

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

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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. T MURALIDHAR BHAGAVAT Jayalakshmipuram , Mysore, Karnataka	President	9880244444	tmbmgm@gmail.com
SRI. VIJAYKUMAR N Jayalakshmipuram , Mysore, Karnataka	Treasurer	9008314826	mes@mahajana.edu.in
Sri. ASHWATH NARAYAN G.R Big Bazaar Street, Chamarajnagar, Karnataka	Member	9448031971	grashwathnarayanchnagar@gmail.com
Dr P R NAGASRINIVASA V.V.Mohalla , Mysore, Karnataka	Member	9483299432	prnagasrinivasa1942@gmail.com
Dr T VIJAYA LAKSHMI MURALIDHAR Jayalakshmipuram , Mysore, Karnataka	Secretary	9880294444	tvm.mgm@gmail.com
SRI RAVIKUMAR B S V.V.Mohalla , Mysore, Karnataka	Vice President	9900233125	ravikumar.bs@gmail.com
SRI. SRINATH K B Jayalakshmipuram , Mysore, Karnataka	Member	9880204444	mflsrinath@gmail.com

Name	Designation	Mobile Number	Email
SRI. SANJAY SK Jayalakshmipuram , Mysore, Karnataka	Member	9945159216	casksanjay@gmail.com
SRI. R RAJESH Jayalakshmipuram , Mysore, Karnataka	Member	9448229994	rajesh@bsra.in
SRI. HARISH B Jayalakshmipuram , Mysore, Karnataka	Member	9845561999	harish@ventronics.net
SRI. PRATAP R N Jayalakshmipuram , Mysore, Karnataka	Member	9845124105	prattehalli@gmail.com
SRI. K B RAMA PRAKASH Jayalakshmipuram , Mysore, Karnataka	Member	8105107948	kattapurramaprakash9@gmail.com
DR. RAJESWAR S N Yadavgi , Mysore, Karnataka	Member	9845110220	rajeshwarsn@gmail.com
SRI. T V K KIRAN, Kuvempunagar, Mysore, Karnataka.	Member	9845284420	tvkkiran7594@gmail.com
SRI Yashwant Kumar S Bilikere Hunsur Taluk, Mysore	Member	9964450175	yashwanth125@gmail.com
SMT Thejaswi Chethan	Member	9880254444	cthejs@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	principal.fgc@mahajana.edu.in 9611075944
2	All Heads of the Departments			
3	Teachers of the College	1. Dr. Sreedhara H	Assistant Professor Dept. of History	sreedharah.fgc@mahajana.edu.in 990104170
		2. Dr. Sumathi M P	Assoc. Prof. & HoD, Dept. of Mathematics	sumathimp.fgc@mahajana.edu.in 9880810618
		3. Smt. Rachana C R	Assoc. Prof. & HoD, DoS in Computer Science and MCA	rachanacr@gmail.com 8095645644
		4. Dr. Sangamitra Gowtham M J	Associate Professor DoS in MBA	sangam.goutham@gmail.com 9731165052

Sl. No.	Category	Name	Designation	Address for Communication
4	Four Expert/Academicians from outside the college	Dr. T K Umesh	Former Prof. of Physics University of Mysore Mysuru	umeshtk@gmail.com 9448022966
		Dr. C Naganna	Former Prof. of English University of Mysore Mysuru	cnaganna25@gmail.com 9980781602
		Dr. D S Guru	DoS in Computer Science University of Mysore Mysuru	dsg@compsci.uni-mysore.ac.in 9620228005.
		Dr. Arun Chand Rayaroth	Head, Quality & Research Zeus Biotech Pvt. Ltd. Mysuru	arunchand@zeusindia.net 8884922855
5	Nominees from the University	Prof. K R Vasuki	DoS in Mathematics, Manasagangotri Mysuru	vasuki_kr@hotmail.com 9916450314
		Dr. M Mahesh	DoS in Economics, Manasagangotri Mysuru	mahesh@economics.uni-mysore.ac.in 9480438399
		Dr. Biradar B S	Dept. of Studies in Statistics, Manasagangotri	biradarbs@statistics.uni-mysore.ac.in biradarbs1@gmail.com 9449682615
6	The Controller of Examination of the Autonomous College	Smt. Shruthy Poonacha	Controller of Examinations	shruthypoonacha.fgc@mahajana.edu.in 9886367273

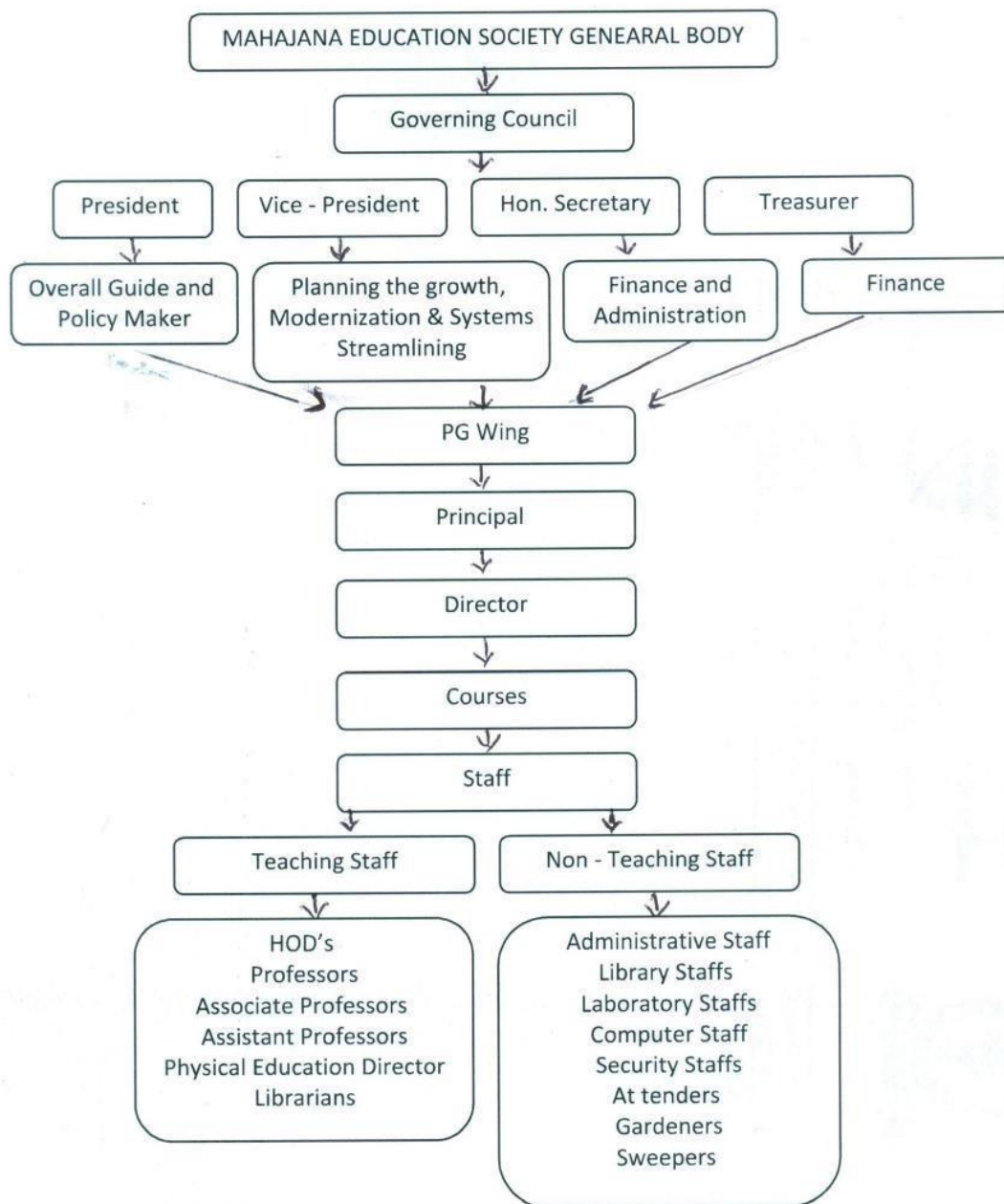
7	A Faculty Member nominated by the Principal	Ms. Geetha D	HoD Dept. of English	geethad.fgc@mahajana.edu.in 9945653221
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- **Frequency of the Board Meeting and Academic Advisory Body**
 - Twice a year


- **Organisational Chart**


SBBR Mahajana F.G.College. Post graduate Wing

ORGANIZATIONAL CHART


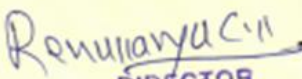


- Student Grievance Redressal Committee (SGRC)


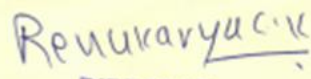
		Mahajana Education Society (Regd.) SBRR Mahajana First Grade College (Autonomous) Affiliated to University of Mysore Re-Accredited by NAAC with 'A' Grade, College with Potential for Excellence Post Graduate Wing Pooja Bhagavat Memorial Mahajana Education Centre KRS Road, Metagalli, Mysore - 570 016, Karnataka		
		<div> <div> Dr. B R Jayakumari, M.A., M.Phil., Ph.D. Principal </div> <div> Dr. C.K. Renukarya Director, Post Graduate Wing </div> </div>		
Ref: <u>PGC/1061/2024-25</u>		Date: <u>6-12-24</u>		
<u>STUDENT GRIEVANCE REDRESSAL COMMITTEE (SGRC)</u>				
The following is the composition of ' STUDENT GRIEVANCE REDRESSAL COMMITTEE (SGRC) ' of SBRR Mahajana First Grade College, PG Wing, Pooja Bhagavat Memorial Mahajana Education Centre, K.R.S. Road, Metagalli, Mysore-16, with effect from 05th December 2024 until further orders in this regard.				
Sl. No.	Name	Designation	Position in the Committee	Contact No.
1	Dr. C K Renukarya	Director, PG wing of SBRR Mahajana FG college, Mysuru	Convener	9845460047
2	Mrs. Rachana C.R.	Associate Professor and HoD, Computer Science Department, SBRR Mahajana FG college, PG wing, Mysuru.	Member	8095645644
3	Dr. Savitha	Assistant Professor, MBA Department, PG wing of SBRR Mahajana FG college, Mysuru	Member	9739470133
4	Dr. Sangamitra Goutham M. J.	Assistant Professor, MBA Department, SBRR Mahajana FG college, PG Wing, Mysuru	Member	9731165052
5	Ms. Lakshmishree M.S.	Student, MCA Department, PG wing of SBRR Mahajana FG college, Mysuru	Member- Student representative	6364136768


DR. C.K. RENUKARYA
 DIRECTOR
 SBRR MAHAJANA F.G. COLLEGE
 (Autonomous)
 POST GRADUATE WING
 Pooja Bhagavat Memorial Mahajana Education Centre


● 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		
		<div> <div> Dr. B R Jayakumari, M.A., M.Phil., Ph.D. Principal </div> <div> Dr. C.K. Renukary Director, Post Graduate Wing </div> </div>		
Ref: <i>PGC/1060/2024-25</i>		Date: <i>6.12.2024</i>		
<u>ANTI-RAGGING COMMITTEE</u>				
The following is the composition of ' Anti-Ragging Committee ' of SBRR Mahajana First Grade College, PG Wing, K.R.S. Road, Metagalli, Mysore-16, with effect from 05th December 2024 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 Shabharish V.R,	Sub-Inspector of Police, 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. Suresh A G. (Parent of Nithya G S.)	Bank Employee #201, 7 th Main 8 th Cross, Hebbal 1 st Stage, Mysore.	Member-Parent representative	9611064640
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	Ms.Nithya G S	Student, MCA Department, SBRR Mahajana FG college, PG Wing, Mysuru	Member -Student representative	9481833844
9	Mr. Shreyas A	Student, MBA Department, SBRR Mahajana FG college, PG Wing, Mysuru	Member -Student representative	7760836819
 DIRECTOR SBRR MAHAJANA F.G. COLLEGE (Autonomous) POST GRADUATE WING Pooja Bhagavat Memorial Mahajana Education Centre				

