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**Note: Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org)**

**Prof. A.P Mittal**  
**Member Secretary, AICTE**

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka
2. **The Director Of Technical Education\*\*,**  
Karnataka
3. **The Registrar\*\*,**  
Mysore University, Mysore
4. **The Principal / Director,**  
SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING  
METAGALLI, KRS ROAD, MYSORE  
KARNATAKA , INDIA  
KARNATAKA,  
MYSORE,MYSORE,  
Karnataka,570016
5. **The Secretary / Chairman,**  
MAHAJANA EDUCATION SOCIETY(R)  
JAYALAKSHMIPURAM,  
MYSORE,MYSORE,  
Karnataka,570012
6. **Guard File(AICTE)**

**Note: \*\* - Approval letter copy will not be communicated through post/email. However, provision is made in the portal for downloading Approval letter through Authorized login credentials allotted to concerned DTE/Registrar.**



## ***All India Council for Technical Education***

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

F.No. South-West/1-2811966671/2016/EOA

Date: 05-Apr-2016

To,

The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bangalore-560001

**Sub: Extension of approval for the academic year 2016-17**

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

|                           |  |                       |   |
|---------------------------|--|-----------------------|---|
| Regional Office           | South-West                                 | Application Id        | 1-2811966671  |
| Name of the Institute     | SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING | Permanent Id          | 1-14177311  |
| Name of the Society/Trust | MAHAJANA EDUCATION SOCIETY(R)              | Institute Address     | METAGALLI, KRS ROAD, MYSORE<br>KARNATAKA , INDIA<br>KARNATAKA, MYSORE, MYSORE, Karnataka,<br>570016 |
| Institute Type            | Unaided - Private                          | Society/Trust Address | JAYALAKSHMIPURAM,MYSORE,MYSORE,Karnatak<br>a,570012   |

|   |                |                          |                |                          |                |
|---|----------------|--------------------------|----------------|--------------------------|----------------|
| Opted for change from Women to Co-ed and Vice versa | No             | Opted for change of name | No             | Opted for change of site | No             |
| Change from Women to Co-ed approved and Vice versa  | Not Applicable | Change of name Approved  | Not Applicable | Change of site Approved  | Not Applicable |

To conduct following courses with the intake indicated below for the academic year 2016-17

| Application Id: 1-2811966671 |           |             | Course                           | Full/Part Time | Affiliating Body          | Intake 2015-16 | Intake Approved for 2016-17 | NRI Approval status | PIO / FN / Gulf quota Approval status | Foreign Collaboration/Twinning Program Approval status* |
|------------------------------|-----------|-------------|----------------------------------|----------------|---------------------------|----------------|-----------------------------|---------------------|---------------------------------------|---|
| Program                      | Shift     | Level       |                                  |                |                           |                |                             |                     |                                       |   |
| MCA                          | 1st Shift | POST GRADUA | MASTERS IN COMPUTER APPLICATIONS | FULL TIME      | Mysore University, Mysore | 30             | 30                          | NA                  | NA                                    | NA  |





*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

|  |  |    |  |  |  |  |  |  |  |  |
|--|--|----|--|--|--|--|--|--|--|--|
|  |  | TE |  |  |  |  |  |  |  |  |
|--|--|----|--|--|--|--|--|--|--|--|

The above mentioned approval is subject to the condition that SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**Note: Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org)**

**Dr. Avinash S Pant**  
**Vice - Chairman, AICTE**

Copy to:

- The Regional Officer,**  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka
- The Director Of Technical Education,**  
Karnataka
- The Registrar,**  
Mysore University, Mysore
- The Principal / Director,**  
SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING  
METAGALLI, KRS ROAD, MYSORE  
KARNATAKA , INDIA  
KARNATAKA,  
MYSORE,MYSORE,  
Karnataka,570016
- The Secretary / Chairman,**  
MAHAJANA EDUCATION SOCIETY(R)  
JAYALAKSHMIPURAM,  
MYSORE,MYSORE,  
Karnataka,570012
- Guard File(AICTE)**



*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

F.No. South-West/1-2450667028/2015/EOA

Date: 07-Apr-2015

To,  
The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bangalore-560001

**Sub: Extension of approval for the academic year 2015-16**

Ref: Application of the Institution for Extension of approval for the academic year 2015-16

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

|                           |  |                       |  |
|---------------------------|--|-----------------------|--|
| Regional Office           | South-West                                 | Application Id        | 1-2450667028   |
|                           |  | Permanent Id          | 1-14177311   |
| Name of the Institute     | SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING | Institute Address     | METAGALLI, KRS ROAD, MYSORE KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016 |
| Name of the Society/Trust | MAHAJANA EDUCATION SOCIETY(R)              | Society/Trust Address | JAYALAKSHMIPURAM,MYSORE,MYSORE,Karnataka,570012  |
| Institute Type            | Unaided - Private                          |                       |  |

|                                      |                |                          |                |                          |                |
|--------------------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
| Opted for change from Women to Co-ed | No             | Opted for change of name | No             | Opted for change of site | No             |
| Change from Women to Co-ed approved  | Not Applicable | Change of name Approved  | Not Applicable | Change of site Approved  | Not Applicable |

To conduct following courses with the intake indicated below for the academic year 2015-16

Application Number: 1-2450667028\*

Page 1 of 3

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:15 April 2015

Printed By : AE6500351



*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

| Application Id: 1-2450667028 |           |               | Course                           | Full/Part Time | Affiliating Body          | Intake 2014-15 | Intake Approved for 15-16 | NRI Approval status | PIO Approval status | Foreign Collaboration Approval status |
|------------------------------|-----------|---------------|----------------------------------|----------------|---------------------------|----------------|---------------------------|---------------------|---------------------|---------------------------------------|
| Program                      | Shift     | Level         |                                  |                |                           |                |                           |                     |                     |                                       |
| MCA                          | 1st Shift | POST GRADUATE | MASTERS IN COMPUTER APPLICATIONS | FULL TIME      | Mysore University, Mysore | 30             | 30                        | NA                  | NA                  | NA                                    |

Note: Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org)>departments>approvals

The above mentioned approval is subject to the condition that SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**Dr. Avinash S Pant**  
Actg Chairman, AICTE

Copy to:

- The Regional Officer,**  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka
- The Director Of Technical Education,**  
Karnataka
- The Registrar,**  
Mysore University, Mysore
- The Principal / Director,**

Application Number: 1-2450667028\*

Page 2 of 3

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:15 April 2015

Printed By : AE6500351



*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING  
METAGALLI, KRS ROAD, MYSORE  
KARNATAKA , INDIA  
KARNATAKA,  
MYSORE,MYSORE,  
Karnataka,570016

5. **The Secretary / Chairman,**  
MAHAJANA EDUCATION SOCIETY(R)  
JAYALAKSHMIPURAM,  
MYSORE,MYSORE,  
Karnataka,570012

6. **Guard File(AICTE)**



*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

F.No. South-West/1-2010826282/2014/EOA

Date: 04-Jun-2014

To,  
The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bangalore-560001

Sub: Extension of approval for the academic year 2014-15

Ref: Application of the Institution for Extension of approval for the academic year 2014-15

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

|                           |  |                       |   |
|---------------------------|--|-----------------------|---|
| Regional Office           | South-West                                 | Application Id        | 1-2010826282  |
|                           |  | Permanent Id          | 1-14177311  |
| Name of the Institute     | SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING | Institute Address     | METAGALLI, KRS ROAD, MYSORE<br>KARNATAKA , INDIA<br>KARNATAKA, MYSORE, MYSORE, Karnataka,<br>570016 |
| Name of the Society/Trust | MAHAJANA EDUCATION SOCIETY(R)              | Society/Trust Address | JAYALAKSHMIPURAM,MYSORE,MYSORE,Karnatak<br>a,570012   |
| Institute Type            | Unaided - Private                          |                       |   |

|                                      |                |                          |                |                          |                |
|--------------------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
| Opted for change from Women to Co-ed | No             | Opted for change of name | No             | Opted for change of site | No             |
| Change from Women to Co-ed approved  | Not Applicable | Change of name Approved  | Not Applicable | Change of site Approved  | Not Applicable |

to conduct following courses with the intake indicated below for the academic year 2014-15

Application Number: 1-2010826282\*

Page 1 of 3

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:13 January 2015

Printed By : ae6500351



*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

| Application Id: 1-2010826282 |           |               | Course                           | Full/Part Time | Affiliating Body          | Intake 2013-14 | Intake Approved for 14-15 | NRI Approval status | PIO Approval status | Foreign Collaboration Approval status |
|------------------------------|-----------|---------------|----------------------------------|----------------|---------------------------|----------------|---------------------------|---------------------|---------------------|---------------------------------------|
| Program                      | Shift     | Level         |                                  |                |                           |                |                           |                     |                     |                                       |
| MCA                          | 1st Shift | POST GRADUATE | MASTERS IN COMPUTER APPLICATIONS | FULL TIME      | Mysore University, Mysore | 30             | 30                        | NA                  | NA                  | N                                     |

- Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org)>departments>approvals

The above mentioned approval is subject to the condition that SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal and subsequently upload and update the student/ faculty/ other data on portal as per the time schedule which will be intimated by AICTE.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**(Dr. Kuncheria P. Isaac)**  
Member Secretary, AICTE

Copy to:

- The Regional Officer,**  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka



*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

2. **The Director Of Technical Education,**  
Karnataka
3. **The Registrar,**  
Mysore University, Mysore
4. **The Principal / Director,**  
SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING  
METAGALLI, KRS ROAD, MYSORE  
KARNATAKA , INDIA  
KARNATAKA,  
MYSORE,MYSORE,  
Karnataka,570016
5. **The Secretary / Chairman,**  
MAHAJANA EDUCATION SOCIETY(R)  
JAYALAKSHMIPURAM,  
MYSORE,MYSORE,  
Karnataka,570012
6. **Guard File(AICTE)**



*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

F.No. South-West/1-1346027642/2013/EOA

Date: 19-Mar-2013

To,  
The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bangalore-560001

Sub: Extension of approval for the academic year 2013-14

Ref: Application of the Institution for Extension of approval for the academic year 2013-14

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

|                           |  |                       |   |
|---------------------------|--|-----------------------|---|
| Regional Office           | South-West                                 | Application Id        | 1-1346027642  |
|                           |  | Permanent Id          | 1-14177311  |
| Name of the Institute     | SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING | Institute Address     | METAGALLI, KRS ROAD, MYSORE<br>KARNATAKA , INDIA<br>KARNATAKA, MYSORE, MYSORE, Karnataka,<br>570016 |
| Name of the Society/Trust | MAHAJANA EDUCATION SOCIETY(R)              | Society/Trust Address | JAYALAKSHMIPURAM,MYSORE,MYSORE,Karnatak<br>a,570012   |
| Institute Type            | Unaided - Private                          |                       |   |

|                                      |                |                          |                |                          |                |
|--------------------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
| Opted for change from Women to Co-ed | No             | Opted for change of name | No             | Opted for change of site | No             |
| Change from Women to Co-ed approved  | Not Applicable | Change of name Approved  | Not Applicable | Change of site Approved  | Not Applicable |

to conduct following courses with the intake indicated below for the academic year 2013-14

Application Number: 1-1346027642\*

Page 1 of 3

Note: This is a Computer generated Extension of Approval Letter. No signature is required.

Letter Printed On:22 March 2013.

Printed By : AE6500351





*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

|                              |           |               |                                  |                |                           |                |                           |     |     |                       |
|------------------------------|-----------|---------------|----------------------------------|----------------|---------------------------|----------------|---------------------------|-----|-----|-----------------------|
| Application Id: 1-1346027642 |           |               | Course                           | Full/Part Time | Affiliating Body          | Intake 2012-13 | Intake Approved for 13-14 | NRI | PIO | Foreign Collaboration |
| Program                      | Shift     | Level         |                                  |                |                           |                |                           |     |     |                       |
| MCA                          | 1st Shift | POST GRADUATE | MASTERS IN COMPUTER APPLICATIONS | FULL TIME      | Mysore University, Mysore | 30             | 30                        | No  | No  | No                    |

- Validity of the course details may be verified at [www.aicte-india.org>departments>approvals](http://www.aicte-india.org>departments>approvals)

The above mentioned approval is subject to the condition that SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**(Dr. Kuncheria P. Isaac)**

Member Secretary, AICTE

Copy to:

- The Regional Officer,**  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka
- The Director Of Technical Education,**  
Karnataka
- The Registrar,**  
Mysore University, Mysore
- The Principal / Director,**

Application Number: 1-1346027642\*

Page 2 of 3

Note: This is a Computer generated Extension of Approval Letter. No signature is required.

Letter Printed On: 22 March 2013.

Printed By : AE6500351



*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING  
METAGALLI, KRS ROAD, MYSORE  
KARNATAKA , INDIA  
KARNATAKA,  
MYSORE,MYSORE,  
Karnataka,570016

5. **The Secretary / Chairman,**  
MAHAJANA EDUCATION SOCIETY(R)  
JAYALAKSHMIPURAM,  
MYSORE,MYSORE,  
Karnataka,570012

6. **Guard File(AICTE)**





*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

F.No. South-West/1-697064931/2012/EOA

Date: 10/05/2012

To,  
The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bangalore-560001

Sub: Extension of approval for the academic year 2012-13

Ref: Application of the Institution for Extension of approval for the academic year 2012-13

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2010 notified by the Council vide notification number F-No.37-3/Legal/2010 dated 10/12/2010 and amendment vide notification number F-No.37-3/Legal/2011 dated 30/09/2011 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

|                           |  |                       |  |
|---------------------------|--|-----------------------|--|
| Regional Office           | South-West                                 | Application Id        | 1-697064931  |
|                           |  | Permanent Id          | 1-14177311   |
| Name of the Institute     | SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING | Institute Address     | METAGALLI, KRS ROAD, MYSORE KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016 |
| Name of the Society/Trust | MAHAJANA EDUCATION SOCIETY(R)              | Society/Trust Address | JAYALAKSHMIPURAM,MYSORE,MYSORE,Karnataka,570012  |
| Institute Type            | Unaided - Private                          |                       |  |

|                                      |                |                          |                |                          |                |
|--------------------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
| Opted for change from Women to Co-ed | No             | Opted for change of name | No             | Opted for change of site | No             |
| Change from Women to Co-ed approved  | Not Applicable | Change of name Approved  | Not Applicable | Change of site Approved  | Not Applicable |

to conduct following courses with the intake indicated below for the academic year 2012-13

Application Number: 1-697064931\*

Page 1 of 3

Note: This is a Computer generated Extension of Approval Letter. No signature is required.

Letter Printed On:18 October 2012.