● Anti-Ragging Squad

 <p style="text-align: center;"> 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 </p>				
Dr. B R Jayakumari, M.A., M.Phil., Ph.D. Principal			Dr. C.K. Renukaryu Director, Post Graduate Wing	
Ref: <u>pgc/1063/2024-25</u> ANTI - RAGGING SQUAD Date: <u>6-12-24</u>				
The following is the composition of 'Anti-Ragging Squad' of SBRR Mahajana First Grade College, PG Wing, K.R.S. Road, Metagalli, Mysore-16, with effect from 05th December 2024 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	8095645644
2	Mrs. Yashaswini J.	Assistant Professor, Computer Science Department, SBRR Mahajana FG college, PG Wing, Mysuru	Member	9538779281
3	Dr. Chandra Shekar	Assistant Professor, MBA Department, SBRR Mahajana FG college, PG Wing, Mysuru	Member	8884293888
4	Mr. Srinivas Thimmaiah	Assistant Professor, MBA Department, SBRR Mahajana FG college, PG Wing, Mysuru	Member	9986181612
5	Mr. Mallesh H.S.	Student, MCA Department, SBRR Mahajana FG college, PG Wing, Mysuru	Member- Student representative	6362227853
 DIRECTOR SBRR MAHAJANA F.G. COLLEGE (Autonomous) POST GRADUATE WING PBM MAHAJANA EDN. CENTRE KRS Rd., Metagalli, MYS-570016				

● Internal Complaint Committee (ICC)



Mahajana Education Society (Regd.)
SBRR Mahajana First Grade College (Autonomous)
 Affiliated to University of Mysore
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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/1065/2024-D Date: 6-12-24

Internal Complaints Committee - (ICC)


The following is the composition of 'Internal Complaints Committee (ICC)' of SBRR Mahajana First Grade College, PG Wing, K.R.S. Road, Metagalli, Mysore-16, with effect from **05th December 2024** until further orders in this regard.

Sl.No.	Name	Designation	Position in the Committee	Contact No.
1	Dr. Preethi M.	Associate Professor, MBA Department, PG wing of SBRR Mahajana FG college, Mysuru	Chair Person	9901960699
2	Sri. Parashuram M. L.	Director, Odanadi Seva Samsthe, Mysuru	Member - NGO representative	0821-2402155, 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. Milana K.	Student, MCA Department, SBRR Mahajana FG college, PG wing, Mysuru	Member - Student representative	7349043655
8	Mr. Prapanch R.	Student, MCA Department, SBRR Mahajana FG college, PG wing, Mysuru	Member - Student representative	9480953373
9	Mr. Darshan S	Student, MBA Department, SBRR Mahajana FG college, PG wing, Mysuru	Member - Student representative	8088226535

Renukary
Renukary
 SBRR MAHAJANA F.G. COLLEGE
 (Autonomous)

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

- Committee for SC/ST



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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/1064/2024-25* Date: *6-12-24*

SC/ST Committee

The following is the composition of '**SC/ST Committee**' of SBRR Mahajana First Grade College, PG Wing, K.R.S. Road, Metagalli, Mysore-16, with effect from **05th December 2024** until further orders in this regard.

Sl. No.	Name of the Faculty	Designation	Position in the Committee	Contact No.
1.	Mr. Srinivas Thimmaiah.	Assistant Professor, MBA Department, SBRR Mahajana FG college, PG Wing, Mysuru	Member	9986181612
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

Renukarya
DIRECTOR
SBRR MAHAJANA F.G. COLLEGE

- Internal Quality Assurance Cell

Mahajana Education Society (R)
Education to Excel
SBRR Mahajana First Grade College (Autonomous)
Jayalakshimpuram, 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 HoD, History	Dean, Academics
03	Smt. Shruthy Poonacha HoD, B.Sc. C S & Controller of Examinations	Faculty representation from UG and PG
04	Smt. Rachana C R HoD, M.Sc. CS & MCA	
05	Dr. Mahadesh Prasad A J Prof. DoS in Biochemistry, School of Life Sciences	
06	Smt. Radhika Rani Asst. Prof. B.Sc. CS	
07	Ms. Smitha Grace DoS in Biotech, School of Life Sciences & PG Co-ordinator	
08	Sri T. Muralidhar Bhagavat President, MES	Management Member
09	Dr. C K Renukarya Director, PG Centre	Administrator
10	Dr. S R Ramesh CEO, Academic Advisor	Administrator
11	Dr. M Dharma Prasad CEO & Chief Scientist M/s. Prosetta, Bioconformatics Private Ltd.	Industrialist
12	Kum. Sharada, III B.Com.	Student
13	Mr. Varun, M/s. Pairu Organics & Naturals	Alumni
14	Ms. Geetha D HoD, English	Co-ordinator
15	Smt. Poornima S PRO	Communication Co-ordinator


PRINCIPAL

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

- Student Counselor Committee



Mahajana Education Society (Regd.)
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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/1062/2024-25 **Counselling Committee** Date: 6-12-24


The following is the composition of '**COUNSELLING 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., **05th December 2024** 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, Social Work Department, PG wing of SBRR Mahajana FG college, Mysuru	Member	8095831765
2	Dr. Indushekara G V	Assistant Professor, Social Work Department, PG wing of SBRR Mahajana FG college, Mysuru	Member	9986966224
3	Ms. Smitha Grace S R	Assistant Professor, Life science Department PG wing of SBRR Mahajana FG college, Mysuru	Member	9945165301
4	Dr. Shashikala S.R.	Associate Professor, MBA Department, PG wing of SBRR Mahajana FG college, Mysuru	Member	9916619321


(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

- **Institution Industry Cell (IIC)**

		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		
		<div> <div> Dr. B R Jayakumari, M.A., M.Phil, Ph.D. Principal </div> <div> Dr. C.K. Renukaryya Director, Post Graduate Wing </div> </div>		
Ref: <i>PGC/1066/2024-25</i>		Date: <i>6-12-24</i>		
<u>Institution Industry Cell - (IIC)</u>				
The following is the composition of 'Institution Industry Cell (IIC)' of SBRR Mahajana First Grade College, PG Wing, K.R.S. Road, Metagalli, Mysore-16, with effect from 05th December 2024 until further orders in this regard.				
Sl.No.	Name	Designation	Position in the Committee	Contact No.
1	Mr. Harish Machia Kodandera	Professor & HOD, MBA Department, SBRR Mahajana FG college, PG Wing, Mysuru	Presiding Officer	9008646243
2	Mrs. Rachana C.R.	Associate Professor and HoD, Computer Science Department, SBRR Mahajana FG college, PG wing, Mysuru.	Member	8095645644
3	Dr. Anisha Kumar	Assistant Professor, Computer Science Department, SBRR Mahajana FG college, PG Wing, Mysuru	Member	9845992829
4	Mr. Roopesh Kumar K	Assistant Professor & Head DoS in Commerce, SBRR Mahajana FG college, PG Wing, Mysuru, Mysuru.	Member	97400273327
<i>Renukaryya</i> DIRECTOR SBRR MAHAJANA F.G. COLLEGE (Autonomous) POST GRADUATE WING PBM MAHAJANA EDN. CENTRE KRS RD., Metagalli, MYS-570016				

- Grievance Redressal Committee (GRC):



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

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

Ref: pqc/1070/2024-25 **GRIEVANCE REDRESSAL COMMITTEE (GRC)** Date: 7-12-24

The following is the composition of '**STUDENT GRIEVANCE REDRESSAL COMMITTEE (SGRC)**' of SBRR Mahajana First Grade College, PG Wing, Pooja Bhagavat Memorial Mahajana Education Centre, K.R.S. Road, Metagalli, Mysore-16, with effect from **05th December 2024** until further orders in this regard.

Sl. No.	Name	Designation	Position in the Committee	Contact No.
1	Dr. C K Renukarya	Director, PG wing of SBRR Mahajana FG college, Mysuru	Convener	9845460047
2	Dr. Leelavathi	Assistant Professor, MBA Department, PG wing of SBRR Mahajana FG college, Mysuru	Member	8867633862
3	Dr. Roopesh Kumar K	Assistant Professor & Head DoS in Commerce, SBRR Mahajana FG college, PG Wing, Mysuru, Mysuru.	Member	97400273327
4	Dr. Anisha Kumar	Assistant Professor, MCA Department, PG wing of SBRR Mahajana FG college, Mysuru	Member	9483468829
5	Ms. Megha Sonu	Student, MCA Department, SBRR Mahajana FG college, PG wing Mysuru	Member - Student representative	8296878960

Renukarya
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

6 Programmes

● Programmes approved by AICTE :

- o Name : Master of Computer Applications
- o Number of seats : 120
- o Duration : 2 years
- o Cut-off marks of admission during the last three years :

Academic Year	Cut-off % for Admission
2024-2025	56.8%
2023-2024	72.30 %
2022-2023	50%

- o Fee :

MCA	I Year (2024 -2025 batch)		II Year (2023 -2024 batch)	
	Gov/UoM	Mgmt	Gov/UoM	Mgmt
Karnataka Students	Rs. 1,25,000/-	Rs.1,50,000/-	Rs. 1,00,000/-	Rs.1,25,000/-

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

Year of Passing	Minimum salary	Maximum salary	No. of Students Placed
2023	Rs.24,000/-	Rs.38000/-	30
2022	Rs.20,000/-	Rs.35,000/-	55
2021	Rs.18,000/-	Rs.35,000/-	22

7 Faculty

- Course/Branch wise list Faculty members : 12
- Permanent Faculty : 12
- Adjunct Faculty : Nil
- Permanent Faculty Student Ratio : 1 : 15
- Number of Faculty employed and left during the last three years :

Year	Faculty	
	Employed	Left
2023-24	12	2
2022-23	9	3
2021-22	9	0

8 Profile of Director / Faculty

- **Profile of the Director**

- Name : Dr.C.K.RENUKARYA
- Date of Birth : 20/04/1942
- Work Experience :
 - Teaching : 55 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, 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 **21 years** of teaching experience. I joined the Institution in **2003**.

QUALIFICATION: M.Tech. (Computer Network Engineering), M.Phil. (Computer Science), M.Sc. (IT), B.E. (Computer Science & Engineering).

- ✓ **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 **21 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.

- Served 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, Programming, Managerial Communication, Analysis and Design of Information Systems, Personality Development and Soft Skills, Professional Ethics and Values, Software Engineering.

CERTIFICATIONS:

- 'Introduction to Cybersecurity' offered by Networking Academy through the Cisco Networking Academy program on 20 Feb 2025.
- 21 days Masterclass on 'Amazon Web Services' at Pantech e Learning Pvt Ltd from 11.10.2023 to 31.10.2023.
- Certificate of Achievement for completing the online course – 'Communication and Interpersonal Skills at Work' from University of Leeds and Institute of Coding on 19th September 2021.

Achievements/Honors/Awards:

- Served as a Reviewer** at the 27th International Symposium on Wireless Personal Multimedia Communications (WPMC2024), "Secure 6G – AI Nexus: Where Technology Meets Humanity", 17-20 November 2024, Sharda University, Greater Noida (NCR-Delhi), India.
- Conferred with **Eminent Engineer Award** by The Institution of Engineers (India), Mysore Local Chapter on 15th September 2023 commemorating 56th Engineers Day, i.e., the 163rd birthday of Sir. M. Visvesvaraya.
- 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.
- iv. **Appointed as expert reviewer** on 14th 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.
 - v. 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**.

PUBLISHED AND PRESENTED a number of PAPERS in National/international Journals and Conferences. Also, attended a number of Faculty Development Programmes, workshops and seminars.

Papers Published – 21, Papers Presented – 10, Faculty Development Programmes- 04, Seminars-04, Workshops – 12, Conferences – 02.

Online programmes attended during 2020 (covid-period) -17.

INVITED AS RESOURCE PERSON/SESSION CHAIR/COMMITTEE MEMBER:

- i. 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 29th May **2017** organized by ECE and TCE Dept, GSSSIETW, Mysuru.
- ii. 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**.
- iii. Invited to deliver a special talk on ‘Cloud Computing: Introduction and Challenges’ at JSS College for Women, Chamaraajanagar, Karnataka, India during March **2017**.
- iv. Served as Member of Scientific Committee of the 4th 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.
- v. Technical Program Committee member of The 11th International Conference on Electronics, Communications and Networks (CECNet 2021), November 18-21, **2021** Online Conference, Beijing, The 12th International Conference on Electronics, Communications and Networks (CECNet 2022), November 4th-7th, **2022** Online Conference, Beijing, The 13th International Conference on Electronics, Communications and Networks (CECNet 2023), November 17- 20, **2023**, Macao, China.

OTHER ACADEMIC INFORMATION:

- i. I have completed one UGC Sponsored Minor Research Project in August 2015.
- ii. Member of Governing body, SBRR Mahajana First Grade College (Autonomous), 2019, 2020, Mysuru.
- iii. On the **Board of Examiners** of DoS in Computer Science, University of Mysore, Mysuru from past 15+ years.
- iv. Appointed as the B.O.E member, Karnataka State Open University, letter dated **30th April 2020**.
- v. 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.
- vi. Served as the **B.o.S Chairman**, Dept. of MCA & M.Sc. Computer Science (Autonomous Board) 2019-20, 2020-21 at Mahajana Post-Graduate Centre.
- vii. Served as the **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 2016-2022.
- viii. Served as a **reviewer** for European Journal of Engineering Education.
- ix. Serving as a **reviewer** of Journal of Emerging Technologies and Innovative Research, An International Open Access Journal & UGC and ISSN Approved, ISSN: 2349-5162.
- x. 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 'Importance of Communication Skills'.
- xi. Published a basic text book on Computer Science for PUC students (along with other faculty members of MCA dept.).
- xii. Developed a course material on "Computer Application" for Karnataka State Open University, M.Sc Bio-Technology.
- xiii. Worked as a **convener** in a number of national/state/regional level seminars and conferences including one UGC sponsored state level Conference.

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- 10 years

Number of Publications: International: 10

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.
- Serving as BOE member and

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 (IJIRCCE), 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 (IJIRCCE), 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.
9. “A Comprehensive study of Software-Defined Wide Area Networks (SD-WAN) and Secure Access Service Edge (SASE) in Modern Networking Environments” Journal of Nonlinear Analysis and Optimization, Vol. 14, Issue. 2, No. 2: 2023, ISSN : 1906-9685
10. “AI and Digital Humanities: Unveiling Historical Insights Using Machine Learning”, Humanities and Social Science Studies-UGC CARE Journal, July – December: 2024 Volume 13, Issue 2, No.24,ISSN 2319-829X, Pg.No.:125-131

Dr ANISHA KUMAR

Designation: Assistant Professor & Training and Placement Officer

Unique ID:1-43709952224

Qualification: MCA, MPhil, PhD

Area of Specialization: SOFTWARE ENGINEERING AND
CYBER SECURITY



Work Experience: Teaching - 20 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: 07 WORKSHOP/SEMINAR :08

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 : In charge Reviewer 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:

- 2023: Appointed as BoS Chairperson in Computer Science , PBMMEC .
- 2023: Appointed as Member of the institution Industry Cell (IIC).
- 2022-2023 : Appointed as BoS Member in Computer Application , PBMMEC.
- 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:

- ☐ Published a paper titled “Managing in Uncertain Times ” in B.N.Bhadhur Institute , May 2008.
- ☐ Published a paper titled “Software Testing tools –winrunner and loadrunner ” in IUP Publication, ICFAI Journal of Computer Science , vol III, june 2009.
- ☐ Published a paper titled “Restoration as a Threat to Commit Cyber Crime “ volume 05, June 2012 at Oriental Journal of Computer Science and Technology.
- ☐ 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
- ☐ Presented and published a paper on “An Insight into the world of DeepFake and Cyber Crime” in the International Conference on “Issues and Challenges in Business Education and Information Technology” on 8th February 2023 at Sri.K.Puttaswamy First Grade College, Mysore. The paper was co-authored by Ms. Ramya.D, 3rd Semester MCA student.
- ☐ Published a paper titled “ Impact Of Social Engineering In A Negative perspective To Commit Cyber Crime” volume 10, issue 12, 2023-12-05 at international Journal Of Emerging Technologies and Innovative Research. JETIR ISSN: 2349-5162, UGC Approved (Journal Number :63975) Impact Factor : 7.75 by Google scholar)

Workshops FDP and Conferences Attended and Organized:

- ☐ 13th March 2010: Attended A One Day State Level seminar on “Digital Image Processing and Pattern Recognition” at Government College, Mandya
- ☐ 17th to 19th June 2010: Attended International Workshop on “Intelligence and Security Informatics” at International School of Information management (ISiM), Mysore

- 4th March 2014: Attended A One Day UGC Sponsored National Level Workshop on “Application of SPSS in Research Data Analysis “at SBRR MAHAJANA FIRST GRADE COLLEGE, Mysore.
- 10th January 2017: Attended Seminar on “Information & Knowledge Management using Big Data Analysis” at St. Philomena’s Autonomous College, Mysore.
- 9th February 2017: Organized A One Day FDP On “Technical Soft Skill” at District Level in St Joseph’s First Grade College, Mysore.
- 27th July 2017: Attended Faculty Knowledge Program at IBS, (ICFAI Business school), Mysore.
- 18th September 2018: Attended A State Level “NAAC Awareness Workshop on Assessment 7 Accreditation under Revised scheme” at Sheshadripuram Degree College, Mysore.
- 14th and 15th June 2019: Attended a Two Day FDP on “Excellence in Effective Teaching” At St Joseph’s First Grade College, Mysore
- 27th to 29th November 2019: Attended a Three day FDP on “research Methodology” at St Joseph’s Women College, Mysore.
- 22nd September 2022: Organized A One day Workshop on “Android App Development” for students of MCA Students and “Angular” for M.Sc. Students.
- 26th September to 2nd October 2022: Attended Seven Days Online FDP on “NAAC-Importance of Documentation”.
- 10th and 11th February 2023: Attended Two Days IEEE 3rd International Conference on “TEMSMET-2023” organized by Vidya Vikas of Engineering, Mysore.
- 17th March 2023: Attended FDP on “ Reorientation Of Faculty Programme “ under UGC Autonomy Grants at PBMMEC.
- 24th November 2023 : Attended a One Day National Level Seminar on “Exploring Research Methodologies in Computer Science : Unraveling the Latest Advances” at SBRR Mahajana First Grade College, Mysuru.
- 16th to 21st January 2024 : Participated in a six day International Faculty Development Programme, “Quality Enhancement to Facilitate Academic Excellence and Well Being” organized by IQAC, Jyothi Nivas College Autonomous, Bengaluru.

Name: Likhitha M M

Current Position: Assistant Professor

Unique ID: 1-43373344224

Qualification: MCA, K-SET

Teaching Experience: 2 year

Courses offered: Mobile Application Development with Android,

Data Communication and Networks, E-Commerce, Software Engineering, Web Technologies.

Publication: 1

Current research interests:

Passionate Researcher in Augmented Reality and AI: My primary research interest lies in exploring the intersection of augmented reality and education, dedicated to developing innovative AR applications that enhance the learning experience and make education more immersive and engaging. From creating interactive simulations to facilitating virtual field trips, aiming to leverage AR to revolutionize the way we acquire and process information, and also harnessing the collaborative power of AR and AI to create intelligent and immersive experiences. I am particularly intrigued by the role of AI in enhancing the capabilities of AR applications, ranging from smart object recognition to dynamic content generation. My goal is to contribute to the evolution of interactive and intelligent AR systems that seamlessly integrate with our daily lives.

Other areas of interest: Object Oriented Programming, Relational Database management system, Content Management System, Machine Learning and Artificial intelligence.

Eligibility:

- UGC NET 2024 (Ph.D Only), K-SET (2024)

Certifications:

- ☐ **Exploring Research Methodologies in Computer Science:** Unravelling the Latest Advances organized by SBRR MAHAJANA FIRST GRADE COLLEGE (24th Nov 2025).
- ☐ **Faculty Development Program (21 Aug 2023 - 25 Aug 2023)**
One Week National Level Faculty Development Program on Cloud Infrastructure



(AWS) organized by MATRUSRI ENGINEERING COLLEGE, Telangana in collaboration with Brainovision Solutions India Pvt. Ltd. and All India Council for Technical Education (AICTE).

- Teachers training program (03 Aug 2023 – 09 Aug 2023)

Subject specific benchmarking of Learning Outcomes: Outcome Based Education. One-Week Teacher's Training Program jointly organized by SBRR Mahajana First Grade College (Autonomous), Jayalakshmipuram, Mysuru and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT) of Ministry of Education.

- Unified Communication Training (24th June 2022)

Innovatia India, Bangalore Innovatia India conducted 5 Weeks of Unified Communication Training under GSAP (Graduate Student Assistance program) Program.

Paper Published:

“AN IN-DEPTH REVIEW OF CHATGPT-4: ADVANCEMENTS, APPLICATIONS, AND ETHICAL IMPLICATIONS” International Journal of Novel Research and Development, Volume 9 | Issue 11 | November-2024 Page No : a409-a412

Other Work Experiences:

- Theorem Inc. Mysore - Social Media Review Analyst (Nov 2019 – May 2020)
- DreamBuzz Mysore - Content Management and Web Development (Intern) (**April 2022 - August 2022**)

Academic Projects:

- Driver Fatigue and Alert System Using Artificial Intelligence Nov 2021 – Feb 2022
- Student Data Management System (Aug 2021 – Nov 2021)
- Systematic Procedure to Maintain APMC System (Nov 2018 – March 2019)

Real time Projects (Intern): Boho art gallery (April 2022 – August 2022)

Pet search- A responsive Web application for pet owners, buyers and sellers. (April 2022 – August 2022)

DreamBuzz – LetsPro Website (April 2022 – August 2022)

Mrs.R.Eswin Pria Angel

Unique ID : 1-43373888535

Current Position : Assistant Professor

Qualification : B.Tech., M.Tech.,

Teaching Experience : 2.5 years

Courses offered : Database Technologies, Discrete Mathematics,
Big Data Analytics, Digital Forensics

Current research interests : Digital Forensics; Network Security

Publications:

No. of publications: 04

International Journal:

[1]. Raviraj.P, **R.Eswin Pria Angel**, Sanavullah.M.Y, 2009 “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, 2009, ” 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.https://gesj.internet-academy.org.ge/en/list_artic_en.php?b_sec=comp&issue=2009-12

[3]. Raviraj.P, **R.Eswin Pria Angel**, 2012,” 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-3(35),2012,pp.45-53.



https://gesj.internet-academy.org.ge/en/list_artic_en.php?b_sec=comp&issue=2012-10

[4]. R. C. Evangeline, **R. Eswin Pria Angel**, 2023, " A Novel Approach for Flexible Nurse Rostering Allotment Using the Nature Inspiration Bee Colony Optimization (BCO) Algorithm", SN Computer Science (Springer) Vol 4, 612, pp.1-8, <https://doi.org/10.1007/s42979-023-02048-w> **IF 0.6 (Scopus indexed)**

No. of Papers presented in National/International symposia/conferences: 01

[1]. C.Anand Deva Durai, M.Karnan , **R.Eswin Pria Angel** , 2010 “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 22nd and 23rd of Jan 2010.