Printed By : AE6500351



*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

|                             |           |               |                                  |                |                   |                |                           |     |     |                       |
|-----------------------------|-----------|---------------|----------------------------------|----------------|-------------------|----------------|---------------------------|-----|-----|-----------------------|
| Application Id: 1-697064931 |           |               | Course                           | Full/Part Time | Affiliating Body  | Intake 2011-12 | Intake Approved for 12-13 | NRI | PIO | Foreign Collaboration |
| Program                     | Shift     | Level         |                                  |                |                   |                |                           |     |     |                       |
| MCA                         | 1st Shift | POST GRADUATE | MASTERS IN COMPUTER APPLICATIONS | FULL TIME      | Mysore University | 30             | 30                        | No  | No  | No                    |

The above mentioned approval is subject to the condition that SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**(Dr. K P Isaac)**

Member Secretary, AICTE

Copy to:

- The Regional Officer,**  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka
- The Director Of Technical Education,**  
Karnataka
- The Registrar,**  
Mysore University
- The Principal / Director,**  
SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING  
METAGALLI, KRS ROAD, MYSORE  
KARNATAKA , INDIA

Application Number: 1-697064931\*

Page 2 of 3

Note: This is a Computer generated Extension of Approval Letter. No signature is required.

Letter Printed On: 18 October 2012.

Printed By : AE6500351



*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

KARNATAKA,  
MYSORE,MYSORE,  
Karnataka,570016

5. **The Secretary / Chairman,**  
MAHAJANA EDUCATION SOCIETY(R)  
JAYALAKSHMIPURAM,  
MYSORE,MYSORE,  
Karnataka,570012

6. **Guard File(AICTE)**





All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724182 www.aicte-india.org

F.No. South-West/1-422491979/2011/EOA

Date: 01-09-2011

To  
The Principal Secretary (Hr. & Tech Education)  
Govt. of Karnataka, K. G.S., 6th Floor,  
S. S. Building, R. N. 645, Dr. B. R. Ambedkar Road,  
Bengaluru-560001

Sub: Extension of approval for the academic year 2011-12.  
Ref: Application of the Institution for Extension of Approval for the Year 2011-12

Sir/Madam,

In terms of the Regulations notified by the Council vide F.No. 37-3/Legal/2011 dated 10/12/2010 and norms, standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the extension of approval of the Council to

|                           |  |                       |   |
|---------------------------|--|-----------------------|---|
| Regional Office           | South-West                                 | Application Id        | 1-422491979   |
|                           |  | Permanent Id          | 1-14177311  |
| Name of the Institute     | SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING | Institute Address     | METAGALLI, KRS ROAD, MYSORE<br>KARNATAKA, INDIA<br>KARNATAKA, MYSORE, MYSORE, Karnataka, 570016 |
| Name of the Society/Trust | MAHAJANA EDUCATION SOCIETY(R)              | Society/Trust Address | JAYALAKSHMIPURAM, MYSORE, MYSORE, Karnataka, 570012   |
| Institute Type            | Unaided - Private                          |                       |   |

to conduct following courses with the intake indicated below for the academic year 2011-12

| Application Id: 1-422491979 |           |                 | Course                           | Full/Part Time | Affiliating Body  | Intake 2010-11 | Intake Approved for 11-12 | NRI | PIO | Foreign Collaboration |
|-----------------------------|-----------|-----------------|----------------------------------|----------------|-------------------|----------------|---------------------------|-----|-----|-----------------------|
| Program                     | Shift     | Level           |                                  |                |                   |                |                           |     |     |                       |
| MCA                         | 1st Shift | POST GRAD. UATE | MASTERS IN COMPUTER APPLICATIONS | FULL TIME      | Mysore University | 30             | 30                        | No  | No  | No                    |

The above mentioned approval is subject to the condition that SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In

Application Number : 1-422491979

Page 1 of 2

Note: This is a Computer generated Extension of Approval Letter. No signature is required.

Date of printing: 02-09-2011

To, Director Sir,  
SRJ 29/9/2011





*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

(Dr. K P Isaac)

Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
Health Centre Building  
Bangalore University Campus  
Bangalore - 560 009, Karnataka
2. **The Director Of Technical Education,**  
Karnataka
3. **The Registrar,**  
Mysore University
4. **The Principal / Director,**  
SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING  
METAGALLI, KRS ROAD, MYSORE  
KARNATAKA , INDIA  
KARNATAKA,  
MYSORE,MYSORE,  
Karnataka,570016
5. **The Secretary / Chairman,**  
MAHAJANA EDUCATION SOCIETY(R)  
JAYALAKSHMIPURAM,  
MYSORE,MYSORE,  
Karnataka,570012
6. **Guard File(AICTE)**



# All India Council for Technical Education

(A Statutory Body under Ministry of HRD, Govt of India)

7th floor, Chandralok Building, Janpath, New Delhi 110 001  
Phone : 11 23724151-57 FAX : 11 23724183 www.aicte-india.org

No. : South-West Region/1-14177311/2010/EOA

August 23, 2010

To,  
Principal Secretary (Hr. & Tech Education) Govt. of Karnataka, K. G.S.,  
6th Floor, M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,

Sub. : Extension of approval for the academic year 2010-11.

Sir,

In terms of the Regulations notified by the Council vide F. No. 37-3/Legal/2010 and norms, standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the extension of approval of the Council to :

**SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING, SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING, METAGALLI, KRS ROAD, MYSOREKARNATAKA, INDIAKARNATAKA, MYSORE, KARNATAKA, PIN : 570016**

for conduct of the following courses with the intake indicated below in the academic year 2010-11:

| Sr. No. | Program | Level | Shift       | Course                         | Intake 2009-10 | Intake 2010-11 |
|---------|---------|-------|-------------|--------------------------------|----------------|----------------|
| 1       | MCA     | PG    | First Shift | MASTER IN COMPUTER APPLICATION | 90             | 90             |

The above mentioned approval is subject to the condition that :

SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING, SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING, METAGALLI, KRS ROAD, MYSOREKARNATAKA, INDIAKARNATAKA, MYSORE, KARNATAKA, PIN : 570016

shall follow and adhere to the regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal and hard copy to Regional Office.

Anti Ragging :- The approval is subject to the institutions strictly complying with all the provisions made under the Anti ragging regulation notified by council vide F.No. 37/Legal/AICTE/2009 dated 1-7-2009 failing which, it will be liable to any action defined under clause 9(4) of this regulation.

Yours faithfully,

*[Signature]*  
Dr. S. G. Bhirud  
Director

- Copy to :
1. The Regional Office, South-West Region, Karnataka
  2. The Director of Technical Education, Govt. of Delhi.
  3. Guard File (AICTE)
  4. The Registrar, Affiliating University
  5. The Principal / Director,  
SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING, SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING, METAGALLI, KRS ROAD, MYSOREKARNATAKA, INDIAKARNATAKA, MYSORE, KARNATAKA, PIN : 570016

*TO  
Mrs. Subodha  
Ramesh*

Regional Officer  
South Western Regional Office  
All India Council for Technical Education  
Bangalore-9.





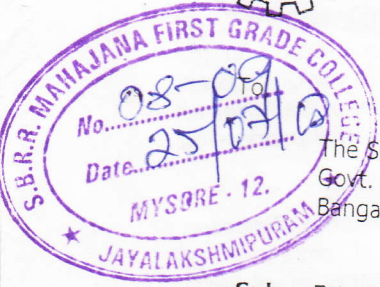


# अखिल भारतीय तकनीकी शिक्षा परिषद् ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

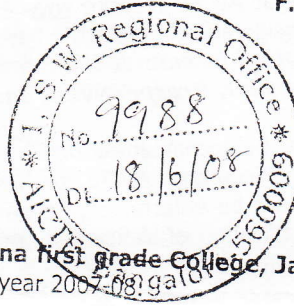
(भारत सरकार का सांविधिक निकाय) (A statutory body of the Govt. of India)

F.No. 411/KA-031/ET-MCA/99

Dated: 23/05/2008



The Secretary Education Dept.,  
Govt. of Karnataka, M.S. Building,  
Bangalore - 560001 (Karnataka)



Sub: Extension of approval to **SBRR Mahajana first grade College, Jayalakshmipuram, MYSORE-570012 Mysore**, beyond the academic year 2007-08.

As per the Regulations notified by the Council vide F.No. 37-3/Legal/2004 dated 14th Sept 2006 and norms, standards, procedures and conditions prescribed by the Council from time to time and based on the recommendations of the Appraisal Committee/ Expert Committee, I am directed to convey the extension of approval of the Council to **SBRR Mahajana first grade College, Jayalakshmipuram, MYSORE-570012 Mysore**, for conduct of the following courses with the intake indicated below:-

| S.No | Name of the Course(s) | Existing Intake | Revised Intake | Period of approval |
|------|-----------------------|-----------------|----------------|--------------------|
| 1    | MCA -FT               | 30              | 30             | 2008-09*           |
|      | Total=                | 30              | 30             |                    |
|      |                       |                 |                |                    |

\* The Compliance Report along with requisite processing fee is required to be submitted every year by 31<sup>st</sup> August irrespective of the period of approval.

The above approval is subject to rectification of following observations/deficiencies/ specific conditions by 31<sup>st</sup> August 2008.

#### Faculty

- > The Director is not qualified as per AICTE norms.
- > Eligible Director should be appointed before 30<sup>th</sup> June 2008

#### Built Up Area

- > NIL

#### Computers

- > NIL

#### Others

- > Library books shortfall by 1249 numbers (40.29 %)
- > Journals shortfall by 7 numbers ( 58.33 %)

Note: The mandatory disclosure in prescribed format if not hosted on the website should be hosted by 31<sup>st</sup> May, 2008, failing which action would be initiated as per the rules and regulations of the AICTE including No Admission / Withdrawal of approval.

Principal

25/7/08

*[Handwritten signature]*

copy received  
on 26/7/08



The institution is required to submit 2 copies of the Compliance Report, indicating the rectification of deficiencies along with mandatory disclosure and details of faculty recruited for each course in the prescribed format (available at AICTE Website [www.aicte.ernet.in](http://www.aicte.ernet.in)) to the concerned Regional Office latest by 31<sup>st</sup> August 2008 for consideration of approval beyond the session 2008-09. ***It may be noted that all the institutions are required to submit the Compliance Report along with requisite processing fee by 31<sup>st</sup> August, every year, irrespective of the period of approval.***

The Compliance Report must be accompanied with a processing fee of Rs. 40,000/- in the form of demand draft in the favor of Member Secretary, AICTE, payable at New Delhi. In the absence of processing fee the Compliance Report will not be entertained. Following the Compliance report, the Council would verify the status in respect of rectification of deficiencies through surprise random inspection without any prior notice.

The approval is further subject to fulfillment of following general conditions

- 1 That the management shall provide adequate funds for development of land and for providing related infrastructural, instructional and other facilities as per norms and standards laid down by the Council from time to time and for meeting recurring expenditure.
2. (a) That the admission shall be made only after adequate infrastructure and all other facilities are provided as per norms and guidelines of the AICTE.
- (b) That the admissions shall be made in accordance with the regulations notified by the Council from time to time.
- (c) That the curriculum of the course, the procedure for evaluation/ assessment of students shall be in accordance with the norms prescribed by the AICTE.
- (d) That the Institution shall not allow closure of the Institution or discontinuation of the course(s) or start any new course(s) or alter intake capacity of seats without the prior approval of the Council.
- (e) That no excess admission shall be made by the Institution over and above the approved intake under any circumstances. In case any excess admission is reported to the Council, appropriate penal action including withdrawal of approval shall be initiated against the Institution
- (f) That the institutions shall not have any collaborative arrangements with any Indian and/ or Foreign Universities for conduct of technical courses other than those approved by AICTE without obtaining prior approval from AICTE. In case any violation is reported to the Council, appropriate penal action including withdrawal of approval shall be initiated against the Institution
- (g) That the Institution shall not conduct any course(s) in the field of technical education in the same premises/ campus and / or in the name of the Institution without prior permission/ approval of AICTE. In case any violation is reported to the Council, appropriate penal action including withdrawal of approval shall be initiated against the Institution
- (h) The institution shall not conduct any non-technical course(s) in the same premises/ campus under any circumstances. In case any violation is reported to the Council, appropriate penal action including withdrawal of approval shall be initiated against the Institution
- 3 That the institution shall operate only from the approved location, and that the institution shall not open any off campus study centers/ extension centers directly or in collaboration with any other institution/ university/ organization for the purpose of imparting technical education without obtaining prior approval from the AICTE.


- 3 -

- 4 That the tuition and other fees shall be charged as prescribed by the Competent Authority within the overall criteria prescribed by the Council from time to time. No capitation fee shall be charged from the students/ guardians of students in any form.
- 5 That the accounts of the Institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the Council or any body or persons authorized by it.
- 6 That the Director/ Principal and the teaching and other staff shall be selected according to procedures, qualifications and experience prescribed by the Council from time to time and pay scales are as per the norms prescribed by the Council from time to time.
- 7 (a) That the institution shall furnish requisite returns and reports as desired by AICTE in order to ensure proper maintenance of administrative and academic standards.
- (b) That the technical institution shall publish an information booklet before commencement of the academic year giving details regarding the institution and courses/ programmes being conducted and details of infrastructural facilities including faculty etc. in the form of mandatory disclosure. The information booklet may be made available to the stakeholders of the technical education on cost basis. The mandatory disclosure information shall be put on the Institution Website. The information shall be revised every year with updated information about all aspects of the institution.
- (c) That it shall be mandatory for the technical institution to maintain a Website providing the prescribed information. The Website information must be continuously updated as and when changes take place.
- (d) That a compliance report in the prescribed format along with mandatory disclosures on fulfillment of the above conditions, shall be submitted each year by the Institution within the time limit prescribed by the Council from time to time **i.e. 31<sup>st</sup> August 2008 for the current year.**
- (e) That if Technical Institution fails to disclose the information or suppress and/ or misrepresent the information, appropriate action could be initiated including withdrawal of AICTE approval.
- 8 That all the laboratories, workshops etc. shall be equipped as per the syllabi of the concerned affiliated University and shall be in operational condition before making admissions.
- 9 That a library shall be established with adequate number of titles, books, journals (both Indian & Foreign) etc as per AICTE norms.
- 10 That a computer center with adequate number of terminals, Printers etc. shall be established as per AICTE norms.
- 11 AICTE may carry out random inspections round the year for verifying the status of the Institutions to ensure maintenance of norms and standards.
- 12 That the AICTE may also conduct inspections with or without notifying the dates to verify specific complaints of misrepresentation, violation of norms and standards, mal-practices etc.
- 13 That the Institution by virtue of the approval given by Council shall not automatically become claimant to any grant-in-aid from the Central or State Government.