Ms. Sushmita Sheeba DSA

ASSISTANT PROFESSOR

Unique ID : 1-43716671475

Qualification: MCA

EXPERIENCE:



- Assistant Professor, Post Graduate Wing of. SBRR Mahajana First Grade College (Autonomous) [December 2023- Present] Handling PG course subjects and Student Projects. Website Coordinator
- ASSISTANT PROFESSOR, ST. PHILOMENA'S COLLEGE [May 2022- October 2023] Handling PG course subjects and Student Projects Present Head of the Department Member of the Admission Committee Chairperson Of BOE Member of BOS
- ASSISTANT PROFESSOR, SAPIENT COLLEGE OF COMMERCE AND MANAGEMENT [Aug 2019- April 2022] Handled undergraduate and graduate course classes. Employ differentiated teaching methods, incorporating, audio and visual activities to address all learning styles.
- ASSOCIATE SOFTWARE DEVELOPER, ACCENTURE May 2018- July 2019. Experience in Developing web application using Spring MVC, Microservices using spring Boot. Knowledge of Relational Databases, SQL. Experience with Test - driven environment.

Courses offered: Computer Networks, Data Communication, Machine Learning, and Artificial Intelligence.

Current research interests: Automated Software Engineering (ASE) represents a burgeoning field of research at the intersection of computer science and software engineering, offering profound implications for the efficiency, reliability, and scalability of modern software development. As the complexity of software systems continues to escalate, researchers are increasingly exploring innovative approaches to automate various facets of the software engineering lifecycle. This PhD research delves into the theoretical underpinnings and practical applications of ASE, aiming to advance the state-of-the-art in automated code generation, model-driven development, testing, debugging, and other critical aspects of software engineering. The study seeks to unravel the complexities associated with incorporating artificial intelligence, machine learning, and natural language processing into ASE tools, fostering a deeper understanding of how these technologies can synergistically enhance the software development process. By addressing challenges related to scalability, adaptability, and the integration of human-centric elements, this research endeavours to provide novel insights that not only contribute to the academic discourse but also yield tangible advancements in industry practices. Ultimately, the envisaged outcome of this research is to empower software engineers with cutting-

edge automated tools and methodologies, fostering a paradigm shift towards more efficient, reliable, and agile software development practices.

Paper Published:

1. “Java Libraries for Machine Learning: An In-depth Analysis of Weka, Deeplearning4j, and MOA”, INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, Volume 11 Issue 3 | ISSN: 2349-6002.
2. “AeroNet: Efficient YOLOv7 for Tiny-Object Detection in UAV Imagery”, The International Journal of Next-Generation Computing, Volume 15, Issue 3, November 2024, Published Dec 17, 2024

Dr. Meghana J

Assistant Professor,

Unique ID : 1-44731805012

Qualification: B.Sc., MCA, Ph.D, KSET



Corporate Experience: 3 years

Courses offered: Artificial Intelligence Machine Learning, Internet of Things, Programming Languages- Java, and Web Programming.

Current research interests: Social Internet of Things.

Papers Published:

1. Meghana J, J. Hanumanthappa and S. P. Shiva Prakash, "Performance comparison of machine learning algorithms for data aggregation in social internet of things," Global Transitions Proceedings Journal, vol. 2, no. 2, pp. 212–219, 2021. <https://doi.org/10.1016/j.gltp.2021.08.032> (Indexed: Scopus, Elsevier)
2. Meghana J, J. Hanumanthappa, S. P. Shiva Prakash and KirilKrinkin, "Relationship-Cluster Head Selection and Data Compression Enabled Cluster-Based Aggregation Model for Social Internet of Things," Indian Journal of Science and Technology, vol. 16, no. 41, pp. 3605-3616, 2023. 10.17485/IJST/v16i41.1256 (Indexed: Web of Science)
3. Meghana J, J. Hanumanthappa, S. P. Shiva Prakash and KirilKrinkin, "Dynamic Data Aggregation Model for Social Internet of Things devices: Exploring the static and mobile nature", International Journal of Information Engineering and Electronic Business, 2024 (Peer reviewed).

Paper Presentation:

1. Meghana J, J. Hanumanthappa, S. P. Shiva Prakash and KirilKrinkin, "Redundant data identification in Social Internet of Things using Agglomerative Clustering", In Proceedings of International Conference of Innovative Trends in Information Technology, Networks and Security (ICCINS), pp. 1-6, 2024 10.1109/ICITIT61487.2024.10580788. (Indexed: Scopus, IEEEExplore).

Mrs. Shruthy Poonacha

Designation: Assistant Professor

Unique ID: 1-738011028

Teaching & Research experience: Teaching: 19 years



Courses /Subjects Taught: B.Sc. (PMCs)- Computer Network, Operating Systems and System Programming, Fundamentals of Computers & C Programming, Database Management Systems, Digital Fluency, Computer Applications, Office Automation

Teaching & Research experience: Teaching Experience: 18 Years

Research Experience:

- Research Interest: Networking ,Cyber Security, Data Science, Machine Learning

Seminar/ Conference Paper Presentation: State/National/International:

- Presented paper titled “**Green Computing in Cloud Environment-A Review**”, at National Women’s Science Congress that was conducted from 7th November to 9th November 2019, jointly organized by SVAK and SBRR Mahajana First Grade College, Mysuru and **won the Best Paper award.**

Seminar / Conference / Workshop Organized as Coordinator / Organizer etc.(if any) Institutional

- Organized Special Lecture on “**Web Technologies - WWW-The Big Picture**”, session by Dr. Chandrajith M (Alumni), Asst. Prof, MIT First Grade College, Mysuru on 3rd July 2019 at SBRR Mahajana First Grade College, Mysore.
- Organized Special Lecture on “**Web Technologies - WWW-The Big Picture**”, session by Dr. Chandrajith M (Alumni), Asst. Prof, MIT First Grade College, Mysuru on 3rd July 2019.
- Organized Special Talk on “**Opportunities in SAP Technology**”, session by Mr. Raghunandan Rao, Business Mentor, Bengaluru on 29th July 2019.
- Organized **Two Day training programme on Hacks and Techniques for IT Placements** was jointly with *ABC for Technology Training Centre*, Bengaluru on 4th and 5th September 2019
- Served as an organizer for a Demonstration Programme on “**Hacks Virtual Reality using UNITY**” at SBRR Mahajana First Grade College, Mysore. The resource person for the programme was Ms. Anitha (Alumni), Trainer & Developer, Vidwath Innovative Solutions Pvt. Ltd., Mysuru on 9th January 2020.
- Organized Special Talk on “**Importance, Challenges and the Application of Artificial Intelligence (AI) and Machine Learning (ML) in India and Abroad**”, session by Dr. C. N. Ravikumar, Mentor, AI and ML Course, Former Dean (Academics), Professor and HoD, Department of Computer Science and Engineering, SJCE, Mysuru on 20th January 2020 at SBRR Mahajana First Grade College, Mysore.

- Organized Special Lecture on **“Data Science”**, session by Mr. Ashwin D G (Alumni), Founder and Data Scientist, Win Whispers, Bangalore on 20th January 2020 at SBRR Mahajana First Grade College (Autonomous), Mysore.
- Organized a **“Science Lecture Series”** on 28th February 2020 as a part of Science Day Celebration. The resource person for Computer Science Lecture was Mr. Raghava Lingegowda, Group Vertical Head & Head of IT, Theorem India, Mysuru and he spoke on the topic **“Digital Strategy in the Current and Future Business Scenario”** at SBRR Mahajana First Grade College (Autonomous), Mysore.
- Served as Coordinator for the **Computer Hardware Maintenance and Networking 6 Months certificate course** conducted for students of the college between September 2020 to 2021 (delayed due to Corona).
- Served as Coordinator for the Certificate course in **Artificial Intelligence (AI) and Machine Learning (ML)** has been introduced from this academic cycle 2020, specially designed for working professionals and open to all students. The course commenced from 3rd February 2020 to 2021 (delayed due to Corona).
- Organized webinar on **Android Technology**, Resource Person Sri. Manjunath K S, CEO iQuest, Mysuru on 12th June 2020.
- Organized webinar on **Cyber Security In Covid-19 Era** -Dr. A.M.Sudhakar, Former Director of (CIST) - Centre For Information Science and Technology), University of Mysore, on 24th June 2021.
- Served as Faculty Coordinator for two days **“PHYMACO - Interclass Competition, Cultural Events & Sports Event”** organized by the Department of Physics, Mathematics & Computer Science on 22nd and 23rd of July 2022.
- Organized seminar on **Data Science and its Applications** for the B.Sc Students, Resource Person Dr. Mani Shankar S, Associate Professor, GSSS Engineering College, Mysuru on 25th July 2022.
- Organised Interactive Session on **“Problem Solving and Algorithmic Thinking”**, Resource person Sri. Akshay S, Vice Chairperson and Asst. Professor, Department of Computer science, Amrita Vishwa Vidyapeetam, Mysuru Campus.
- Served as an Organizer for Interactive Webinar on **“Data Analytics: Empowering Problem Solving and Professional Growth”**, on 7th June 2023, in college premises for BSc (PMCs) students of our college. Resource Person was Sri. Deepak Kharol, Co-Founder at SkilloVilla and Ex-Senior Growth Manager at Swiggy. National
- Organized webinar on **Latex and its Applications**, Resource Person Dr. V.N. Manjunath Aradhya, Associate Professor, HoD, Department of Computer Applications, JSS Science & Technology University, Mysuru on 19th August 2020.

Seminar / Conference / Workshop / FDP attended by the faculty (other than paper presented)

Institutional

- Attended 10-day Online **Workshop on PHP** organized by MIT First Grade College, Mysuru from 15th June 2020.

- Attended Workshop on National Education Policy 2020 - Highlights and Way Forward for Higher Education Institutions held on at MIT First Grade College, Mysuru on 15th March 2021.
- Attended Webinar on Recent Trends in Computer Vision and its Industrial Applications organized by Hindustan First Grade College, Mysuru on 21st May 2021.
- Attended a Faculty Development Programme on “National Education Policy 2019” on 7th March 2020, training by Acumen Toady, organized by SBRR Mahajana First Grade College, Mysuru.
- Successfully Completed 7 Day Online FDP on “Preparedness for NAAC – Importance of Documentation”, jointly organized by Campus Technology & IQAC, SBRR Mahajana First Grade College (A), Mysuru, from 26th September to 2nd October 2022.
- Participated in a Workshop on “Outcome Based Education (OBE)”, resource person was Dr. Manohar N, Vice-Chairperson & IQAC Co-Ordinator, Amrita Vishwa Vidyapeetham, Mysuru Campus, Mysuru, organized by IQAC, SBRR Mahajana First Grade College (A), Mysuru, on 21st & 22nd October 2022, in the college premises.
- Successfully Completed 1 Day Teachers Training Program on “Cyber Security & Cyber Crime”, jointly organized by Department of Computer Applications & IQAC, SBRR Mahajana First Grade College (A), Mysuru, on 3rd December 2022, in the college premises.
- Successfully Completed 2 Days Training Program on “Math Rocks in Physical Sciences”, jointly organized by Departments of Mathematics, Physics, Computer Science & IQAC, SBRR Mahajana First Grade College (A), Mysuru, on 15th & 16th December 2022, in the college premises.

National

- Attended Webinar on Artificial Neural Networks on conducted by JSS college of Arts, Commerce and Science, Mysuru on 8th June 2020.
- Attended National Level Webinar on “Environmental Friendly Technologies”, on 20th Aug 2020, jointly organized by Departments of Physics, Environmental Science and IQAC, SBRR Mahajana First Grade College (Autonomous), Mysuru
- Organized and attended webinar on Latex and its Applications, Resource Person Dr. V.N. Manjunath Aradhya, Associate Professor, HoD, Department of Computer Applications, JSS Science & Technology University, Mysuru on 19th August 2020.
- Attended a 5 day National level FDP on “Cognizance of Indian National Education Policy 2020” – A Progressive step forward, organized by IQAC of St.Anne’s First Grade College, Bengaluru from 6th to 13th June 2022.

- ☐ Attended Online FDP on "E-Content Development and use of ICT tools in present Academic Era" from 20 - 25 June, 2022 conducted by E&ICT IITG in association with Kampur College, Nagaon, Assam

International

- ☐ Attended Webinar Yoga Day-2021 conducted by SBRR Mahajana First Grade College, Mysuru on 21st June 2021.
- ☐ Membership of Professional Bodies (if any):
- ☐ 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 (Autonomous), Mysuru
- ☐ Member of Cooperative Society, SBRR Mahajana First Grade College (Autonomous), Mysuru
- ☐ Member of Karnataka State Computer Science Teachers Association (KSCSTA)
- ☐ Member of SVAK (Swadeshi Vijnana Andolana-Karnataka) Unit of Vijnana Bharati.
- ☐ Any other contribution by the faculty in Academics / Society:
- ☐ Editor of Departmental Newsletter - Infolet, SBRR Mahajana First Grade College (Autonomous), Mysuru.
- ☐ Serving as Convener / Member for the following committees of SBRR Mahajana First Grade College (Autonomous), Mysuru:
- ☐ UUCMS (Convenor)
- ☐ SPARSH (Convener)
- ☐ Extension and Outreach (Convener)
- ☐ Deputy Controller of Exams
- ☐ Served as an Organizer for celebrating "International Men's Day - 2022", organized by Forum for Women Empowerment, SPARSH & IQAC, SBRR Mahajana First Grade College (A), Mysuru, on 19th November 2022, in the college premises.

- ☐ Served as an Organizer for Activity Based Gender Awareness Program “Arivina Payana – Gender Equality”, resource person was Smt. Vani Periyodi, Hita Samasthe, Mangaluru, jointly organized by Mysuru, on 29th November 2022, in the college premises.
- ☐ Served as an Organizer for Gender Sensitization Program “Dheera”, resource person was Dr. Sonia Mandappa, Kangaroo Care Hospital, jointly organized by Forum for Women Empowerment, SPARSH and IQAC, SBRR Mahajana First Grade College (A), Mysuru, on 15th February 2023, in the college premises.
- ☐ Served as an Organizer for Gender Sensitization Program for BCom Students, resource person was Dr. Nirmala Prakash, Retd. Professor of English & Dean, KSOU, Mysuru, Chairperson, Complaints Committee Pratham, Karnataka, jointly organized by Forum for Women Empowerment, SPARSH and IQAC, SBRR Mahajana First Grade College (A), Mysuru, on 10th June 2023, in the college premises.

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. A Radhesh

Assistant Professor

Department: Computer Application,

SBRR Mahajana First Grade College, Mysuru.

Unique ID: 1-43878790153

Phone No.: +91-9448051564

E-mail: aradhesh@gmail.com



Courses /Subjects Taught: BCA - Computer Network, Fundamentals of Computers & C Programming, Database Management Systems, Data Mining, Numerical Analysis, Discrete Mathematics, Network Security, Computer Applications and Office Automation.

Teaching & Research experience: Teaching Experience: 18 Years

Seminar / Conference / Workshop / FDP attended by the faculty (other than paper presented)

Institutional

- ❖ Attended a Faculty Development Programme on “National Education Policy 2019” on 7th March 2020, training by Acumen Toady, organized by SBRR Mahajana First Grade College, Mysuru.
- ❖ Attended webinar on Latex, organized by NIE First Grade College, Mysuru on 11th December 2020.
- ❖ Attended the webinar on Recent Trends in Computer Vision and its Industrial Applications organized by Hindustan First Grade College, Mysuru on 21st May 2021.
- ❖ Attended one week Teacher’s Training Program jointly organized by SBRR Mahajana First Grade College(Autonomous), Jayalakshmipuram, Mysuru and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education.
- ❖ Participated in a 5-day Faculty Development Program on ‘Making Learning an Immersive experience’ organised by PBMMEC from 27th June 2022 to 1st July 2022.

Any other contribution by the faculty in Academics / Society:

- ❖ Serving as Convener / Member for the following committees of SBRR Mahajana First Grade College (Autonomous), Mysuru:
 - Convener of Saarantha (college drama troupe)

Ms. Sweatha R

Assistant Professor

Computer Science and Application

SBRR Mahajana First Grade College(A),

Mysuru.

PhoneNo.:+91-9482781399

E-mail:sweatha12@gmail.com

Unique ID: 1-43815642656

Courses/Subjects Taught: DBMS, OS UNIX, Network Security, Computer Networks, Web Technology, Multimedia, Design Algorithm and Analysis, Java, DMS.

Teaching Experience: 7 years

Research Interest: Machine Learning and AI Tools



Research and Publication (Research Papers /Books /Chapter Contribution: State/ National/ International):

- LIVE WEBPAGE GENERATION FROM WIREFRAM USING DEEP LEARNING
UGC Approved Journal No:63975(Journal of Emerging Technologies and Innovative Research) published on 31th July 2023, impact factor of 7.9.

Seminar/ Conference/ Workshop Organized as Coordinator/ Organizer etc. (if any):

State-:1. Attended 2 Days Virtual Workshop On “DIGITAL IMAGE PROCESSING USING PYTHON -FOR BEGINNERS” Organized by JSS COLLEGE FOR WOMEN January 18 &19 2022

National –1.Participated in National Level workshop on Internet of Things Organized By St Joseph’s College,Hunsur

2. One Day University Level Hands on Workshop on Statistical Computing with R Programming Organized by MMK & SDM MAHILA MAHA VIDYALAYA Mysore

2. Organized “National Conference on Sustainability Development for Rural life “on July 2019

Seminar/Conference/Workshop/FDP attended by the faculty(other than paper presented):

Institutional-: 1.

Subject specific benchmarking of Learning Outcomes: Outcome Based Education Conducted
By SBRR Mahajana First College, Mysore

State : 1. Participated in State Level Faculty Development Program on Research Trends in
Physical Sciences Organized by NIE FIRST GRADE COLLEGE MYSORE 15th to 22nd
January

Attended one-day Workshop on “NACC Accreditation: Nuances and Strategic
Planning” Organized by St. Joseph’s College(Autonomous) 36, Langford Road
Bengaluru.

Seminar:

- Organized One day National level seminar on Exploring Research Methodologies in
Computer Science: Unraveling the Latest Advances, Date :24th November 2023.

Mrs. N.Sunitha

Assistant Professor

Email : sunithan.fgc@mahajana.edu.in

Contact: 9035411260

Unique ID: 1-43884622896



Experience: 12 years of teaching, 2 years as Junior Project Fellow.

Additional Qualification:

- Certificate in Junior English Typing.
- Certificate course in Communicative Skills.
- Certificate in NCC - ie 'A' Grade.
- Spoken English.

Technical Skills:

Application : VB, COBOL

Multimedia : Photoshop, Graphics

DBMS : Oracle 11 G, SQL

Web : HTML, PHP, CSS , Online

Moodle software Programming : C, C++, Java

Software package : R, SPSS

Achievements:

- Worked for developing online courses on Moodle platform.
- Created course content and uploaded to the Moodle online platform.
- Know about the transaction of the online course and its process..
- Have guided projects for students of Bachelor degree (BCA, B.Sc)
- Worked as HOD in Teresian PU College, Mysore.
- Experience of 10 years' experience in the teaching field.

- Experience in online course creation and transaction.

Workshop and Seminars Participation:

- Attended One day National Seminar on “**Nanotechnology for Energy, Environment and Health**” organized by NIE Institute of Technology, Mysore on 28th February, 2017.
- Attended National level Workshop on “**Data Analysis Using R**” Organized by Dept. of Computer Science, Kristu Jayanti College(Autonomous) on August 26 & 27, 2016.
- Attended one day seminar on “**Prime Minister’s Mudra Yojana**” held on 30th March, 2016 organized by PG Dept., JSSCW, Mysore.
- Attended Two Day National Conference on “**Emerging Trends in Computer science and Technology**” on February 17th and 18th, 2016 organized by St. Philomena’s College(Autonomous), Mysore.
- Participated in the 103rd **Indian Science Congress** held at University of Mysore, from January 3rd to 7th, 2016.
- Participated in a One day “**Training Programme for Mentors**” held on 12th March, 2016 IOAC, JSSCW, Mysore.
- Participated Special Lecturer program on “**Entrepreneurship Development**” orgnaized by PG Dept. , JSSCW , Mysore on 10th June, 2015.
- Attended One day state level Seminar on “**Challenges in Higher Education**” organized by IQAC, Govt. College(Autonomous), Mandya on 7th May, 2015.

Work experience:

- Worked as **Junior Project Fellow (JPF)** in RIE (Regional Institute of Education), Mysore.
- Worked as **Asst. Professor** for PU students in Kautilya PU College, Mysore.
- Worked as **Asst. Professor for PG students** in JSS College for Women, Mysore.
- Worked as **Asst. Professor for UG classes** in Emerald Heights College for

Women, Ooty.

- Worked as **Asst. Professor (HOD)** in Teresian Pre-University College, Mysore.
- Worked as **Guest Lecturer** for Govt. Boys college (Autonomous), Mandya.
- Worked as **Computer Teacher** for classes from I – X in Crescent School, Ooty.
- Worked as a **counselor and a teaching faculty** in S.S.I Computer Center, Mandya.

9 Fee:

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

MCA	I Year (2024- – 2025 batch)		II Year (2023 – 2024 batch)	
	Gov/UoM	Mgmt	Gov/UoM	Mgmt
Karnataka Students	Rs.1,25,000/-	Rs.1,50,000/-	Rs.1,00,000/- -	Rs.1,25,000/-

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

10 Admission

- Number of seats sanctioned with the year of approval

Year	Sanctioned
2024-25	120
2023-24	120
2022-23	60
2021-22	60

- 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
2024-25	5	8	1	2	9	3	41	19	85
2023-24	12	8	2	6	21	3	37	20	109
2022-23	10	4	1	3	13	2	12	15	60

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

Year	Applications Received	Admitted
2024-25	88	85
2023-24	63	63
2022-23	33	33

11 Admission Procedure :

● Admission Test being followed :

1.1 PGCET, Karnataka Examinations Authority(KEA)

- 18th Cross, Sampige Road, Malleshwaram, BANGALORE-560 012
- keauthority-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, <https://kmatindia.com/>

● Number of Seats Allotted:

- Government Quota (PGCET) 60
- Management Quota (PGCET/KMAT) 60

● 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.