14. That in the event of a student / candidate withdrawing before the starting of the course, the wait listed candidates should be given admission against the vacant seat. The entire fee collected from the student, after a deduction of the processing fee of not more than Rs. 1000/- (Rupees One thousand only) shall be refunded and returned by the Institution / University to the student/candidate withdrawing from the programme. It would not be permissible for Institutions and Universities to retain the School/Institution Leaving Certificates in original to force retention of admitted students (See Public Notice AICTE/DPG/03(01)/2008).
15. "That the institution shall take appropriate measures for prevention of ragging in any form, in the light of directions of Supreme Court of India in Writ Petition No. (C) 656 / 1998. In case of failure to prevent the instances of ragging by the institutions, the Council shall take appropriate action including withdrawal of approval".
16. That the Management shall strictly follow further conditions as may be specified/notified by the Council through various notifications in media including AICTE official website ([www.aicte.ernet.in](http://www.aicte.ernet.in)), from time to time.
17. In the event of non-compliance by the **SBRR Mahajana first grade College, Jayalakshmipuram, MYSORE-570012 Mysore**, with regard to guidelines, norms and conditions prescribed from time to time the Council shall be free to take measures for withdrawal of its approval or recognition, without consideration of any related issues and that all liabilities arising out of such withdrawal would solely be that of **SBRR Mahajana first grade College, Jayalakshmipuram, MYSORE-570012 Mysore**.

Yours faithfully,

  
Prof. H.C. Rai  
Advisor (E&T) & (M&T)

Copy to:

- 1 The Director of Technical Education, Govt. of Karnataka, Palace Road, Bangalore - 560 001
- 2 The Director  
**SBRR Mahajana first grade College,  
Jayalakshmipuram, MYSORE-570012  
Mysore**
- 3 The Regional Officer,  
South-West Regional Office, AICTE, Health Centre,  
Building, Bangalore University Campus,  
Bangalore - 560 009, Karnataka
- 4 The Registrar - Mysore University "Crawford Hall", Mysore - 570 005  
(He is requested to complete the process of affiliation for facilitating admissions.)
- 5 Guard File (AICTE)





# अखिल भारतीय तकनीकी शिक्षा परिषद्

## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(भारत सरकार का एक सांविधिक निकाय) (A STATUTORY BODY OF THE GOVT. OF INDIA)

F.No. 411/KA-031/ET-MCA/99

Date: May 11, 2007

To,

The Secretary Education Dept.,  
Govt. of Karnataka, M.S. Building,  
Dr. B.R. Ambedkar Veedhi,  
Bangalore - 560 001, Karnataka

**Sub: Extension of approval to SBRR Mahajana first grade College,, Jayalakshmipuram, MYSORE-570012, Mysore for the academic year 2007-08.**

Sir,

As per the Regulations notified by the Council vide F.No. 37-3/Legal/2004 dated 14<sup>th</sup> Sept 2006 and Norms, Standards, Procedures and Conditions prescribed by the Council from time to time and based on the recommendations of Appraisal Committee / Expert Committee, I am directed to convey the extension of approval of the Council to **SBRR Mahajana first grade College,, Jayalakshmipuram, MYSORE-570012, Mysore** for conduct of the following courses with the intake indicated below:

| Name of the Course(s) | Existing Intake | Revised Intake | Period of approval |
|-----------------------|-----------------|----------------|--------------------|
| MCA-FT                | 30              | 30             | 2007-2008          |

The above approval is subject to rectification of the following observations / deficiencies / specific conditions by 31<sup>st</sup> August 2007.

**Faculty:**

- Eligible Director/Principal is not qualified as per AICTE norms.
- Eligible Director/Principal may be appointed before 30.06.2007.
- There is a shortfall of faculty by 30 Nos.
- Sr. level faculty in cadre ratio as per AICTE norms should be appointed.
- AICTE pay scale is not implemented to all the faculty and staff.

**Built-up Area:**

- Nil

**Others:**

- No of Journals is short 66% (Req:12, Avail: 4, Shortfall: 8)

*to MCA file*

*Ram*  
**DIRECTOR**

*Signature*

**Principal**  
SBRR Mahajana first grade College,  
Jayalakshmipuram, MYSORE-570012



Contd. 2/-



- 3 -

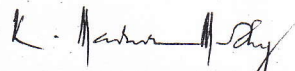
- 4 That the tuition and other fees shall be charged as prescribed by the Competent Authority within the overall criteria prescribed by the Council from time to time. No capitation fee shall be charged from the students/ guardians of students in any form.
- 5 That the accounts of the Institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the Council or any body or persons authorized by it.
- 6 That the Director/ Principal and the teaching and other staff shall be selected according to procedures, qualifications and experience prescribed by the Council from time to time and pay scales are as per the norms prescribed by the Council from time to time.
- 7
  - (a) That the institution shall furnish requisite returns and reports as desired by AICTE in order to ensure proper maintenance of administrative and academic standards.
  - (b) That the technical institution shall publish an information booklet before commencement of the academic year giving details regarding the institution and courses/ programmes being conducted and details of infrastructural facilities including faculty etc. in the form of mandatory disclosure. The information booklet may be made available to the stakeholders of the technical education on cost basis. The mandatory disclosure information shall be put on the Institution Website. The information shall be revised every year with updated information about all aspects of the institution.
  - (c) That it shall be mandatory for the technical institution to maintain a Website providing the prescribed information. The Website information must be continuously updated as and when changes take place.
  - (d) That a compliance report in the prescribed format along with mandatory disclosures on fulfillment of the above conditions, shall be submitted each year by the Institution within the time limit prescribed by the Council from time to time i.e. 31<sup>st</sup> August 2007 for the current year.
  - (e) That if Technical Institution fails to disclose the information or suppress and/ or misrepresent the information, appropriate action could be initiated including withdrawal of AICTE approval.
- 8 That all the laboratories, workshops etc. shall be equipped as per the syllabi of the concerned affiliated University and shall be in operational condition before making admissions.
- 9 That a library shall be established with adequate number of titles, books, journals (both Indian & Foreign) etc as per AICTE norms.
- 10 That a computer center with adequate number of terminals, Printers etc. shall be established as per AICTE norms.
- 11 AICTE may carry out random inspections round the year for verifying the status of the Institutions to ensure maintenance of norms and standards.
- 12 That the AICTE may also conduct inspections with or without notifying the dates to verify specific complaints of mis-representation, violation of norms and standards, mal-practices etc.
- 13 That the Institution by virtue of the approval given by Council shall not automatically become claimant to any grant-in-aid from the Central or State Government.
- 14 That the Management shall strictly follow further conditions as may be specified by the Council from time to time.

Contd. 4/-

-4-

- 15 In the event of non-compliance by the **SBRR Mahajana first grade College,, Jayalakshmipuram, MYSORE-570012,Mysore** with regard to guidelines, norms and conditions prescribed from time to time the Council shall be free to take measures for withdrawal of its approval or recognition, without consideration of any related issues and that all liabilities arising out of such withdrawal would solely be that of **SBRR Mahajana first grade College,, Jayalakshmipuram, MYSORE-570012,Mysore**.

Yours faithfully,

  
**Prof. K. Madhu Murthy**  
 Adviser- (M&T)

**Copy to:**

- 1 **The Director/Principal**  
**SBRR Mahajana first grade College,**  
**Jayalakshmipuram, MYSORE-570012**  
**Mysore**
- 2 **The Regional Officer,**  
 AICTE, Southwest Regional Office  
 Bangalore University Campus, P.K. Block, Palace Road,  
 Bangalore – 560009
- 3 **The Registrar,**  
 Mysore University  
 "Crawford Hall", Mysore - 570 005  
 (He is requested to complete the process of affiliation for facilitating admissions).
- 4 The Director,  
 Directorate of Technical Education,  
 Govt. of Karnataka, Palace Road,  
 Bangalore-560 001
5. Guard File (AICTE)





# अखिल भारतीय तकनीकी शिक्षा परिषद्

## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(भारत सरकार का एक सांविधिक निकाय) (A STATUTORY BODY OF THE GOVT. OF INDIA)

F.No. 411/KA-031/ET-MCA/99

Date: 15/05/2006

To,

The Secretary Education Dept.,  
Govt. of Karnataka, M.S. Building,  
Bangalore - 560001 (Karnataka)

**Sub:** Extension of approval to SBRR Mahajana first grade College, Jayalakshmipuram, MYSORE-570012 Mysore for the academic year 2006-07.

Sir,

As per the Regulations notified by the Council vide F.No. 37-3/Legal/2004 dated 28<sup>th</sup> November 2005 and norms, standards, procedures and conditions prescribed by the Council from time to time and based on the recommendations of Appraisal Committee / Expert Committee, I am directed to convey the extension of approval of the Council to SBRR Mahajana first grade College, Jayalakshmipuram, MYSORE-570012 Mysore for conduct of the following courses with the intake indicated below:

| Name of the Course(s) | Existing Intake | Revised Intake | Period of approval |
|-----------------------|-----------------|----------------|--------------------|
| MCA                   | 30              | 30             | 2006-2007          |

The above approval is subject to rectification of the following observations / deficiencies / specific conditions by 31<sup>st</sup> August 2006.

| Faculty :  |                            |                             |                      |
|------------|----------------------------|-----------------------------|----------------------|
| Course (s) | Number of Faculty required | Number of Faculty available | Shortfall in Faculty |
| MCA        | 08                         | 05                          | 03                   |
|            |                            |                             | 37.5%                |

- ❖ Sr. level faculty in cadre ratio as per AICTE norms should be appointed.
- ❖ AICTE Pay scales is not implemented to all the faculty and staff.
- ❖ The Director is not qualified as per AICTE norms.

➤ Built up area :

- ❖ There is a shortfall of 195.05 sq. mt. in the built up area as only 794.95 sq. mt. is available against a requirement of 990 sq. mt. (deficiency 19.7% %).

➤ Computer Facility :

- ❖ There is a shortfall of 05 computers as only 50 are available against a requirement of 55 computers

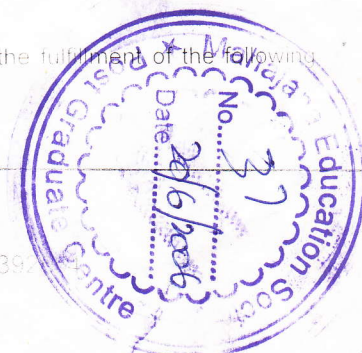
**Note:** The mandatory disclosure in prescribed format if not hosted on the website should be hosted by 31<sup>st</sup> May, 2006, failing which action would be initiated as per the rules and regulations of the AICTE including No Admission / Withdrawal of approval.

The institution is required to submit two copies of the Compliance Report, indicating the rectification of deficiencies along with mandatory disclosure and details of faculty recruited for each course in the prescribed format (available at AICTE Website [www.aicteernet.in](http://www.aicteernet.in)) to the concerned Regional Office latest by 31<sup>st</sup> August 2006 for consideration of approval beyond the session 2006-07.

\*The Compliance Report must be accompanied with a processing fee of Rs. 40,000/- in the form of demand draft in the favour of Member Secretary, AICTE, payable at New Delhi. In the absence of processing fee the Compliance Report will not be entertained. Following the Compliance report, the Council would verify the status in respect of rectification of deficiencies through surprise random inspection without any prior notice.

The above approval if granted after rectification of deficiencies would be subject to the fulfillment of the following general conditions

इंदिरा गांधी खेल संकुम, इन्द्रप्रस्थ एस्टेट, नए दिल्ली - 110002  
Indira Gandhi Sports Complex, I. P. Estate, New Delhi-110 002  
फोन / Phone : 23392500, 63-65-68, 71, 73-75, फैक्स / Fax : 011-23392500  
वेबसाइट / Website : [www.aicteernet.in](http://www.aicteernet.in)





F.No. 411/KA-031/ET-MCA/99

- 1 That the management shall provide adequate funds for development of land and for providing related infrastructural, instructional and other facilities as per norms and standards laid down by the Council from time to time and for meeting recurring expenditure.
2.
  - (a) That the admission shall be made only after adequate infrastructure and all other facilities are provided as per norms and guidelines of the AICTE.
  - (b) That the admissions shall be made in accordance with the regulations notified by the Council from time to time.
  - (c) That the curriculum of the course, the procedure for evaluation/ assessment of students shall be in accordance with the norms prescribed by the AICTE.
  - (d) That the Institution shall not allow closure of the Institution or discontinuation of the course(s) or start any new course(s) or alter intake capacity of seats without the prior approval of the Council.
  - (e) That no excess admission shall be made by the Institution over and above the approved intake under any circumstances. In case any excess admission is reported to the Council, appropriate penal action including withdrawal of approval shall be initiated against the Institution
  - (f) That the institutions shall not have any collaborative arrangements with any Indian and/ or Foreign Universities for conduct of technical courses other than those approved by AICTE without obtaining prior approval from AICTE. In case any violation is reported to the Council, appropriate penal action including withdrawal of approval shall be initiated against the Institution

---

- (g) That the Institution shall not conduct any course(s) in the field of technical education in the same premises/ campus and / or in the name of the Institution without prior permission/ approval of AICTE. In case any violation is reported to the Council, appropriate penal action including withdrawal of approval shall be initiated against the Institution
- (h) The institution shall not conduct any non-technical course(s) in the same premises/ campus under any circumstances. In case any violation is reported to the Council, appropriate penal action including withdrawal of approval shall be initiated against the Institution
- 3 That the institution shall operate only from the approved location, and that the institution shall not open any off campus study centers/ extension centers directly or in collaboration with any other institution/ university/ organization for the purpose of imparting technical education without obtaining prior approval from the AICTE.
- 4 That the tuition and other fees shall be charged as prescribed by the Competent Authority within the overall criteria prescribed by the Council from time to time. No capitation fee shall be charged from the students/ guardians of students in any form.
- 5 That the accounts of the Institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the Council or any body or persons authorized by it.
- 6 That the Director/ Principal and the teaching and other staff shall be selected according to procedures, qualifications and experience prescribed by the Council from time to time and pay scales are as per the norms prescribed by the Council from time to time.
7.
  - (a) That the institution shall furnish requisite returns and reports as desired by AICTE in order to ensure proper maintenance of administrative and academic standards.
  - (b) That the technical institution shall publish an information booklet before commencement of the academic year giving details regarding the institution and courses/ programmes being conducted and details of infrastructural facilities including faculty etc. in the form of mandatory disclosure. The information booklet may be made available to the stakeholders of the technical education on cost basis. The mandatory disclosure information shall be put on the Institution Website. The information shall be revised every year with updated information about all aspects of the institution.
  - (c) That it shall be mandatory for the technical institution to maintain a Website providing the prescribed information. The Website information must be continuously updated as and when changes take place.