<u>MARKS SCORED BY MCA CANDIDATES ADMITTED UNDER GOVERNMENT QUOTA</u>			
Sl. No.	Name of the Student	UG %	PGCET Rank
1	Aishwarya H.N.	79.13	7584
2	Aishwarya M.	88.63	5573
3	Anthony Roshan S.	72.85	8388
4	Anusha H.M.	88.94	14920
5	Anusha P.	82.24	9785
6	Arpitha S.	70.17	14769
7	Bhoomika H.L.	80.20	6271
8	Bhuvan Gowda D.L.	79.13	5068
9	Chinmayi R.	89.50	3193
10	Darshan M.	70.90	5031
11	Dheekshitha Jain M.J.	84.76	7084
12	Dhruva M.S.	64.00	15388
13	Hariprasad Rao R.	78.48	5518
14	Hrithika K.N.	77.13	15239
15	Inchara Y.	88.28	4099
16	Jai Keerthi B.S.	73.00	6730
17	Keerthana M.U.	80.05	5415
18	Keerthana T.C.	92.76	8061
19	Kiran M.P.	73.47	12663

20	Kushal L.	74.18	12218
21	Mahesha	56.78	6007
22	Manju Darshan M.J.	69.77	6046
23	Manya Shree H.S.	85.91	8598
24	Mohan N.	63.20	12142
25	Nisarga S.C.	89.01	3259
26	Nischitha M.	83.32	9045
27	Panchami S.	71.02	6298
28	Preethi S.	80.90	10665
29	Pushpalatha	72.54	7734
30	Sanjana S.N.	83.38	12740
31	Shalini R.	89.33	3535
32	Sindhu G.	90.70	8495
33	Sneha Jenifer	70.39	5951
34	Sourab Deekshith N.	70.76	6243
35	Sowmyashree M.R. (SC)	87.71	15040
36	Sparsa G.K.	84.63	9483
37	Surya Kiran	77.00	4301
38	Sushmitha D.B.	91.14	7022
39	Sushmitha S.R.	92.33	8669
40	Tejaswini D.V.	81.87	8128
41	Tejaswini Devi D.R.	84.72	6485
42	Vandana C.R.	73.68	6380

43	Varsha R.	82.26	7161
44	Vinutha H.D.	66.94	7587
45	Vishal D.S.	76.52	7312
46	Yashwanth H.N.	80.97	6849
<p align="center"><u>MARKS SCORED BY MCA CANDIDATES ADMITTED UNDER MANAGEMENT QUOTA</u></p>			
Sl. No.	Name of the Student	UG %	PGCET Rank / KMAT Percentile
1	Aishwarya A.	91.25	9039
2	Apoorva P.	83.74	12077
3	Ashoka G.S.	73.00	11933
4	B.R. Bhavana	88.75	11519
5	Bhavani B.E.	81.52	9648
6	Bhavani P.	76.00	7182
7	Chaithanya M.T.	59.54	9765
8	Chinmaya M.D.	68.89	11263
9	Darshan C.D.	58.16	5133
10	Diana S.	81.10	14409
11	Gowtham M.	56.8	11124
12	Harini M.R.	68.66	14265
13	Harsha H.S.	57.13	14078
14	Harshitha Singh B.K.	80.65	41.25 Percentile
15	Hemanth Kumar Rao	86.54	15225

16	Khushi S.	83.17	8073
17	Kiran N.	72.50	58.82 Percentile
18	Koushik H.G.	80.37	14779
19	Kusuma A.S.	83.89	15144
20	Madan	62.87	10933
21	Manjunath M.	64.16	17.06 Percentile
22	Nandan G.S.	75.15	14887
23	Nidhishree C.K.	75.63	14593
24	Nithya D.	84.33	12222
25	Pavan N.	81.02	13740
26	Prajwal N.R.	56.90	54.52 Percentile
27	Rashmi Ramesh Goule	79.6	13129
28	Rishal Cutinha	82.65	11267
29	Sinchana Y.L.	76.1	64.65 Percentile
30	Sindhu S.	89.57	15060
31	Snajana K.S.	81.74	13329
32	Sriranjini G.V.	67.96	13684
33	Suhas Y.C.	74.59	7620
34	Sunil K.	84.42	10894
35	Varsha K.I.	73.33	9822
36	Varshini B.T.	83.98	12931
37	Yashaswini S.R.	85.41	9733
38	Yogesh Gowda H.V.	77.65	2.04

39	Yogesh R.	70.20	20.07 Percentile
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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)

<u>MARKS SCORED BY MCA CANDIDATES ADMITTED UNDER GOVERNMENT QUOTA</u>			
Sl. No.	Name of the Student	UG %	PGCET Rank
1	Aishwarya H.N.	79.13	7584
2	Aishwarya M.	88.63	5573
3	Anthony Roshan S.	72.85	8388
4	Anusha H.M.	88.94	14920
5	Anusha P.	82.24	9785
6	Arpitha S.	70.17	14769
7	Bhoomika H.L.	80.20	6271
8	Bhuvan Gowda D.L.	79.13	5068
9	Chinmayi R.	89.50	3193
10	Darshan M.	70.90	5031
11	Dheekshitha Jain M.J.	84.76	7084
12	Dhruva M.S.	64.00	15388
13	Hariprasad Rao R.	78.48	5518
14	Hrithika K.N.	77.13	15239
15	Inchara Y.	88.28	4099
16	Jai Keerthi B.S.	73.00	6730
17	Keerthana M.U.	80.05	5415
18	Keerthana T.C.	92.76	8061

19	Kiran M.P.	73.47	12663
20	Kushal L.	74.18	12218
21	Mahesha	56.78	6007
22	Manju Darshan M.J.	69.77	6046
23	Manya Shree H.S.	85.91	8598
24	Mohan N.	63.20	12142
25	Nisarga S.C.	89.01	3259
26	Nischitha M.	83.32	9045
27	Panchami S.	71.02	6298
28	Preethi S.	80.90	10665
29	Pushpalatha	72.54	7734
30	Sanjana S.N.	83.38	12740
31	Shalini R.	89.33	3535
32	Sindhu G.	90.70	8495
33	Sneha Jenifer	70.39	5951
34	Sourab Deekshith N.	70.76	6243
35	Sowmyashree M.R. (SC)	87.71	15040
36	Sparsa G.K.	84.63	9483
37	Surya Kiran	77.00	4301
38	Sushmitha D.B.	91.14	7022
39	Sushmitha S.R.	92.33	8669
40	Tejaswini D.V.	81.87	8128
41	Tejaswini Devi D.R.	84.72	6485
42	Vandana C.R.	73.68	6380
43	Varsha R.	82.26	7161

44	Vinutha H.D.	66.94	7587
45	Vishal D.S.	76.52	7312
46	Yashwanth H.N.	80.97	6849
<u>MARKS SCORED BY MCA CANDIDATES ADMITTED UNDER MANAGEMENT QUOTA</u>			
Sl. No.	Name of the Student	UG %	PGCET Rank / KMAT Percentile
1	Aishwarya A.	91.25	9039
2	Apoorva P.	83.74	12077
3	Ashoka G.S.	73.00	11933
4	B.R. Bhavana	88.75	11519
5	Bhavani B.E.	81.52	9648
6	Bhavani P.	76.00	7182
7	Chaithanya M.T.	59.54	9765
8	Chinmaya M.D.	68.89	11263
9	Darshan C.D.	58.16	5133
10	Diana S.	81.10	14409
11	Gowtham M.	5.68	11124
12	Harini M.R.	68.66	14265
13	Harsha H.S.	57.13	14078
14	Harshitha Singh B.K.	80.65	41.25 Percentile
15	Hemanth Kumar Rao	86.54	15225
16	Khushi S.	83.17	8073
17	Kiran N.	72.50	58.82 Percentile
18	Koushik H.G.	80.37	14779

19	Kusuma A.S.	83.89	15144
20	Madan	62.87	10933
21	Manjunath M.	64.16	17.06 Percentile
22	Nandan G.S.	75.15	14887
23	Nidhishree C.K.	75.63	14593
24	Nithya D.	84.33	12222
25	Pavan N.	81.02	13740
26	Prajwal N.R.	56.90	54.52 Percentile
27	Rashmi Ramesh Goule	79.6	13129
28	Rishal Cutinha	82.65	11267
29	Sinchana Y.L.	7.61	64.65 Percentile
30	Sindhu S.	89.57	15060
31	Snajana K.S.	81.74	13329
32	Sriranjini G.V.	67.96	13684
33	Suhas Y.C.	74.59	7620
34	Sunil K.	84.42	10894
35	Varsha K.I.	73.33	9822
36	Varshini B.T.	83.98	12931
37	Yashaswini S.R.	85.41	9733
38	Yogesh Gowda H.V.	77.65	2.04
39	Yogesh R.	70.20	20.07 Percentile

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

<u>LIST OF APPLICANTS ADMITTED UNDER MANAGEMENT QUOTA</u>			
Sl. No.	Name of the Student	UG %	KEA Rank / KMAT Percentile
1	Aishwarya A.	91.25	9039
2	Apoorva P.	83.74	12077
3	Ashoka G.S.	73.00	11933
4	B.R. Bhavana	88.75	11519
5	Bhavani B.E.	81.52	9648
6	Bhavani P.	76.00	7182
7	Chaithanya M.T.	59.54	9765
8	Chinmaya M.D.	68.89	11263
9	Darshan C.D.	58.16	5133
10	Diana S.	81.10	14409
11	Gowtham M.	5.68	11124
12	Harini M.R.	68.66	14265
13	Harsha H.S.	57.13	14078

14	Harshitha Singh B.K.	80.65	41.25 Percentile
15	Hemanth Kumar Rao	86.54	15225
16	Khushi S.	83.17	8073
17	Kiran N.	72.50	58.82 Percentile
18	Koushik H.G.	80.37	14779
19	Kusuma A.S.	83.89	15144
20	Madan	62.87	10933
21	Manjunath M.	64.16	17.06 Percentile
22	Nandan G.S.	75.15	14887
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28	Rishal Cutinha	82.65	11267
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34	Sunil K.	84.42	10894
35	Varsha K.I.	73.33	9822
36	Varshini B.T.	83.98	12931

37	Yashaswini S.R.	85.41	9733
38	Yogesh Gowda H.V.	77.65	2.04
39	Yogesh R.	70.20	20.07 Percentile

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
	LAB-5	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	Rooms	Capacity of each
	10	30
Online examination facility (Number of Nodes, Internet bandwidth, etc.)	No	
Barrier Free Built Environment for disabled and elderly persons	Yes	
Hostel Facilities	Girl's 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

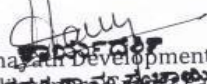
ಸಿದ್ಧಲಿಂಗಪುರ, ಮೈಸೂರು ತಾಲ್ಲೂಕು

ಸಿ. ಗ್ರಾ. ಪಂ. ನಂ. 341/09-10

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


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

□ Fire and Safety Certificate

No:04/DFO(F.P)/HFS/MY/RCC/2024-25

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, building at KRS Road, Metagalli, Mysuru.

Ref:- 1. No.14/FSR/CFO/MZ/2019, dated: 12-02-2019.
2. No.02/DFO(F.P)/HFS/MY/RCC/2023-24, dated: 21-04-2023.
3. Your request letter dated: 18-04-2024.

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.

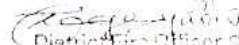
As per reference (2) the School management rectified the observations and other requirements and 'Renewal of Fire Safety Compliance Certificate' was issued.

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, building at KRS Road, Metagalli, Mysuru was re-inspected by me on 19-04-2024 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 24-04-2025 and is renewable.

Yours faithfully


District Fire Officer
Fire Prevention & Protection
Hebbal Fire Station
Mysuru-570019

Copy to, with due respect,
Director General of Police And Director General,
Karnataka Fire and Emergency Services,
Bangalore-560042

□ **Library**

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

Programme	Volumes	Titles	Journals available
MCA	7796	3704	19

b. List of online National/ International Journals subscribed : J-GATE, N-LIST, DELNET

c. National Digital Library (NDL) Membership Number :
INKNC34KOWMGZ

□ **Laboratory and Workshop**

d. List of Major Equipment/Facilities in each Laboratory:

- i. Server, Computer Systems, Projector, Projector Screen, Printer, Scanner, Online UPS, Stabilizer & AC

□ **Computing Facilities**

Internet Bandwidth	300 MBPS
Configuration of System	Number
ML350G5 PROCESSOR-XEON 2.33 GHz, 2 GB RAMS, HARD DISK-250 GB.	2
DELL System- Processor = Core i5, 3.0 GHz, HDD = 500 GB, RAM = 8 GB	30
DELL System- Processor = Core i5, 3.60 GHz, HDD=256 GB, RAM = 8 GB	20
DELL System- Processor = Core i7, 3.60 GHz, HDD=256 GB, RAM = 8 GB	79
Acer System Processor = Core i3, 3 GHz, HDD = 500GB, RAM = 4 GB, LCD	2
Dell System Processor = Core i3, 3.60 GHz, HDD = 1 TB, RAM = 4 GB	1
Total number of system connected by LAN	134
Total number of system connected by WAN	134

Major software packages available		
Sl 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 Badminton court (indoor) x2
- Lawn Tennis court (cement) x1
- Basket Ball court (cement) x1
- Table Tennis board x2
- Carom board x2

□ **Teaching Learning Process**

- Curriculum and syllabus :

Refer to Appendix 1 (Page No. 1-93)

□ Academic Calendar :

S.B.R R.M.F.G.C/1782/2024-25
20/02/25

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

Academic Calendar-Post Graduate MBA & MCA

Common Calendar of Events for the Academic Year 2024-25 (Odd & Even Semester)

Sl. No.	Academic Activity	Dates
1.	Commencement of III Semester Classes MCA	23.12.2024
2.	Commencement of III Semester Classes MBA	21.01.2025
3.	Commencement of I Semester Classes MCA / MBA	02.01.2025
4.	Closure of III Semester Classes MCA	12.04.2025
5.	Closure of III Semester Classes MBA	10.05.2025
6.	Closure of I Semester Classes MCA / MBA	21.04.2025
7.	Commencement of I & III Semester MCA / I Semester MBA Examinations	28.04.2025
8.	Mid-Term Vacation (including conducting of Examination and Valuation work of III Semesters)	21.04.2025 to 25.05.2025
9.	Commencement of III Semester MBA Examinations	19.05.2025
10.	Commencement of II and IV Semester Classes MCA / II Semester Classes MBA	26.05.2025
11.	Commencement of IV Semester Classes MBA	09.06.2025
12.	Closure of II and IV MCA / II MBA	13.09.2025
13.	Closure of IV Semesters MBA	27.09.2025
14.	Commencement of II and IV MCA / II MBA Semester Examinations	22.09.2025
15.	Commencement of IV MBA Semester Examinations	06.10.2024
16.	Conducting of Examination and Valuation work of II and IV Semesters MCA / II Semesters MBA (includes terminal vacation)	13.09.2025 to 10.10.2025
17.	Conducting of Examination and Valuation work of IV Semesters MBA (includes terminal vacation)	27.09.2025 to 25.10.2025


(Dr. Sreedhara H)
DEAN-ACADEMICS

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

1. Hon. Secretary, MES
2. Administrative Officer, MES
3. MES Office
4. Principal's Office
5. Director, PG Centre


(Dr. B R Jayakumari)
PRINCIPAL

Smt. Bhagyalakshamma Rattehalli Ramappa
Mahajana First Grade College (Autonomous)
Jayalakshampuram, Mysuru-570 012

6. Director's Office
7. Director - Tourism Department
8. Office of The Controller of Examinations
9. Examination Section and office - UG

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

● **Academic Time Table :**


PG Wing of SBRR Mahajana First Grade College, Autonomous
 POOJA BHAGAVAT MEMORIAL MAHAJANA EDUCATION CENTRE
 K.R.S. Road, Metagalli, Mysuru – 570016
 Department of Master of Computer Application
 I and III Semester MCA Time Table – W.E.F 9th January 2025

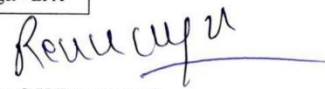
Day / Time	Semester	Section	10:00 am - 11:00am	11:15 am - 12:15 pm	12:15 pm - 1:15 pm	1:15 pm - 02:00 pm	2:00 pm - 3:00 pm	3:00 pm to 4:00 pm	
Monday	I	A	ALG Lab (AK, YKT) - M.Sc. (CS) Lab 02		PC (SS)	Lunch Break	MFCA (GHT)		
	I	B	PC (MJ)	DM (LMM)	ALG (AK)		DM (EPA)		
	III	A	MADwA (LMM)	ACN (YJ)	FloT (MJ)		Py. Prog. Lab (SS,LMM,YKT) - MSc (CS) Lab 02		
	III	B	Py. Prog. (SS)	ACN (EPA)	FloT (YKT)		ACN (YJ)	PE&HV (AK)	
Tuesday	I	A	DM (EPA)	PC (MJ)	DBS (YKT)			ALG (AK)	
	I	B	ALG Lab (AK, YJ) - M.Sc. (CS) Lab 02		ALG (AK)		MFCA (GHT)		
	III	A	FloT (YKT)	MADwA (LMM)	CNS (YJ)/ ML with Py. (EPA)		PE&HV (MJ)		
	III	B	FloT (MJ)	Py. Prog. (SS)	CNS (SS)/ ML with Py. (EPA)		Py. Prog Lab (SS, YJ, YKT) - MSc (CS) Lab 02		
Wednesday	I	A	DM (LMM)	DM (EPA)	PC (SS)				
	I	B	DBS (YKT)	MFCA (GHT)			ALG (AK)		
	III	A	CNS (YJ)/ ML with Py. (EPA)	PE&HV (AK)	FloT (MJ)		ACN (EPA)	Py. Prog. (SS)	
	III	B	CNS (SS)/ ML with Py. (EPA)	ACN (YJ)	FloT (YKT)		MADwA Lab(LMM, YKT, YJ) - MSc (CS) Lab 02		

Thursday	I	A	DBS Lab (YKT, YJ) - M.Sc.(CS) Lab 02		DBS (YKT)	Lunch Break	PC (MJ)	DM (LMM)
	I	B	DM (EPA)	PC (SS)	PC (MJ)		DBS (YKT)	
	III	A	Py. Prog. (SS)	PE&HV (AK)	ACN (YJ)		CNS (SS)	
	III	B	PE&HV (MJ)	MADwA (LMM)	ACN (EPA)		ML with Py. Lab(EPA, AK) - MCA Lab 01	
Friday	I	A	MFCA (GHT)		ALG (AK)		CNS (YJ)	
	I	B	DBS Lab (YKT, EPA) - M.Sc.(CS) Lab 02		DBS (YKT)		ML with Py. Lab(EPA, AK) - MCA Lab 01	
	III	A	MADwA (LMM)	Py. Prog. (SS)	PE&HV (MJ)			
	III	B	PE&HV (AK)	PE&HV (MJ)	MADwA (LMM)		MADwA Lab(LMM, YJ, MJ) - MSc (CS) Lab 02	
Saturday	I	A	DBS (YKT)	ALG (AK)			Py. Prog. (SS)	
	I	B	PC (SS)	DM (LMM)				
	III	A	ACN (EPA)	CNS (SS)/ ML with Py. (EPA)	FloT (YKT)			
	III	B	MADwA (LMM)	CNS (YJ)/ ML with Py. (EPA)	FloT (MJ)			

Course	I Semester MCA	Faculty
ALG	Algorithms	Dr. Anisha Kumar - AK
MFCA	Mathematical Foundation for Computer Application	Mr. Ganesha H T - GHT
PC	Professional Communication	Ms. Sushmita Sheeba Dsa - SS Dr. Meghana J - MJ
DM	Data Mining	Ms. Likhitha M M - LMM Mrs. Eswin Pria Angel - EPA
DBS	Database Systems	Mrs. Yashaswini K T - YKT

Course	III Sem MCA	Faculty
ACN	Advanced Computer Networks	Mrs. Yashaswini J - YJ Mrs. Eswin Pria Angel - EPA
Py. Prog.	Python Programming	Ms. Sushmita Sheeba Dsa - SS
CNS	Cryptography and Network Security	Mrs. Yashaswini J - YJ Ms. Sushmita Sheeba Dsa - SS
FIoT	Fundamentals of Internet of Things	Dr. Meghana J - MJ Mrs. Yashaswini K T - YKT
MADwA	Mobile Application Development with Android	Ms. Likhitha M M - LMM
PE&HV	Professional Ethics and Human Values	Dr. Anisha Kumar - AK Dr. Meghana J - MJ
ML	Machine Learning with Python	Mrs. Eswin Pria Angel - EPA


 (Mrs. Yashaswini J)
 Asst. Professor and In-Charge Head
HEAD
 DOS in Comp. Appn. (MCA)
 SBRR MFGC, PG Wing
 PBMMEC, KRS Rd., Metagalli
 MYSORE-570 006


 (Dr. C.K. Renukaryu)
 Director
DIRECTOR
 SBRR MAHAJANA F.G. COLLEGE
 (Autonomous)
 POST GRADUATE WING
 PBM MAHAJANA EDM, CEI...
 KRS Rd., Metagalli, MYS-570006

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

Year of Passing	No. of Students Enrolled	No. of Students Placed
2023	74	15
2022	77	50
2021	30	20

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**

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

8	Uniprofilers Pvt Ltd	No.383 1 st Floor, 7 th Main, Padmanabha Nagar, Bengaluru	To Conduct pre-placement interactive session and assist students to build their better resumes and Profile	3 rd March 2022
9	e2eHiring	Flat No 312, 2 nd Block, Samhita Green Woods Apartments, Thubarahalli, Bengaluru 560066	A Supportive recruitment program for students looking for placements	18 th 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. PAN: AASCS8515R and CIN: U722OOMH2O13PTC247718	<ol style="list-style-type: none"> 1. Complete Preparation for Job & Internship - Activities for a period of 1" year which would include Live Aptitude Tests & Company Specific Mock Tests. 2. Live Bootcamp from Top industry Experts (Minimum of 25) 3. Free Access to all the content under Testbook Pass for a period of 1 month 4. Chance to get internships & full-time job opportunities through various competitions. 	10 th November 2022

11	STARTUP GRIT BUSINESS CIRCLES PRIVATE LIMITED	N-119 1st Floor Manipal Centre North Block Dickenson Road Bangalore Bangalore KA 560042, INDIA CIN:U74999KA2020PTC141207	<ol style="list-style-type: none"> 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., 2. To organize industrial visits for the PG Students. 3. To provide internship for the PG students. 4. To assist PG Students in placement. 5. To deliver technical talks to students. 	12 th January 2023
12	JV GLOBAL SERVICES LLP	No. 1078, 2nd Floor, 11th main (Modi Hospital Road), Mahalakshampuram, Bengaluru-560086	To impact Skill based training (details as per Proposal submitted) to the Students on all relevant areas in order to bridge the skill gap and make them industry ready.	11th January 2024

18 LoA and subsequent EoA till the current Academic Year

Refer to Appendix 2 (Page No. 1-63)

19 Accounted audited statement for the last three years

Refer to Appendix 3 (Page No. 1-25)

Appendix 1: Course Structure and Syllabi for MCA Programme

DEPARTMENT OF MCA
2024-2025

MOTTO

Enter to Learn Depart to Serve

VISION

Build a Strong Research and Teaching Environment that Responds Swiftly to the Challenges of the 21st 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

2024-2025

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 labeled and defined as follows:

Core Course

A course which should compulsorily be studied by a candidate as a core requirements 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/Dissertation work may be a hard core or a soft core as decided by the BoS concerned.

2. Eligibility for Admission

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). Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying Examination.