- (d) That a compliance report in the prescribed format along with mandatory disclosures on fulfillment of the above conditions, shall be submitted each year by the Institution within the time limit prescribed by the Council from time to time i.e. 31<sup>st</sup> August 2006 for the current year.
- (e) That if Technical Institution fails to disclose the information or suppress and/ or misrepresent the information, appropriate action could be initiated including withdrawal of AICTE approval.
- 8 That all the laboratories, workshops etc. shall be equipped as per the syllabi of the concerned affiliated University and shall be in operational condition before making admissions.
- 9 That a library shall be established with adequate number of titles, books, journals (both Indian & Foreign) etc as per AICTE norms.
- 10 That a computer center with adequate number of terminals, Printers etc. shall be established as per AICTE norms.
- 11 AICTE may carry out random inspections round the year for verifying the status of the Institutions to ensure maintenance of norms and standards.
- 12 That the AICTE may also conduct inspections with or without notifying the dates to verify specific complaints of mis-representation, violation of norms and standards, mal-practices etc.
- 13 That the Institution by virtue of the approval given by Council shall not automatically become claimant to any grant-in-aid from the Central or State Government.
- 14 That the Management shall strictly follow further conditions as may be specified by the Council from time to time.
- 15 In the event of non-compliance by the **SBRR Mahajana first grade College, Jayalakshmipuram, MYSORE-570012 Mysore** with regard to guidelines, norms and conditions prescribed from time to time the Council shall be free to take measures for withdrawal of its approval or recognition without consideration of any related issues and that all liabilities arising out of such withdrawal would solely be that of **SBRR Mahajana first grade College, Jayalakshmipuram, MYSORE-570012 Mysore**.

Yours faithfully

*Raj*  
Dr. Rajnish Shrivastava  
Adviser- UG/PG(M&T)

Copy to:

- 1 The Principal,  
SBRR Mahajana first grade College,  
Jayalakshmipuram, MYSORE-570012  
Mysore
- 2 The Regional Officer,  
AICTE, South-west Regional Office,  
Bangalore University Campus, P.K. Block, Palace Road  
Bangalore - 560009
- 3 The Director of Technical Education,  
Govt. of Karnataka, Palace Road,  
Bangalore - 560 001
- 4 The Registrar,  
Mysore University,  
"Crawford Hall", Mysore - 570 005  
(He is requested to complete the process of affiliation for facilitating admissions)
- 5 Guard File (UG/PG).







अखिल भारतीय तकनीकी शिक्षा परिषद्  
**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
 (भारत सरकार का एक सांविधिक निकाय) (A STATUTORY BODY OF THE GOVERNMENT OF INDIA)

411/KA-031/ET-MCA/99

To,  
 The Secretary Education Department  
 Govt. of Karnataka,  
 M.S. Building, Dr. B.R. Ambedkar Veedhi,  
 Bangalore-560 001, Karnataka

Sub: Extension of approval to SBRR MAHAJANA FIRST GRADE COLLEGE, ,  
 JAYALAKSHMIPURAM, , MYSORE-570 012 , , , for the year 2005-06-reg.

Sir,

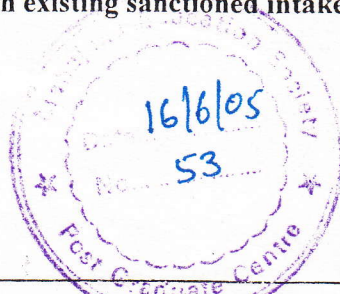
As you are aware, All India Council for Technical Education has been mandated under the AICTE Act, 1987 to ensure **maintenance of norms and standards** with regard to technical education in the country. In exercise of this mandate, the Council insists on fulfillment of the minimum requirements prescribed for imparting technical education by the institution so that **quality** is not compromised and stakeholders are satisfied. The Council also undertakes an **annual Inspection** of the institutions and conveys deficiencies to them for **rectification**.

It has been observed however that notwithstanding the Council's **repeated advice** to comply with minimum norms and standards, many institutions continue to be **complacent** about taking steps to remedy the deficiencies. Such institutions suffer from **critical deficiencies** of faculty and other requirements. Feedback of students with regard to quality of education imparted by such institutions has evoked grave concern. The Expert Committees, following **holistic appraisal** during inspections, have also pointed out severe shortcomings in key areas.

Your institution has several deficiencies, which are listed in **Annexure-A** for your perusal. These deficiencies have rendered the institution liable for strict punitive action. However, the Council has decided to take a lenient view and put only the course(s) which suffer from the most critical deficiency i.e. **shortage of faculty** in the reduced intake category. The approved course(s) along with recommended intake for the year 2005-06 in respect **SBRR MAHAJANA FIRST GRADE COLLEGE, , JAYALAKSHMIPURAM, , MYSORE-570 012 , , ,** is as under:-

| COURSE   | APPROVED INTAKE<br>2004-05 | APPROVED INTAKE<br>2005-06 |
|----------|----------------------------|----------------------------|
| MCA (FT) | 40                         | 30                         |

Note:- Additional intake / new courses / PIO quota not granted on account of deficiencies in running of existing courses with existing sanctioned intake (wherever applicable).



*Signature*  
 13/6/05



The Council is committed to facilitating the institutions to come up to the expectations of the stakeholders through rectification of deficiencies. It has therefore been decided by the Council to give yet another opportunity to **rectify** at least the deficiency of faculty irrespective of the cadre ratio for consideration of restoration of UG course(s) in Engineering & Technology / Pharmacy / MBA and MCA. However, for restoration of intake at PG level in Engineering &

Technology and Pharmacy, a minimum of one faculty with Ph.D. qualification and two with postgraduate qualifications in the respective discipline would be essential.

In case the institution is able to recruit the required faculty for individual course and intimate the Council regarding the same in the **enclosed Proforma** (a copy to be sent to concerned Regional Office) latest by 7<sup>th</sup> July, 2005, the Council would favorably consider proportionately restoring intake in course(s) where it has been reduced as soon as the appeal is received by the Council

Please note that the Council may independently verify the factual status in respect of recruitment of faculty. The institution shall be liable for strict action including action under the relevant provisions of Indian Penal Code in case false information is furnished to the Council on recruitment of faculty.

It may also be noted that relaxation in respect of rectification of deficiencies in terms of faculty is applicable only for the purpose of **restoration of intake** for the academic year 2005-06. All other deficiencies including appointment of faculty have to be complied with by 31/08/2005 for extension of approval for the year 2006-07.

A compliance report indicating rectification of **all the deficiencies** including details of faculty recruited for each course must be received by the Council latest by 31<sup>st</sup> August, 2005 to entitle your institution for extension of approval for the year 2006-07. The compliance report must be accompanied with a visiting/processing fee as prescribed by the Council in the form of a demand draft in favour of Member Secretary, AICTE payable at New Delhi. In the absence of the processing / visiting fee, the compliance report may not be entertained.

Following the compliance report, the Council would verify the status in respect of rectification of deficiencies through physical inspection without any prior intimation. The institution should therefore be prepared for random inspection without any prior notice. Extension of approval for the year 2006-07 shall be dependent on the compliance report and the outcome of the surprise inspection.

**Enclosure:- Annexure-A**

Yours faithfully



(Dr. P. Venkateswara Rao)  
Adviser (UG/ PG)







69

42

14

**अखिल भारतीय तकनीकी शिक्षा परिषद्**  
**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
(भारत सरकार का एक सांविधिक निकाय) (A STATUTORY BODY OF THE GOVT. OF INDIA)

**F. No : 411/KA-031/ET-MCA/99**

**Date : 14-05-2004**

To,  
The Secretary Education Dept.  
Govt. of Karnataka,  
M.S. Building,  
Bangalore - 560 001  
Karnataka

**Subject: Extension of approval of AICTE to SBRR MAHAJANA FIRST GRADE COLLEGE, JAYALAKSHMIPURAM, MYSORE-570 012, for the academic year 2004-2005.**

Sir / Madam,

The Application / Proposal and / or the Compliance Report Received from **SBRR MAHAJANA FIRST GRADE COLLEGE, JAYALAKSHMIPURAM,, MYSORE-570 012**, has been processed as per laid down procedure, guidelines, policy and / or norms and standards of AICTE, mentioned in AICTE Regulations and / or "AICTE Hand Book for Approval Process".

I am directed to state that the All India Council for Technical Education (AICTE) is pleased to accord approval to **SBRR MAHAJANA FIRST GRADE COLLEGE, JAYALAKSHMIPURAM, MYSORE-570 012**, for extension of AICTE Approval for Variation in intake (Increase / Decrease), as applicable, for Post Graduate course with Annual Intake and period of approval as given below: -

| COURSE   | EXISTING ANNUAL INTAKE | REVISED APPROVED INTAKE | PERIOD OF APPROVAL |
|----------|------------------------|-------------------------|--------------------|
| MCA (FT) | 40                     | 40                      | 2004-2005          |

Contd... 2/-



इंदिरा गांधी खेल परिसर, इन्द्रप्रस्थ एस्टेट, नई दिल्ली - 110002

Indira Gandhi Sports Complex, I. P. Estate, New Delhi -110 002

दूरभाष / Phone : 23392500, 63-65-68, 71, 73-75 फैक्स / Fax : 011-23392554

वेबसाइट / Website : www.aicte.ernet.in

*Handwritten signature and date:*  
2/12/04

----- 2 -----

The Approval accorded above is subject to the conditions that any of the following is not violated or intervened during the period of validity of said approval:

1. The institution must continue to have Affiliation to a University for the above courses before making admissions. In the absence of such Affiliation this letter of approval shall be treated as Withdrawn (Order of the High Court of Madras in W. P. No. 33256 of 2002 and other Batch of Petitions).
2. The approved course(s) shall commence as per the academic calendar of the Affiliating University.
3. If this letter of approval is received by you after the closing date of State / National Level Central Counseling for Admissions in the concerned State / Union Territory, this Letter of Approval will not be valid for making any admission during the above specified academic year, and shall be treated as withdrawn.
4. *No excess admission shall be made by the Institution during any academic year.*
5. The approval is valid only for the academic year 2004-2005. If no further extension of AICTE approval is received beyond the academic year 2004-2005, this Approval Letter will not be valid for making any admission for the subsequent years.
6. Any other condition(s) as may be specified by AICTE from time to time.

Consequent to the Supreme Court Judgment, the Model Constitution of Governing Body notified by AICTE in its approval Regulations 1994, stands overruled. It has been decided that while AICTE will not insist on any nomination in the Governing Body of Private Unaided Institutions, the Affiliating University / State Government shall impose minimum conditions of affiliation, such as, prescription of qualifications of Governing Body Members, in order to ensure academic excellence. It shall be desirable for the private unaided institutions to induct at least 50% of the members of the Governing Body drawn from renowned academia, academic administrators, Subject Experts and professionals from industry, in order to seek their innovative ideas for continuous improvement in the delivery of teaching learning process, matching best practices elsewhere and achieve excellence.

In exercise of power conferred under 10(p) of the AICTE Act, AICTE, may inspect the institution any time, it may deem fit to verify the progress / compliance or for any other purpose.

The suggested improvements, enclosed, herewith, should be complied with before the commencement of the next academic year, failing which appropriate action may be effected.


----- 3 -----



- 3 -

In the event of infringement / contravention or non-compliance of the above Conditions and / or the provisions of AICTE Act & Regulations / Guidelines / Norms & Standards as prescribed by AICTE, further actions leading to "Reduced Intake" or "No Admission or Withdrawal of Approval, may be taken by AICTE and the liability arising out of such action shall be solely that of the Management of the Institution.


Yours faithfully,

  
(K. Subramanian)  
Adviser (PG)

**Encl.: Suggested Improvements (Specific Conditions) :**

**Copy to:**

- The Regional Officer, AICTE , SWRO, P.K.Road, Palace Road, Bangalore - 560 009, Karnataka
- The Concerned Registrar,
- The Principal / Director  
**SBRR MAHAJANA FIRST GRADE COLLEGE,  
JAYALAKSHMIPURAM,  
MYSORE-570 012**
- The Director of Technical Education, Govt. of Karnataka, Palace Road, Bangalore - 560 001
- Guard File, Bureau (PG), AICTE.

  
(K. Subramanian)  
Adviser (PG)

TO MES  
P. Subramanian  
25/5/04



अखिल भारतीय तकनीकी शिक्षा परिषद्  
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
(भारत सरकार का एक सांविधिक संस्थान) (A STATUTORY BODY OF THE GOVERNMENT OF INDIA)

53  
F.No 411/KA-031/ET-MCA/99  
Dated:-June 4, 2002

To

The Secretary Education Dept.,  
Govt. of Karnataka, M S Building,  
Bangalore - 560 001.  
Karnataka.

15/07/02

**Subject:** Extension of Approval, to SBRR MAHAJANA FIRST GRADE COLLEGE,,JAYALAKSHMIPURAM,,MYSORE-570 012,,, KARNATAKA for conduct of MCA programmes.

Sir,

I am directed to state that the All India Council for Technical Education (AICTE), is pleased to accord extension of approval to SBRR MAHAJANA FIRST GRADE COLLEGE,,JAYALAKSHMIPURAM,,MYSORE-570 012,,, KARNATAKA only for the course(s) and intake capacity as given below with the specific conditions that admission shall be made through the Central Counseling by the Govt. of KARNATAKA only:

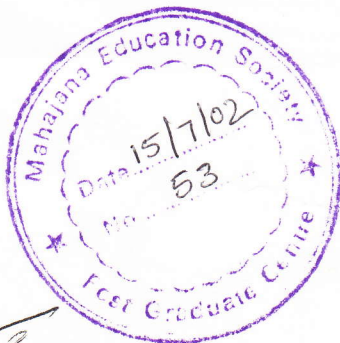
| COURSE (s) | PREVIOUS APPROVED INTAKE | REVISED APPROVED INTAKE | PERIOD OF APROVAL |
|------------|--------------------------|-------------------------|-------------------|
| MCA (FT)   | 40.                      | 40.                     | 2002-2004         |

This approval has been accorded subject to fulfillment of specific conditions listed at Annexure- I (if any) and Norms and Standards & General Conditions as stipulated by Council in Annexure-II.

Further, in the event of infringement/contravention or non-compliance of the norms & standards prescribed by the AICTE during the last approved academic year, the Council shall take further action to withdraw approval to this case for admission during subsequent academic year and the liability arising out of such withdrawal of approval will be solely that of Management / Trust /Society and/or institutions .

The Council reserves the right to visit the Institution any time it may deem fit to verify the compliance of norms and standards of AICTE.

You are requested to kindly monitor the progress made by this institution for fulfillment of the norms & standards of the Council & keep the concerned Regional Committee and AICTE informed.



(R.S. GAUD)  
ADVISER (PGER)

Contd...2/-



- 2 -

53  
F.No.: 411/KA-031/ET-MCA/99

copy to:

1. The Regional Officer,  
AICTE, Southern Regional Officer,  
Health Centre Building,  
Bangalore University Campus,  
Bangalore – 560 009.

He is requested to monitor compliance with the norms & standards and conditions stipulated by the Council and keep the concerned Regional Committee and the AICTE informed of the same.

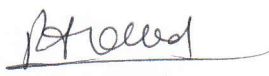
He is also requested to ensure the receipt of notarised undertaking as specified by the Council from the institution / management concerned within the stipulate time frame.

2. The Director of Technical Education,  
Govt. of Karnataka, Palace Road,  
Bangalore – 560 001.
3. The Registrar, UNIVERSITY OF MYSORE

He is requested to complete the process of affiliation for facilitating admissions.

4. The Principal.  
**SBRM MAHAJANA FIRST GRADE COLLEGE,**  
**JAYALAKSHMIPURAM,,**  
**MYSORE-570 012,**  
**, KARNATAKA**

5. Guard File.

  
(R S GAUD)  
ADVISER (PGER)



**अखिल भारतीय तकनीकी शिक्षा परिषद्**  
**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
 (भारत सरकार का एक सांविधिक संस्थान) (A STATUTORY BODY OF THE GOVERNMENT OF INDIA)

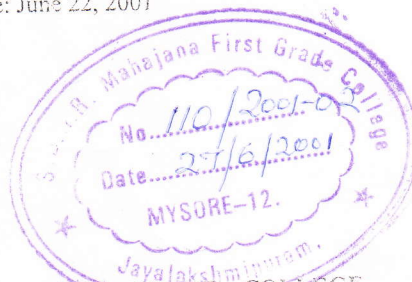
F.No 411/KA-031/ET-MCA/99

Date: June 22, 2001

To

The Secretary Education Department  
 Government of Karnataka  
 M.S. Building  
 Bangalore - 560 001

*[Signature]*  
 27/06/01



Subject: Extension of AICTE approval to **SBRM MAHAJANA FIRST GRADE COLLEGE, JAYALAKSHMIPURAM, MYSORE-570 012** for conduct of MCA programme for the academic year(s) 2001-2002.

Sir,

I am directed to state that on consideration of the reports of the Expert Committee and in consultations with the concerned agencies in this regard, the All India Council for Technical Education (AICTE), is pleased to accord extension of approval to **SBRM MAHAJANA FIRST GRADE COLLEGE, JAYALAKSHMIPURAM, MYSORE-570 012** only for the course(s) and intake capacity as given below with the specific conditions that admission shall be made through the Central Counseling by the Govt. of Karnataka only:

| Course(s)  | Existing Approved Intake | New Approved/ Revised Intake | Course Duration (Years) | Period of Approval |
|--|--------------------------|------------------------------|-------------------------|--------------------|
| MASTERS IN COMPUTER APPLICATIONS (MCA) FULL TIME | 40.                      | 40.                          | 3 YEARS                 | <u>2001-2002</u>   |

This approval has been accorded subject to fulfillment of norms & standards of the Council for the course(s) and intake approved above.

Further the observations and specific conditions (if any) of the expert committee are annexed with this letter. The institution shall fulfill all the conditions without any delay; Non-fulfillment of the specific conditions will lead to withdrawal of approval without need of any more opportunity, as the institution is well aware of the deficiencies.

The admission will be made in accordance with Regulations notified by the AICTE vide GSR 476(E) dated 20.5.1994 based on the Hon'ble Supreme Court Judgement dated 04.02.1993 with regard to WP.No.607 of 1992 in the case of Unni Krishanan JP and other etc. V/S State Govt. of Andhra Pradesh and others etc. and later judgments. Any Management/institute/trust or Society shall announce admissions directly under any circumstances. Any action contrary to this provision taken by the institute will make it liable to be derecognised.

Contd.. 2/-



- 2 -

411/KA-031/ET-MCA/99

Further, in the event of infringement/contravention or non-compliance of the norms & standards prescribed by the AICTE during the last approved academic year, the Council shall take further action to withdraw approval to this case for admission during subsequent academic year and the liability arising out of such withdrawal of approval will be solely that of Management / Trust / Society and/or institutions.

The Council reserves the right to visit the Institution any time it may deem fit to verify the compliance of norms and standards of AICTE.

You are requested to kindly monitor the progress made by this institution for fulfillment of the norms & standards of the Council & keep the concerned Regional Committee and AICTE informed.

Yours faithfully



(Prof.R.S.Gaud)  
Adviser (E&T)

copy to:

1. The Regional Officer, AICTE, South Western Regional Office, Bangalore University Campus, Palace Road, Bangalore - 560 009.

He is requested to monitor compliance with the norms & standards and conditions stipulated by the Council and keep the concerned Regional Committee and the AICTE informed of the same.

He is also requested to ensure the receipt of notarised undertaking as specified by the Council from the institution / management concerned within the stipulate time frame.

2. The Director of Technical Education, Govt. of Karnataka, Palace Road, Bangalore - 560 001.
3. The Registrar, UNIVERSITY OF MYSORE

He is requested to complete the process of affiliation for facilitating admissions.

4. The Principal. SBRR MAHAJANA FIRST GRADE COLLEGE,, JAYALAKSHMIPURAM, MYSORE-570 012 .
5. Guard File.

## ANNEXURE

F.NO: 411/KA-031/ET-MCA/99

## NAME OF THE INSTITUTE

SBRR MAHAJANA FIRST GRADE COLLEGE,  
JAYALAKSHMIPURAM,  
MYSORE-570 012

SPECIFIC CONDITIONS / REMARKS:

- i) AICTE pay scales are not being implemented. Faculty is not being paid AICTE pay scales. AICTE pay scales should be implemented at the earliest.
- ii) Computing facilities are inadequate and 16 additional PCs should be installed.
- iii) Faculty strength is not as per AICTE Norms. Lack of senior faculty at the level of Professor and Assistant Professor. Faculty-Student ratio should be as per AICTE Norms. Senior faculty at the level of Professor & Assistant Professor (One each) should be inducted at the earliest

B. S. D.  
Adviser (E & T)

S. S. D.





अखिल भारतीय तकनीकी शिक्षा परिषद्  
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
(भारत सरकार का एक सांविधिक संस्थान) (A STATUTORY BODY OF THE GOVERNMENT OF INDIA)

PROF. A.M. AGRAWAL  
ADVISER (E&T)

F.No.: 411/KA-031/ET-MCA/99  
Date : October 25, 2000

To,  
SECRETARY, EDUCATION DEPARTMENT,  
GOVT. OF KARNATAKA,  
H.S. BUILDING,  
BANGALORE - 560 001,  
KARNATAKA.



Obtained (in Person) from  
AICTE office B'lore  
at 11:15 am on 26/02/01  
[Signature]

Sub.: Extension of AICTE approval to SBRR MAHAJANA FIRST GRADE COLLEGE, JAYALAKSHMIPURAM, MYSORE-570 012 for conduct of Master in Computer Applications (MCA) programme for the academic year 2000-2001.

Sir,

I am directed to state that on consideration of the Reports of the Expert Committee and in consultations with the concerned agencies in this regard, the All India Council for Technical Education (AICTE) is pleased to accord extension of approval to SBRR MAHAJANA FIRST GRADE COLLEGE, JAYALAKSHMIPURAM, MYSORE-570 012 only for the course and intake capacity as given below with specific conditions that admission shall be made through the Central Counselling by the Govt. of Karnataka only :

NAME OF THE COURSE

APPROVED INTAKE

Master in Computer  
Applications(MCA)  
(3 Years Full Time)

40

This approval has been accorded subject to fulfillment of Norms and Standards of the Council for the course(s) and intake approved above.

Further, the observations and specific conditions (if any) of the expert committee are annexed to this letter. The institution shall fulfill all the conditions without any delay. Nonfulfillment will lead to withdrawal of approval without the need of any more opportunity, as the institution is well aware of the deficiencies.

1/3 [Signature]

Condt....2

The admission will be made in accordance with Regulations notified by the AICTE vide GSR 476(E) dated 20.05.1994 based on the Hon'ble Supreme Court Judgement, dated 04.02.1995 with regard to WP(C) No. 607 of 1992 in the case of Unni Krishnan v. State Government of Andhra Pradesh and others etc. and later judgements. No Management/Institute/Trust or Society shall announce admissions directly under any circumstances. Any action contrary to this provision taken by the Institute will make it liable to be derecognised.

Further, in the event of infringement/contravention or non compliance of the Norms and Standards prescribed by the AICTE during the last approved academic year, the Council shall take further action to withdraw approval to this case for admission during subsequent academic year and the liability arising out of such withdrawal of approval will be solely that of the Management/Trust/Society and/or institutions.

The Council may inspect/visit the Institute any time it may deem fit to verify progress/compliance.

You are requested to kindly monitor the progress made by this institution for fulfillment of the Norms and Standards of the Council and keep the AICTE informed.

Yours faithfully

Anand Mohan Agarwal  
(A.M. Agrawal)  
25/10/95

2/3

Contd....3

Copy to:

1. The Regional Officer, South Western Regional Office, AICTE, Bangalore University Campus, Palace Road, Bangalore - 560 002.

He is requested to closely monitor the compliance of norms and standards stipulated by the Council and keep the AICTE informed of the same.

The infrastructural and other facilities shall be reviewed during the last approved academic year and recommendations of the Expert Committee be made available to AICTE.

2. Director of Technical Education, Govt. of Karnataka, Palace Road, Bangalore 560 001.
3. The Principal/ Director, CGRR HANAJANA FIRST GRADE COLLEGE, JAYALAKSHMIPURAM, MYSORE-570 012

With a request to fulfill the deficiencies as annexed to this letter and submit the compliance by december, 2000 to the Regional Office.

He is informed that this is an opportunity given to the institute.

This may also be taken as advance notice that failure to rectify the deficiencies will entail withdrawal of approval as persistence of these deficiencies are detrimental to the quality of teaching learning process.

4. The Registrar, UNIVERSITY OF MYSORE.

He is requested to complete the process of affiliation for facilitating admissions in the course(s) and intake approved by the Council.

5. Guard file, AICTE.

*Pominder Randhawa*

(Pominder Randhawa)  
Asst. Director

373



(P4)

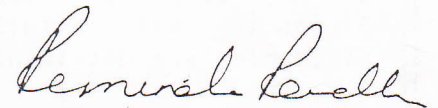
Annexure-I

F.No:411/KA-031/ET-MCA/99

SBRR Mahajana First Grade College  
Jayalakshmipuram, Mysore- 570 012.

Specific Conditions:

1. Existing Temporary building is adequate for first year only.
2. Library to be up graded with 500 books of 150 titles to be added.
3. 4 Journals to be added with a full time properly qualified library & support staff should be appointed.
4. Full time full scale qualified permanent teaching staff to be appointed.
5. Advisory body as per AICTE norms to be constituted.



Rominder Randhawa  
Assit. Director

① Action taken

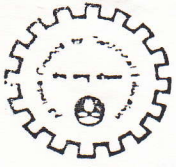
②

③ Comp Today , Comp. World , PC Quest  
Express World  
CHIR order placed

④

⑤





अखिल भारतीय तकनीकी शिक्षा परिषद्  
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
(भारत सरकार का एक सांविधिक संस्थान) (A STATUTORY BODY OF THE GOVERNMENT OF INDIA)

PROF. B. S. SANGAMESHWARA  
ADVISOR (E&T)

Secretary Education Department,  
Govt. of Karnataka,  
H.S. Building,  
Bangalore-560 001.



65A  
F.No.411-KA-031/ET-MCA/99  
Dated:-August 12,1999

Sub: Approval to Mahajana Education Society, Jalakshmipuram, Mysore-570 012 for establishment of SBRR Mahajana First Grade College, Jayalakshmipuram, Mysore-570012 to conduct MCA (FT) programme.

Sir,

I am directed to state that on consultations with the concerned State Govt. and the affiliating University and on recommendations of the sub-committee of the concerned All India Board for Computer Science, Engineering, Technology and Application and the Expert Committee constituted by the Council, the All India Council for Technical Education (AICTE) is pleased to accord approval to Mahajana Education Society, Jalakshmipuram, Mysore-570 012 for establishment of SBRR Mahajana First Grade College, Jayalakshmipuram, Mysore-570012 for conducting the following courses & intake for the academic year 1999-2000.

| COURSE                               | DURATION          | ANNUAL INTAKE |
|--------------------------------------|-------------------|---------------|
| Master in Computer Application (MCA) | 3 yrs (Full Time) | 40 (Forty)    |

This approval has been accorded subject to fulfillment of Specific Conditions as given in Annexure - 1, guidelines and Norms & Standards as stipulated by AICTE.

The admission will be made in accordance with Regulations notified by the AICTE vide GSR 476(E) dated 20-05-1994 based on the Hon'ble Supreme Court Judgement dated 04-02-1993 with regard to WP(C) No. 607 of 1992 in the case of Union Krishnaiah JP and other etc. V/s. State Government of Andhra Pradesh and others etc. and later judgements. No Management/Institute/Trust or Society shall announce admissions directly under any circumstances. Any action contrary to this provision taken by the Institute will make it liable to be derecognised.

Further in the event of infringement/contravention or non-compliance of the Norms and Standards as prescribed by the AICTE, the Council shall take further action to withdraw approval and the liability arising out of such withdrawal of approval will be solely that of the Management/ Trust/ Society and/or Institution.

इंदिरा गांधी खेल परिसर, इन्द्रप्रस्थ एस्टेट, नई दिल्ली - 110 002  
Indira Gandhi Sports Complex, I.P. Estate, New Delhi - 110 002  
Phone : 3379010/11/12/13/15/16/17/18, Fax : 011-3379002



अखिल भारतीय तकनीकी शिक्षा परिषद्, नई दिल्ली  
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, New Delhi

Continuation Sheet .....

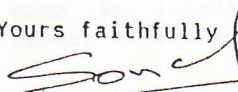
The Council may inspect/visit the Institute/University at any time it may deem fit to note progress/compliance.

The attention of the Management is drawn to the fact that the approval given now is only for one academic session, at the end of which an Expert Committee shall visit to assess if the Norms and Standards as stipulated by AICTE are fulfilled, and only then will the continuation or otherwise shall be intimated.

You are requested to kindly monitor the progress made by the above mentioned Institute for fulfillment of the Norms and Standards of the Council and keep the concerned Regional Office and AICTE, New Delhi informed.

Yours faithfully

(B.G. Sangameshwara)

  
16/8/99



## ANNEXURE - II

(Notarized Undertaking to be submitted duly signed on a non-judicial stamp paper)

I/We hereby undertake on behalf of the ..... (Name of Trust/ Society) to follow and fulfill the following :

1. The admissions shall be made only after adequate infrastructure and all other facilities are created as per norms and guidelines of the AICTE/Govt. of India/ State Govt. and obtaining the affiliation from the concerned University in case of degree programs. The Institute shall fulfill all specific conditions(if any) as laid down in this letter or revised by the AICTE from time to time.
2. The admission to the approved program shall be made only once in a year for approved intake capacity only and no increase in intake over and above the intake mentioned in this letter shall be permitted.
3. The approved course shall commence as per the academic calendar of the affiliating university or in the month of July - August of each academic year.  
The curriculum of the course, the procedure for evaluation/ assessment of students shall be in accordance with the norms prescribed by the AICTE/ affiliating agency.
5. The faculty strength and quality shall be maintained by the institute as per qualifications and pay scales prescribed by AICTE from time to time. The selection of faculty shall be made by a selection committee having representation from the State Govt./ University and AICTE.
6. The tuition fee and other charges shall be charged as prescribed by the competent authority (i.e. State Level Committee constituted by AICTE as stipulated in CSR 476(E)).
7. All academic and physical infrastructural facilities shall be continued to be provided/ updated by the institute as prescribed by AICTE from time to time.
8. No new course(s) shall be started in the same premises and no increase shall be made in the intake of other existing courses without prior concurrence of the AICTE.
9. The Governing body and Advisory body of the institute shall be constituted as per Guidelines prescribed by the AICTE from time to time.
10. The location and name of institution shall not be changed after the date of issue of first approval letter. The name and title of the institution shall not violate "The Emblems and Names (Prevention of Improper use) act 12 (1950) of Government of India.
11. No change in the composition of society/ trust shall be permitted without AICTE's prior concurrence.
12. The institution shall furnish requisite documents and reports as desired by AICTE from time to time in order to ensure proper maintenance of infrastructure and academic standards.
13. The administrative, academic and financial records including accounts shall be maintained for this Program. The accounts shall be audited annually by a Chartered Accountant and all the records and reports shall be open for inspection by the AICTE or anybody authorized by it.

Contd\2.....

- 2 -

11. The Council may decide to send an Expert Committee to visit the institute to verify the compliance of the conditions as laid down and any other specific conditions to make necessary recommendations for further extension of AICTE approval to the conduct of the approved course(s).
15. The information furnished in respect of the proposal are factual and correct. In the event of any information is found to be false, misleading or suppressed at a later date the approval accorded may be withdrawn by the AICTE in pursuance of Clause 12 of AICTE Regulations, 1994.
16. In the event of non-compliance by the Society with regard to Act, Gazette Regulations/ Guidelines, norms and conditions laid down by AICTE from time to time, the AICTE or a body or a person authorized by it will be free to take measures for withdrawal of its approval without consideration of any related issues and that all liabilities arising out of such a withdrawal would solely be that of the concerned Society.
17. The institute by virtue of the approval given by AICTE shall not automatically become claimant to any financial grant or assistance from the Central or State Government.
18. The institute shall observe all instructions/ guidelines issued by the AICTE regarding mode of selection of candidates for admissions to prescribing fees. No capitation shall be charged and no charges other than the fee fixed by the Competent Authority shall be levied on students.
19. The Institution shall be liable to bear all expenses payable to the students admitted to academic programs due to discontinuation of the institution by its own will or by AICTE including all demurrages incurred due to loss of time already pursued by the admitted students in the programs. The Institution shall also be responsible for suitable demurrages to the faculty and staff recruited in it.
20. The management of the college shall fully comply with the "SCHEME" as prescribed by the Supreme Court in its judgment dated 4.2.83 with regard to WP(c) No. 607 of 1992 in the case of Unnikrishnan and others vs. State of Andhra Pradesh and others and the related guidelines and criteria as may be issued by the AICTE, UGC or the Central Government from time to time.
21. The annual intake capacity of approved program shall be restricted within the intake approved by AICTE. Under no circumstances, the Institution shall admit students in excess to the intake approved by AICTE.
22. The institutions shall not collaborate or associate with any other institution or University neither Indian nor foreign to award one or more joint degrees or diplomas to the students admitted to the AICTE approved program.
23. Each institution shall submit to AICTE, a list of candidates admitted to the approved program(s) after finalizing admission (latest by August 31 of each year) giving names, percentage of marks in qualifying examinations score in written test, group discussion and interview with relative weightage and criteria of admission followed, constitution of admission committee. (Applicable only for institutions running MBA/MCA programs.)
24. The institution shall shift to the permanent accommodation as approved by the Council within two years from the date of approval. The Institution shall not shift to any unapproved location under any circumstances.

Date :  
Place :

Signature  
Chairman/ President  
of Trust / Society

**22 Appendix 3 : Accounted audited statement for the last three years**



2021-2022

**L.R. PRAKASH & CO**  
**CHARTERED ACCOUNTANTS**  
**NO. 138/A, 1st FLOOR, RAMAVILAS ROAD**  
**MYSORE- 570 004**

PHONE: 0821-3511175

DATE: 18-09-2022

### **AUDITOR'S REPORT**

We have audited the attached Balance sheet, Income & Expenditure, and Receipts & Payments of MAHAJANA EDUCATION SOCIETY, JAYALAKSHMIPURAM, MYSORE for the Year ended 31-03-2021. These financial statements are the responsibility of the management of the SOCIETY. Our responsibility is to express an opinion on these financial statements based on our audit

We conducted our audit in accordance with auditing standards accepted in India. Those Standards require that, we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining on test basis evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We have obtained all the information and explanations. Which to the best of our knowledge and belief were necessary for the purposes of audit.

The balance Sheet, Income & Expenditure Account and receipt & Payment account dealt with by this report are in agreement with books of accounts.

In our opinion and to the best of our information and according to the explanation given to us the said accounts give a true and fair view of the state of affairs of the Institution.

**FOR L.R. PRAKASH & CO**  
**CHARTERED ACCOUNTANTS**  
*Firm Regn. No. 02733s*

**(G V SRINIVASA)**  
**PARTNER**  
**M.NO 200624**

**UDIN NO : 21200624ATBMVX9852**

**MAHAJANA EDUCATION SOCIETY (R)**

Jayalakshmipuram, Mysuru - 570 012

**NOTES ON ACCOUNTS FOR THE YEAR ENDING 31st MARCH 2022**

1. The income and application is recognized on cash basis and thus there is a change in the method of accounting from the previous years. Accounting policies not referred to specifically otherwise are consistent with generally accepted accounting policies.
2. The organization has not debited any prior period expenditure in the profit and loss account during the year under audit.
3. All the assets are stated on historical cost and depreciation is provided on the written down value.
4. All the investments are stated at cost.
5. During the year a sum equal to ten percent of the fee collected is earmarked towards contingency reserve fund to meet future contingencies including expected shortfall in gross revenue and is included in other funds (Sch. II).
6. Figures of the Previous Year have been regrouped wherever necessary to make them comparable with those of Current Year.



2021-2022

**MAHAJANA EDUCATION SOCIETY®**

Jayalakshmipuram, Mysuru - 570 012

**CONSOLIDATED INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2022**

| PREV. YEAR          | PARTICULARS                          | Sch. No. | AMOUNT       | AMOUNT              |
|---------------------|--------------------------------------|----------|--------------|---------------------|
|                     | <b>I - OPERATING INCOME</b>          |          |              |                     |
| 13,09,82,968        | FEES COLLECTED                       | 1        | 17,88,48,807 |                     |
| 7,07,566            | OTHER RECEIPTS                       | 2        | 6,62,904     |                     |
| 11,97,290           | HOSTEL RECEIPTS                      | 3        | 25,83,790    |                     |
| <b>13,28,87,824</b> |                                      |          |              | <b>18,20,95,501</b> |
|                     | <b>II - REVENUE EXPENSES</b>         |          |              |                     |
| 9,43,03,939         | SALARIES & ALLOWANCES                | 4        | 9,65,69,560  |                     |
| 74,11,157           | ADMINISTRATIVE EXPENSES              | 5        | 84,18,526    |                     |
| 5,74,106            | FEST, CONFERENCE & PROGRAMMES        | 6        | 1,29,402     |                     |
| 1,53,122            | FINANCIAL CHARGES                    | 7        | 65,746       |                     |
| 4,82,094            | PRINTING & STATIONERY                | 8        | 4,44,709     |                     |
| 30,13,880           | RATES, FEES & TAXES                  | 9        | 31,72,158    |                     |
| 58,20,977           | REPAIRS & MAINTENANCE                | 10       | 2,00,18,815  |                     |
| 13,90,153           | STUDENTS WELFARE EXPENSES            | 11       | 12,33,181    |                     |
| 11,67,857           | HOSTEL EXPENSES                      | 12       | 15,55,464    |                     |
| 1,08,50,420         | FEES REMITTED TO UOM                 | 13       | 59,05,450    |                     |
| -                   | CONTINGENCY RESERVE FUND             |          | 1,78,84,880  |                     |
|                     |                                      |          |              | <b>15,53,97,891</b> |
| 1,67,17,857         | DEPRECIATION                         | XII      | 2,51,28,312  |                     |
| (16,13,639)         | LESS : DEPN. ON GRANT AMOUNT         |          | (9,56,001)   |                     |
|                     |                                      |          |              | <b>2,41,72,311</b>  |
| <b>(73,84,098)</b>  | <b>III - GROSS SURPLUS/(DEFICIT)</b> |          |              | <b>25,25,298</b>    |
|                     | <b>IV - NON OPERATING INCOME</b>     |          |              |                     |
| 77,32,104           | INTEREST INCOME                      | 14       | 67,90,656    |                     |
| 11,84,508           | RENTAL INCOME                        | 15       | 12,95,257    |                     |
|                     |                                      |          |              | <b>80,85,913</b>    |
| <b>15,32,514</b>    | <b>V - NET SURPLUS/(DEFICIT)</b>     |          |              | <b>1,06,11,211</b>  |

For L.R. Prakash & Co.  
Chartered Accountants  
G.V. Srinivasa  
Partner  
M.NO 200624  
Firm Regn. No. 002733S

(T. Muralidhar Bhagavat) (Dr. T. Vijayalakshmi Muralidhar) (N. Vijaya Kumar)  
President Hon. Secretary Treasurer

ವಾಷೀಕ ವರದಿ

# MAHAJANA EDUCATION SOCIETY®

JAYALAKSHMIPURAM, MYSORE

## CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2022

Page 1

| RECEIPTS                     | AMOUNT       |
|------------------------------|--------------|
| TO OPENING BALANCE:          |              |
| " CASH IN HAND               | 1,40,935     |
| " BANK BALANCE               | 3,30,49,296  |
| " UGC GRANT ACCOUNT          | 2,80,847     |
| " INSTITUTION BANK BALANCE   | 1,13,68,391  |
|                              |              |
| REVENUE INCOME :             |              |
| " FEES COLLECTED             | 17,88,48,807 |
| " OTHER RECEIPTS             | 6,62,904     |
| " INTEREST INCOME            | 67,90,656    |
| " RENTAL INCOME              | 12,95,257    |
| " HOSTEL RECEIPTS            | 25,83,790    |
|                              |              |
| OTHER RECEIPTS               |              |
| " SECURITY DEPOSITS          | 11,34,000    |
| " FIXED DEPOSIT ENCASHED     | 8,75,80,173  |
| " OTHER ADVANCES RECOVERED   | 1,47,09,436  |
| " STAFF LOAN RECOVERED       | 3,60,596     |
| " SUNDRY DEBTORS             | 87,89,546    |
| " BUILDING FUND              | 10,36,467    |
| " PROVISIONS DURING THE YEAR | 8,91,69,741  |
| " SUNDRY CREDITORS           | 1,59,84,104  |
| " ENDOWMENT DEPOSITS         | 1,00,000     |
| Total C/F Rs.                | 45,38,84,946 |

**2021-2022****MAHAJANA EDUCATION SOCIETY®**

JAYALAKSHMIPURAM, MYSORE

**CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2022**

Page 1

| PAYMENTS                        | AMOUNT              |
|---------------------------------|---------------------|
| <b>BY REVENUE EXPENDITURE:</b>  |                     |
| " SALARIES & ALLOWANCES         | 9,65,69,560         |
| " ADMINISTRATIVE EXPENSES       | 84,18,526           |
| " FEST, CONFERENCE & PROGRAMMES | 1,29,402            |
| " FINANCIAL CHARGES             | 65,746              |
| " PRINTING & STATIONERY         | 4,44,709            |
| " RATES, FEES & TAXES           | 31,72,158           |
| " REPAIRS & MAINTENANCE         | 2,00,18,815         |
| " STUDENTS WELFARE EXPENSES     | 12,33,181           |
| " HOSTEL EXPENSES               | 15,55,464           |
| " FEES REMITTED TO UOM          | 59,05,450           |
| " CONTINGENCY RESERVE FUND      | 1,78,84,880         |
|                                 |                     |
| <b>CAPITAL EXPENDITURE:</b>     |                     |
| " COMPUTER AND SOFTWARE         | 67,03,124           |
| " C C T V                       | 46,780              |
| " FURNITURES & FIXTURES         | 2,16,889            |
| " GENERATOR & UPS               | 3,19,968            |
| " LIBRARY BOOKS                 | 63,684              |
| " OFFICE EQUIPMENT              | 2,64,213            |
| " ELECTRONIC EQUIPMENTS         | 6,66,681            |
| " LAB EQUIPMENTS                | 10,00,000           |
| <b>Total C/F Rs.</b>            | <b>16,46,79,230</b> |



JAYALAKSHMIPURAM, MYSORE

**CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2022**

Page 2

| <b>RECEIPTS</b>               | <b>AMOUNT</b>       |
|-------------------------------|---------------------|
| <b>B/F Rs.</b>                | <b>45,38,84,946</b> |
| " TDS BY OTHERS               | 6,43,940            |
| " PJPC RECEIPTS               | 6,14,296            |
| " EARMARKED DONATION          | 6,67,800            |
| " OTHERS FUNDS                | 44,26,337           |
| " MES FGC ADVANCE             | 4,96,92,873         |
| " MES PGC ADVANCE             | 3,18,17,892         |
| " MAHAJANA PUBLIC SCHOOL CBSE | 88,52,162           |
| " CONTINGENCY RESERVE FUND    | 1,78,84,880         |
| " INSTITUTION RECEIPTS        | 2,16,35,881         |
| " UGC RECEIPTS                | 17,56,058           |
| " COMPUTER EQUIPMENT          | 2,23,012            |
| " LIBRARY BOOKS               | 63,684              |
| " ELECTRONIC EQUIPMENT        | 59,000              |
| " CAPITAL                     | 6,84,549            |
|                               |                     |
|                               |                     |
|                               |                     |
|                               |                     |
|                               |                     |
|                               |                     |
|                               |                     |
|                               |                     |
|                               |                     |
|                               |                     |
| <b>TOTAL      Rs.</b>         | <b>59,29,07,309</b> |

**For L.R. Prakash & Co.  
Chartered Accountants  
G.V. Srinivasa  
Partner**

M.NO 200624

Firm Regn. No. 002733S

(T. Muralidhar Bhagavat) (Dr. T. Vijayalakshmi Muralidhar) (N. Vijaya Kumar)  
President Hon. Secretary Treasurer

**Hon. Secretary**

**Treasurer**

2021-2022

**MAHAJANA EDUCATION SOCIETY®**  
JAYALAKSHMIPURAM, MYSORE

**CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2022**

Page 2

| PAYMENTS                        | AMOUNT       |
|---------------------------------|--------------|
| B/F Rs.                         | 16,46,79,230 |
| OTHER PAYMENTS                  |              |
| " STAFF LOAN PAID               | 3,56,000     |
| " FIXED DEPOSIT MADE            | 11,89,95,835 |
| " OTHER ADVANCES                | 90,06,387    |
| " TDS BY OTHERS                 | 8,62,788     |
| " SUNDRY DEBTORS                | 96,28,615    |
| " PROVISIONS PAID               | 9,89,75,616  |
| " SUNDRY CREDITORS              | 1,60,88,839  |
| " SECURITY DEPOSIT PAID         | 2,42,561     |
| " ENDOWMENT DEPOSIT             | 8,81,185     |
| " UGC GRANT PAYMENTS            | 20,04,681    |
| " INSTITUTION PAYMENTS          | 2,12,83,645  |
| " OTHER FUNDS                   | 33,39,899    |
| " CAPITAL                       | 1,10,000     |
| " P.G CENTRE ACCOUNT            | 3,18,17,892  |
| " MAHAJANA PUBLIC SCHOOL - CBSE | 87,02,708    |
| " SBRR FGC & TOURISM ADVANCE    | 4,98,42,325  |
| CLOSING BALANCE:                |              |
| " CASH IN HAND                  | 3,21,110     |
| " CASH AT BANK                  | 4,40,15,141  |
| " UGC GRANT ACCOUNT             | 32,224       |
| " INSTITUTION BANK BALANCE      | 1,17,20,626  |
| TOTAL Rs.                       | 59,29,07,309 |

For L.R. Prakash & Co.  
Chartered Accountants  
G.V. Srinivasa  
Partner

M.NO 200624  
Firm Regn. No. 002733S

(T. Muralidhar Bhagavat) (Dr. T. Vijayalakshmi Muralidhar) (N. Vijaya Kumar)  
President Hon. Secretary Treasurer



**MAHAJANA EDUCATION SOCIETY®**  
JAYALAKSHMIPURAM, MYSORE

**SCHEDULE TO INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED 31-03-2022**

|                                |                     |
|--------------------------------|---------------------|
| <b>FEES COLLECTED</b>          | <b>SCH 1</b>        |
| COURSE FEE / CERTIFICATE FEES  | 16,25,94,149        |
| OTHER FEES                     | 1,51,11,133         |
| SALE OF APPLICATION/PROSPECTUS | 15,000              |
| EXAMINATION RECEIPTS           | 2,11,924            |
| EDUCOMP RECEIPTS               | 86,366              |
| SPORTS FEE                     | 79,774              |
| ECA/CCA                        | 7,50,461            |
| <b>TOTAL Rs.</b>               | <b>17,88,48,807</b> |
| <b>OTHER RECEIPTS</b>          | <b>SCH 2</b>        |
| MISC RECEIPTS                  | 242,134             |
| OTHER RECEIPTS                 | 357,770             |
| DONATION RECEIVED              | 63,000              |
| <b>TOTAL Rs.</b>               | <b>6,62,904</b>     |
| <b>HOSTEL RECEIPTS</b>         | <b>SCH 3</b>        |
| LADIES HOSTEL RECEIPTS         | 14,53,290           |
| BOY'S HOSTEL RECEIPTS          | 11,30,500           |
| <b>TOTAL Rs.</b>               | <b>25,83,790</b>    |
| <b>SALARIES &amp; WAGES</b>    | <b>SCH 04</b>       |
| ALLOWANCE- PAID                | 99,97,139           |
| CONTRACT LABOUR CHARGES        | 21,39,349           |
| EDLI(PFA/C)                    | 1,96,474            |
| ESI PAYMENT                    | 10,51,666           |
| ESTABLISHMENT                  | 7,21,50,267         |
| EX-GRATIA                      | 1,39,667            |
| GROUP GRATUITY PAID            | 28,45,733           |
| GROUP INSURANCE                | 49,793              |
| GUEST FACULTY REMUNERATION     | 18,68,120           |
| HONORARIUM                     | 9,900               |
| PENSION PAID                   | 4,000               |
| PF CONTRIBUTION                | 54,28,772           |
| STAFF WELFARE EXP              | 2,24,827            |
| GRATUITY PAID                  | 4,63,853            |
| <b>TOTAL Rs.</b>               | <b>9,65,69,560</b>  |

**MAHAJANA EDUCATION SOCIETY®**  
JAYALAKSHMIPURAM, MYSORE

**CONSOLIDATED BALANCE SHEET AS AT 31-03-2022**

| PREV. YEAR   | LIABILITES                   | SCH. NO. | AMOUNT              |
|--------------|------------------------------|----------|---------------------|
| 22,79,01,684 | CAPITAL FUND:                | I        | 23,77,70,509        |
| 3,37,27,816  | OTHER FUNDS                  | II       | 5,46,79,865         |
|              |                              |          |                     |
|              | <b>CURRENT LIABILITES:</b>   |          |                     |
| 25,85,758    | LOANS, ADVANCES & DEPOSITS   | III      | 28,92,058           |
| 2,12,74,571  | PROVISIONS                   | IV       | 1,15,35,766         |
| 4,10,305     | SUNDRY CREDITORS             | V        | 2,11,183            |
| 28,59,00,134 | <b>Total Rs.</b>             |          | <b>30,70,89,381</b> |
|              |                              |          |                     |
| PREV. YEAR   | ASSETS                       | SCH.NO   | AMOUNT              |
| 4,48,39,469  | CASH IN HAND & AT BANKS      | VI       | 5,60,89,101         |
| 68,49,568    | SECURITY DEPOSITS            | VII      | 59,59,629           |
| 11,09,47,839 | FIXED DEPOSITS & INVESTMENTS | VIII     | 14,23,62,002        |
| 15,29,587    | ENDOWMENT DEPOSITS           | IX       | 23,10,772           |
| 1,09,78,349  | LOANS & ADVANCES             | X        | 55,85,830           |
| 2,81,884     | SUNDRY DEBTORS               | XI       | 9,65,826            |
| 11,04,73,437 | FIXED ASSETS                 | XII      | 9,38,16,219         |
| 28,59,00,134 | <b>Total Rs.</b>             |          | <b>30,70,89,381</b> |

For L.R. Prakash & Co.  
Chartered Accountants  
G.V. Srinivasa  
Partner

(T. Muralidhar Bhagavat) (Dr. T. Vijayalakshmi Muralidhar) (N. Vijaya Kumar)  
President Hon. Secretary Treasurer

M.NO 200624  
Firm Regn. No. 002733S



2020-2021

**L.R. PRAKASH & CO**  
CHARTERED ACCOUNTANTS  
NO. 138/A, 1st FLOOR, RAMAVILAS ROAD  
MYSORE- 570 004

PHONE: 0821-3511175

DATE: 29-10-2021

### AUDITOR'S REPORT

We have audited the attached Balance sheet, Income & Expenditure, and Receipts & Payments of MAHAJANA EDUCATION SOCIETY, JAYALAKSHMIPURAM, MYSORE for the Year ended 31-03-2021. These financial statements are the responsibility of the management of the SOCIETY. Our responsibility is to express an opinion on these financial statements based on our audit

We conducted our audit in accordance with auditing standards accepted in India. Those Standards require that, we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining on test basis evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We have obtained all the information and explanations. Which to the best of our knowledge and belief were necessary for the purposes of audit.

The balance Sheet, Income & Expenditure Account and Receipt & Payment account dealt with by this report are in agreement with books of accounts. In our opinion and to the best of our information and according to the explanation given to us the said accounts give a true and fair view of the state of affairs of the Institution.

FOR L.R. PRAKASH & CO  
CHARTERED ACCOUNTANTS  
Firm Regn. No. 02733s

(G V SRINIVASA)  
PARTNER  
M.NO 200624



| SBRR MAHAJANA FIRST GRADE COLLEGE<br>(AUTONOMOUS) (UG & PG)<br>JAYALAKSHMIPURAM, MYSORE<br>BALANCE SHEET AS AT 31-03-2021 |   |        |                 |
|---|---|--------|-----------------|
| PREV. YEAR  | LIABILITES  | SCH NO | AMOUNT          |
| 12,66,23,573.00   | CAPITAL FUND:                                     | I      | 13,65,87,408.72 |
| 6,05,945.00   | OTHER FUNDS                                       | II     | 4,69,184.93     |
| 55,000.00   | CURRENT LIABILITES:<br>LOANS, ADVANCES & DEPOSITS | III    | -               |
| 20,03,832.00  | OUTSTANDING EXPENSES:<br>PROVISIONS               | IV     | 1,06,96,006.00  |
| 9,78,011.00   | SUNDRY CREDITORS                                  | V      | 2,87,637.00     |
| 13,02,66,361.00   |   |        | 14,80,40,237.00 |
| PREV. YEAR  | ASSETS  | SCH.NO | AMOUNT          |
| 86,14,252.55  | CASH IN HAND & AT BANKS                           | VI     | 2,20,14,511.55  |
| 18,300.00   | SECURITY DEPOSITS                                 | VII    | 18,300.00       |
| 2,48,67,598.99  | FIXED DEPOSITS & INVESTMENTS                      | VIII   | 77,21,058.00    |
| 43,21,817.51  | LOANS & ADVANCES                                  | IX     | 64,41,780.80    |
| 2,68,37,063.00  | FIXED ASSETS                                      | X      | 2,44,32,314.00  |
| 4,00,649.00   | SUNDRY DEBTORS                                    | XI     | 84,500.00       |
| 6,52,06,679.66  | BRANCH/DIVISION                                   | XII    | 8,73,27,772.59  |
| 13,02,66,361.00   |   |        | 14,80,40,237.00 |

T. Vijayabharathi for L.R. PRAKASH & Co.,  
Chartered Accountants

Honorary Secretary  
MAHAJANA EDUCATION SOCIETY  
Jayalakshmipuram  
Mysore - 570 012

TREASURER  
MAHAJANA EDUCATION SOCIETY  
Jayalakshmipuram  
Mysore - 570 012



(V. SRINIVASA)  
PARTNER  
M No. 200624  
F Reg No. 002733S

PRESIDENT  
MAHAJANA EDUCATION SOCIETY  
Jayalakshmipuram  
Mysore 570 012



| SBRR MAHAJANA FIRST GRADE COLLEGE                             |                                   |        |                 |
|---|-----------------------------------|--------|-----------------|
| (AUTONOMOUS) (UG & PG)  |                                   |        |                 |
| JAYALAKSHMIPURAM, MYSORE                                      |                                   |        |                 |
| INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDING 31-03-2021 |                                   |        |                 |
| EXPENDITURE   |                                   |        |                 |
| PREV. YEAR  | REVENUE EXPENDITURE:              | Sch No | AMOUNT          |
| 1,77,69,711.00  | ADMINISTRATIVE EXPENSES           | 1      | 90,67,585.03    |
| 21,29,991.00  | FEST, CONFERENCE & PROGRAMME      | 2      | 5,74,106.00     |
| 99,088.00   | FINANCIAL CHARGES                 | 3      | 1,28,737.25     |
| 9,23,757.00   | PRINTING & STATIONERY             | 4      | 3,10,365.00     |
| 43,77,897.00  | RATES, TAXES & FEES               | 5      | 16,76,477.00    |
| 70,35,785.00  | REPAIRS & MAINTENANCE             | 6      | 29,52,618.00    |
| 8,92,32,148.00  | SALARIES & ALLOWANCES             | 7      | 6,75,22,567.00  |
| 60,72,310.00  | STUDENT WELFARE EXPENSES          | 8      | 13,13,545.00    |
| 1,06,14,589.00  | REMITTANCE TO UOM                 | 9      | 83,08,320.00    |
| 48,67,867.00  | DEPRECIATION                      | X      | 39,70,415.00    |
| -   | EXCESS OF INCOME OVER EXPENDITURE |        | 98,63,835.72    |
| 14,31,23,143.00   |                                   |        | 10,56,88,571.00 |
| PREV. YEAR  | REVENUE INCOME :                  | Sch No | AMOUNT          |
| 13,87,04,338.00   | FEES COLLECTED                    | 11     | 10,55,01,440.00 |
| 8,39,651.00   | OTHER RECEIPTS                    | 12     | 1,61,574.00     |
| 29,35,181.00  | INTEREST INCOME                   | 13     | 25,557.00       |
| 6,43,973.00   | EXCESS OF EXPENDITURE OVER INCOME |        | -               |
| 14,31,23,143.00   |                                   |        | 10,56,88,571.00 |

T. Vijayabaskar, M.A. (Edu)

for L.R. PRAKASH & Co.,  
Chartered Accountants

Honorary Secretary  
MAHAJANA EDUCATION SOCIETY  
Jayalakshmiapuram  
Mysore 570 012



(G.V. SRINIVASA)  
PARTNER  
M.No.: 200624  
F.Rég No.: 002733S

T. Vijayabaskar  
TREASURER  
MAHAJANA EDUCATION SOCIETY  
Jayalakshmiapuram  
Mysore - 570 012

T. Vijayabaskar  
PRESIDENT  
MAHAJANA EDUCATION SOCIETY  
Jayalakshmiapuram  
Mysore 570 012



2019-2020

**L.R. PRAKASH & CO**  
**CHARTERED ACCOUNTANTS**  
 NO. 138/A, I FLOOR, RAMAVILAS ROAD  
 MYSORE- 570 004

PHONE: 0821-2424997

DATE: 27-09-2020

## AUDITOR'S REPORT

We have audited the attached Balance sheet, Income & Expenditure, and Receipts & Payments of MAHAJANA EDUCATION SOCIETY, JAYALAKSHMIPURAM, MYSORE for the Year ended 31-03-2020. These financial statements are the responsibility of the management of the SOCIETY. Our responsibility is to express an opinion on these financial statements based on our audit

We conducted our audit in accordance with auditing standards accepted in India. Those Standards require that, we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining on test basis evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We have obtained all the information and explanations. Which to the best of our knowledge and belief were necessary for the purposes of audit.

The balance Sheet, Income & Expenditure Account and Receipt & Payment account dealt with by this report are in agreement with books of accounts. In our opinion and to the best of our information and according to the explanation given to us the said accounts give a true and fair view of the state of affairs of the Institution.

*Revised*

**FOR L.R. PRAKASH & CO**  
**CHARTERED ACCOUNTANTS**  
 Firm Regn. No. 02733s

**DIRECTOR**  
**SBRR MAHAJANA F.G. COLLEGE**  
 (Autonomous)  
**POST GRADUATE WING**  
**PBM MAHAJANA EDN. CENTRE**  
 KRS Rd., Metagalli, MYS-570016

*T. Vijayabhaskar*  
**Hon. Secretary** (G V SRINIVASA)  
**Mahajana Education Society (R)** PARTNER  
**Jayalakshmipuram** M.NO 200624  
**Mysore - 570 012**



## SBRR MAHAJANA FIRST GRADE COLLEGE

(AUTONOMOUS) (UG &amp; PG)

JAYALAKSHMIPURAM, MYSORE

## RECEIPTS AND PAYMENT ACCOUNTS FOR THE YEAR ENDING 31-03-2020

| RECEIPTS                         | AMOUNT          |    | PAYMENTS                       | AMOUNT*         |
|----------------------------------|-----------------|----|--------------------------------|-----------------|
| <b>REVENUE INCOME :</b>          |                 |    | <b>REVENUE EXPENDITURE :</b>   |                 |
| O FEES COLLECTED                 | 13,87,04,338.00 | BY | SALARIES & ALLOWANCES          | 8,92,32,148.00  |
| " OTHER RECEIPTS                 | 8,39,651.00     | "  | RATES, TAXES & FEES            | 43,77,897.00    |
| " INTEREST INCOME                | 29,35,181.00    | "  | ADMINISTRATIVE EXPENSES        | 1,77,69,711.00  |
|                                  |                 | "  | FEST, CONFERENCE & PROGRAMME   | 21,29,991.00    |
|                                  |                 | "  | FINANCIAL CHARGES              | 99,088.00       |
|                                  |                 | "  | PRINTING & STATIONERY          | 9,23,757.00     |
| <b>OTHER RECEIPTS :</b>          |                 |    | REPAIRS & MAINTENANCE          | 70,35,785.00    |
| " FIXED DEPOSIT WITHDRAWN        | 5,42,84,027.00  | "  | STUDENT WELFARE EXPENSES       | 60,72,310.00    |
| " OTHER ADVANCES RECOVERED       | 1,14,03,333.00  | "  | REMITTANCE TO UOM              | 1,06,14,589.00  |
| " STAFF LOAN RECOVERED           | 3,19,612.00     |    |                                |                 |
| " STUDENT PROJECT ACCOUNT        | 3,14,945.00     |    |                                |                 |
| " SUNDRY CREDITORS               | 3,16,10,482.00  |    | <b>OTHER PAYMENTS :</b>        |                 |
| " PROVISION DURING THE YEAR      | 74,91,152.00    | "  | FIXED DEPOSIT MADE             | 2,54,39,492.00  |
| " SUNDRY DEBTORS                 | 6,18,979.00     | "  | OTHER ADVANCES                 | 1,43,30,677.00  |
| " AUTONOMOUS EXP RECOVERABLE-UOM | 23,96,818.00    | "  | STAFF LOAN                     | 5,11,512.00     |
|                                  |                 | "  | TDS BY OTHERS                  | 1,43,705.00     |
|                                  |                 | "  | PROVISION PAID                 | 75,66,730.00    |
| <b>BRANCH/DIVISION</b>           |                 | "  | SUNDRY CREDITORS               | 3,11,30,917.00  |
| " MES FGC ADVANCE                | 1,82,14,469.00  | "  | SUNDRY DEBTORS                 | 7,94,980.00     |
|                                  |                 | "  | AUTONOMOUS EXP RECOVERABLE-UOM | 15,18,600.00    |
|                                  |                 |    |                                |                 |
|                                  |                 |    | <b>BRANCH/DIVISION</b>         |                 |
|                                  |                 | "  | MES PGC ADVANCE                | 3,13,34,613.00  |
|                                  |                 |    |                                |                 |
|                                  |                 |    | <b>FIXED ASSETS</b>            |                 |
|                                  |                 | "  | COMPUTER EQUIPMENT             | 18,31,578.00    |
|                                  |                 | "  | LIBRARY BOOKS                  | 2,62,483.00     |
|                                  |                 | "  | OFFICE EQUIPMENTS              | 5,69,862.00     |
|                                  |                 | "  | FURNITURE & FIXTURES           | 9,44,050.00     |
|                                  |                 | "  | LAB EQUIPMENTS                 | 86,140.00       |
|                                  |                 | "  | GENERATOR & UPS                | 15,11,675.00    |
|                                  |                 | "  | ELECTRONIC EQUIPMENTS          | 2,42,550.00     |
|                                  |                 | "  | CCTV                           | 3,07,203.00     |
|                                  |                 | "  | ELEVATOR - (LIFT)              | 40,66,629.00    |
|                                  |                 | "  | BUILDING                       | 1,61,544.00     |
|                                  |                 | "  | BUILDING WIP                   | 30,46,889.00    |
|                                  |                 |    |                                |                 |
| <b>OPENING BALANCE</b>           |                 |    | <b>CLOSING BALANCE</b>         |                 |
| " CASH IN HAND                   | 3.00            | "  | CASH IN HAND                   | 13,663.00       |
| " CASH AT BANK                   | 35,38,368.00    | "  | CASH AT BANK                   | 86,00,590.00    |
|                                  |                 |    |                                |                 |
|                                  | 27,26,71,358.00 |    |                                | 27,26,71,358.00 |

President

Mahajana Education Society (R)  
Jayalakshmipuram,  
Mysore-570 012

Honorary Secretary

MAHAJANA EDUCATION SOCIETY  
Jayalakshmipuram  
Mysore - 570 012

TREASURER

MAHAJANA EDUCATION SOCIETY  
Jayalakshmipuram  
Mysore - 570 012

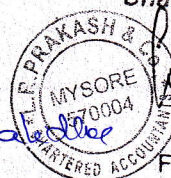
DIRECTOR

SBRR MAHAJANA F.G. COLLEGE  
(Autonomous)  
POST GRADUATE WING  
PBM MAHAJANA EDN. CENTRE  
KRS Rd., Metagalli, MYS-570016

Hon. Secretary

Mahajana Education Society (R)  
Jayalakshmipuram  
Mysore - 570 012

for L.R.PRAKASH & Co.,  
Chartered Accountants

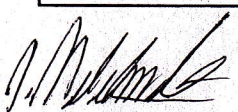


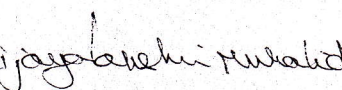
V. SRINIVASA  
PARTNER

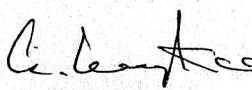
M.No : 200624  
F.Reg.No.: 002733S

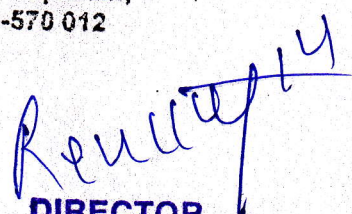


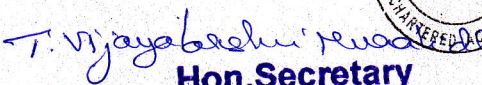
| SBRR MAHAJANA FIRST GRADE COLLEGE                             |                                   |        |                 |
|---|-----------------------------------|--------|-----------------|
| (AUTONOMOUS) (UG & PG)  |                                   |        |                 |
| JAYALAKSHMIPURAM, MYSORE                                      |                                   |        |                 |
| INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDING 31-03-2020 |                                   |        |                 |
| EXPENDITURE   |                                   |        |                 |
| PREV. YEAR  | REVENUE EXPENDITURE:              | Sch No | AMOUNT          |
| 1,02,19,949.49  | ADMINISTRATIVE EXPENSES           | 1      | 1,77,69,711.00  |
| 4,98,658.00   | FEST, CONFERENCE & PROGRAMME      | 2      | 21,29,991.00    |
| 21,397.19   | FINANCIAL CHARGES                 | 3      | 99,088.00       |
| 3,84,155.00   | PRINTING & STATIONERY             | 4      | 9,23,757.00     |
| 8,91,540.00   | RATES, TAXES & FEES               | 5      | 43,77,897.00    |
| 20,96,490.00  | REPAIRS & MAINTENANCE             | 6      | 70,35,785.00    |
| 3,22,45,365.00  | SALARIES & ALLOWANCES             | 7      | 8,92,32,148.00  |
| 33,22,590.00  | STUDENT WELFARE EXPENSES          | 8      | 60,72,310.00    |
| 1,21,53,320.00  | REMITTANCE TO UOM                 | 9      | 1,06,14,589.00  |
| 23,69,873.00  | DEPRECIATION                      | X      | 48,67,867.00    |
| 28,88,710.18  | EXCESS OF INCOME OVER EXPENDITURE |        | -               |
| 6,70,92,047.86  |                                   |        | 14,31,23,143.00 |
| PREV. YEAR  | REVENUE INCOME :                  | Sch No | AMOUNT          |
| 6,63,44,060.00  | FEES COLLECTED                    | 11     | 13,87,04,338.00 |
| 5,48,319.00   | OTHER RECEIPTS                    | 12     | 8,39,651.00     |
| 1,99,668.86   | INTEREST INCOME                   | 13     | 29,35,181.00    |
| -   | EXCESS OF EXPENDITURE OVER INCOME |        | 6,43,973.00     |
| 6,70,92,047.86  |                                   |        | 14,31,23,143.00 |


  
**President**  
 Mahajana Education Society (R)  
 Jayalakshmipuram,  
 Mysore-570 012

  
**Honorary Secretary**  
 MAHAJANA EDUCATION SOCIETY  
 Jayalakshmipuram  
 Mysore - 570 012

  
**TREASURER**  
 MAHAJANA EDUCATION SOCIETY  
 Jayalakshmipuram  
 Mysore - 570 012

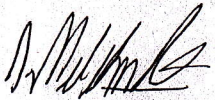
  
**DIRECTOR**  
 SBRR MAHAJANA F.G. COLLEGE  
 (Autonomous)  
 POST GRADUATE WING  
 PBM MAHAJANA EDN. CENTRE  
 KRS Rd., Metagalli, MYS-570016

  
**Hon. Secretary**  
 Mahajana Education Society (R)  
 Jayalakshmipuram  
 Mysore - 570 012

for **L.R.PRAKASH & Co.,**  
 Chartered Accountants  
  
**G.V. SRINIVASA**  
 PARTNER  
 M.No : 200624  
 F Reg.No.: 002733S

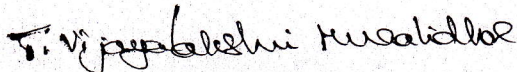


| SBRR MAHAJANA FIRST GRADE COLLEGE |                              |        |                 |
|-----------------------------------|------------------------------|--------|-----------------|
| (AUTONOMOUS) (UG & PG)            |                              |        |                 |
| JAYALAKSHMIPURAM, MYSORE          |                              |        |                 |
| BALANCE SHEET AS AT 31-03-2020    |                              |        |                 |
| PREV. YEAR                        | LIABILITES                   | SCH NO | AMOUNT          |
| 12,60,82,963.08                   | CAPITAL FUND:                | I      | 12,66,23,573.00 |
| 2,91,000.00                       | OTHER FUNDS                  | II     | 6,05,945.00     |
|                                   | CURRENT LIABILITES:          |        |                 |
| 55,000.00                         | LOANS, ADVANCES & DEPOSITS   | III    | 55,000.00       |
|                                   | OUTSTANDING EXPENSES:        |        |                 |
| 20,79,410.00                      | PROVISIONS                   | IV     | 20,03,832.00    |
| 4,13,429.00                       | SUNDRY CREDITORS             | V      | 9,78,011.00     |
| 12,89,21,802.08                   |                              |        | 13,02,66,361.00 |
| PREV. YEAR                        | ASSETS                       | SCH.NO | AMOUNT          |
| 17,80,013.09                      | CASH IN HAND & AT BANKS      | VI     | 86,14,252.55    |
| 18,300.00                         | SECURITY DEPOSITS            | VII    | 18,300.00       |
| -                                 | FIXED DEPOSITS & INVESTMENTS | VIII   | 2,48,67,598.99  |
| 12,03,994.80                      | LOANS & ADVANCES             | IX     | 43,21,817.51    |
| 1,86,74,327.00                    | FIXED ASSETS                 | X      | 2,68,37,063.00  |
| -                                 | SUNDRY DEBTORS               | XI     | 4,00,649.00     |
| 10,72,45,167.19                   | BRANCH/DIVISION              | XII    | 6,52,06,679.95  |
| 12,89,21,802.08                   |                              |        | 13,02,66,361.00 |



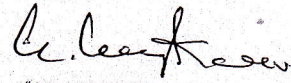
**President**

Mahajana Education Society (R)  
Jayalakehmipuram,  
Mysore-570 012



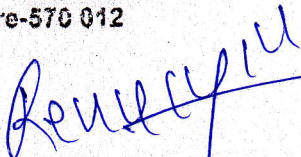
**Honorary Secretary**

MAHAJANA EDUCATION SOCIETY  
Jayalakshmipuram  
Mysore - 570 012



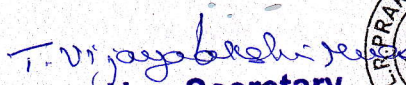
**TREASURER**

MAHAJANA EDUCATION SOCIETY  
Jayalakshmipuram  
Mysore - 570 012



**DIRECTOR**

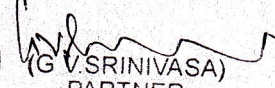
SBRR MAHAJANA F.G. COLLEGE  
(Autonomous)  
POST GRADUATE WING  
PBM MAHAJANA EDN. CENTRE  
KRS Rd., Metagalli, MYS-570016



**Hon. Secretary**  
Mahajana Education Society (R)  
Jayalakshmipuram  
Mysore - 570 012



for **L.R. PRAKASH & Co.,**  
Chartered Accountants

  
**G.V. SRINIVASA)**  
PARTNER  
M.No :200624  
F Reg.No.:002733S