3. Scheme of Instructions

3.1 A Master's 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 Master's 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 pre-vialing 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	40
Soft Core	A minimum of 32, not exceeding 36
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 8th week of the semester. Beyond 8th 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 16th 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 18th -20th 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:

- Knowledge of relevant processes
- Skills and operations involved
- 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 th week
C2	Remaining 50%	25%	Second half of the semester. To be consolidated by 16 th week
C3	Semester-end examination(All units of the course)	50%	completed during 18th-20 th Week.
Final grades to be announced latest by 24th week			

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 it is 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:

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

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, and 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: Analyze 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. 2024-2025

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	24BH01
2	Algorithms	3	0	1	4	24BH02
3	Linux Programming	3	0	1	4	24BH03
4	Object Oriented Programming with Java	3	0	1	4	24BH04
5	Professional Communication	3	1	0	4	24BH05
6	Machine Learning with Python	3	0	1	4	24BH06
7	Advanced Computer Networks	3	1	0	4	24BH07
8	Web Technologies	3	0	1	4	24BH08
9	Major Project	0	2	6	8	24BH09

List of Soft Core Courses

Sl. No.	Course Title	Credit Pattern			Credits	Course Code
		L	T	P		
1	Artificial Intelligence	3	1	0	4	24BS01
2	Database Systems	3	0	1	4	24BS02
3	Cloud Security and Privacy	4	0	0	4	24BS03
4	Network Security	3	1	0	4	24BS04
5	Big Data Analytics	3	0	1	4	24BS05
6	Theory of Languages	3	1	0	4	24BS06
7	Probability and Statistics	3	1	0	4	24BS07
8	Internet of Things	3	1	0	4	24BS08
9	Mobile Application Development with Android	3	0	1	4	24BS09
10	Data Indexing Techniques	3	0	1	4	24BS10
11	Information Retrieval	3	0	1	4	24BS11
12	Digital Forensics	3	1	0	4	24BS12
13	Digital Image Processing	3	0	1	4	24BS13
14	Advanced Java	3	0	1	4	24BS14
15	Wireless Sensor Networks	3	1	0	4	24BS15
16	Data Mining	3	1	0	4	24BS16
17	Entrepreneurship Development	3	1	0	4	24BS17
18	Business Intelligence	3	1	0	4	24BS18
19	Professional Ethics and Human Values	3	1	0	4	24BS19
20	Cyber Security	3	1	0	4	24BS20
21	Simulation and Modeling	3	1	0	4	24BS21
22	Advanced Software Engineering	3	1	0	4	24BS22
23	Research Methodology	3	1	0	4	24BS23
24	NPTEL MOOC COURSE (min. 08 weeks)	0	0	0	4	24BS24

List of Open Elective Courses

Sl. No.	Course Title	Credit Pattern			Credits	Course Code
		L	T	P		
1	World Wide Web	3	1	0	4	24BE01
2	E-Commerce	3	1	0	4	24BE02
3	Office Automation	3	1	0	4	24BE03

BRIDGE COURSE

Fundamentals of Computers and C Programming

Total: 30 hours

Note: Fundamentals of Computers and C Programming is a mandatory non-credit Bridge Course only for the students who have completed their Bachelor's degree program in non-computer disciplines.

Course Objective:

This course is designed to get the students equipped with the fundamentals of computer science. This course will help the students to develop the programming skills through a well-known language: C.

Course outcomes:

At the end of the course the students will be able to:

CO1. Learn the basics of Computers and its organization.

CO2. Study and implement the concept of operators, decision making statements, and loop control structures.

CO3. Learn and execute programs on functions.

CO4. Gain knowledge about pointers and execute the programs using pointers, arrays and structures.

Unit I

Computer Fundamentals: Basics of computers, basic computer organization, storage hierarchy, storage devices, input-output devices. Computer Software. Introduction to operating systems.

Unit II

Elements of C language: C character set, identifiers & keywords, data types: declaration & definition. Operators: Arithmetic relational, logical, bitwise, unary, assignment and conditional operators & their hierarchy & associativity, Data input/output. Control statements: Sequencing, Selection: if and switch statement; iteration: for, while, and do-while loop; break, continue, goto statement.

Unit III

Functions in C language: Definition, prototype, passing parameters, recursion.

Unit IV

Data structure: arrays, structures, union, strings, Arrays and Pointers.

References:

1. Reema Thareja, Computer Fundamentals and Programming in C, Third Edition,

Oxford University Press.

2. By Sumitabha Das, Computer Fundamentals and C Programming, McGrawHill.
3. Yashwant Kanitkar, Let us C, BPB Publications.
4. Pradeep k. Sinha & Priti Sinha, Computer Fundamentals, BPB Publications.
5. Byron S Gottfried, Programming with C, Tata McGrawHill.

Course Articulation Matrix:

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	2	2	1	1	1	2	1	2
CO2	3	3	3	2	2	1	1	2	2	2
CO3	3	3	2	3	3	1	1	2	2	2
CO4	3	3	3	3	3	1	1	2	2	2
Weighted Average	3	3	2.5	2.5	2.25	1	1	2	1.75	2

HC Mathematical Foundations and Computer Applications 4:0:0

Total: 40 hours

Objectives:

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

Course Outcomes:

At the end of the course the students will be able to:

CO1: To construct mathematical arguments using logical connectives and quantifiers.

CO2: Understand the basic concepts of Mathematical reasoning, set and functions.

CO3: Acquires knowledge of set theory, groups concepts needed for designing and Solving problems.

CO4: Understand the concepts of matrix, Eigen Values and Vectors.

UNIT I

Mathematical logic: Introduction, Statements and Notation, Connectives, Arguments, Normal Forms, Theory of Inference for the Statement Calculus, The Predicate Calculus, Inference Theory of the Predicate Calculus.

Unit II

Sets-Basic definitions - Laws of set theory - Principle of inclusion and exclusion – Partitions - Permutation and combination – Relations -Properties of relations – Equivalence relation-Matrices of relations - Closure operations on relations -n-ary relations- Functions.

Unit III

Groups – Axiom of a group – Examples and basic algebra in groups – Order of an element of a group – Isomorphism of groups – Cyclic groups– Subgroups – Cosets and Lagrange's theorem.

Unit IV

Matrices - Rank of a matrix - Solving system of equations – Echelon form of a matrix and Row reduced echelon form of matrix.- Eigen values and Eigenvectors.

References:

1. Rosen K. H., "Discrete Mathematics and its Applications", Seventh Edition, Tata McGraw-Hill, New Delhi, 2007.
2. R. P. Grimaldi, "Discrete and Combinatorial Mathematics", Pearson Education, Fifth Edition, 2007.

3. David Makinson, "Sets, Logic and Maths for Computing", Springer Indian Reprint, 2011.
4. Trembley, J.P. and Manohar, R, "Discrete Mathematical Structures with Applications to Computer Science", Tata McGraw Hill, New Delhi, 2007.

Course articulation matrix:

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

HC

ALGORITHMS

3:0:1

Total: 45 hours

Objectives:

- Understand the basics of algorithms, which are step-by-step procedures or Formulas for solving problems and understand fundamental data structures.
- Explore different types of algorithms: sorting, searching, graph traversal, and dynamic programming.
- Study algorithm design techniques such as divide and conquer, greedy algorithms, and backtracking.
- Learn about algorithm analysis, including time complexity (Big O notation).
- Recognize the importance of algorithms in computer science, data analysis, and optimization problems.

Course outcomes:

At the end of the course the students will be able to:

CO1: Understand and analyze the fundamental principles and techniques of algorithms and data structures.

CO2: Implement and evaluate basic algorithms for sorting and searching and solve using divide and conquer method.

CO3: Apply greedy algorithmic techniques to solve computational problems.

CO4: Apply algorithmic techniques such as dynamic programming and backtracking to solve computational problems.

Unit I

Introduction to Algorithm: Algorithm Specification, Analysis Framework, Performance Analysis: Space complexity, Time complexity. Asymptotic Notations: Mathematical analysis of non- recursive and recursive Algorithms with Examples. Important Problem Types: Sorting, Searching, Fundamental Data structures: Arrays, Stacks, Queues, Graphs, Trees.

Unit II

Divide and Conquer: General method with Examples, Binary search Finding the maximum and minimum, Merge sort, Quick sort, Advantages and Disadvantages of divide and conquer, Decrease and Conquer Approach: Topological Sort.

Unit III

Greedy Method: General method With Examples, Knapsack Problem, Minimum cost spanning trees, Prim's Algorithm, Kruskal's Algorithm, Dijkstra's Algorithm, Heaps and Heap Sort.

Unit IV

Dynamic Programming: General method with Examples, Multistage Graphs, All Pairs Shortest Paths: Floyd's Algorithm, Travelling Sales Person problem,

Backtracking: General method, N-Queens problem, Sum of subsets problem, Hamiltonian cycles.

Textbooks:

1. Anany Levitin, Introduction to the Design and Analysis of Algorithms, 2nd Edition, 2009. Pearson.
2. Ellis Horowitz, Satraj Sahni and Rajasekaran, Computer Algorithms/C++, 2nd Edition, 2014, Universities Press.

References:

1. Thomas H. Cormen, Charles E. Leiserson, Ronal L. Rivest, Clifford Stein, Introduction to Algorithms, 3rd Edition, PHI.
2. S. Sridhar, Design and Analysis of Algorithms, Oxford (Higher Education).

Weblink References:

1. A Survey on data-efficient algorithms in big era Amina Adadi
journal of Big Data volume 8, Article number:24(2021) Cite this
article 24k Accesses 96, Citations 74 Altmetric Met
<https://journalofbigdata.springeropen.com/articles/10.1186/s40537-021-00419-9>
2. Scalable Algorithms for Association Mining Mohammed J. Zaki, Member, IEEE
Zaki M J (2000) Scalable algorithms for association mining. IEEE Transactions on Knowledge and Data Engineering 12(3):372-390
<https://www.researchgate.net/publication/3296896>

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	2	2	2	2	-	-	-	-	1
CO2	2	2	2	2	2	-	-	-	-	1
CO3	2	2	2	1	2	-	-	-	-	1
CO4	2	2	2	2	2	-	-	-	-	1
Weighted Average	2	2	2	1.75	2	-	-	-	-	1

HC

LINUX PROGRAMMING

3:0:1

Total: 45 hours

Objectives:

- To introduce students to the basics of UNIX/Linux systems and shell scripting.
- To impart the knowledge of file handling and environment management in Linux.
- Understand process management and threading in Linux.

Course outcomes:

At the end of the course the students will be able to:

CO1: Develop basic skills in using and programming UNIX/Linux systems

CO2: Acquire the ability to manage files and environment settings in Linux.

CO3: Demonstrate process and thread management and synchronization in Linux.

CO4: Apply inter-process communication methods and socket programming in Linux.

Unit I:

Getting started, An Introduction to UNIX, Linux, and GNU, What Is UNIX? What Is Linux?, The GNU Project and the Free Software Foundation, Linux Distributions, Programming Linux, Linux Programs, Text Editors, The C Compiler, The Shell as a Programming Language, Basic Linux Commands, Interactive Programs, Creating a Script, Making a Script Executable, Shell Syntax, Variables, Conditions, Control Structures, Functions, Commands, Command Execution.

Unit II:

Working with Files, The Standard I/O Library, Formatted Input and Output, File and Directory Maintenance, Scanning Directories, The Linux Environment-Program Arguments, Environment Variables, Time and Date, Temporary Files.

Unit III:

Process Structure, Starting New Processes, Signals, POSIX Threads, What Is a Thread? A First Threads Program, Simultaneous Execution, Synchronization-Synchronization with Semaphores.

Unit IV:

Inter-Process Communication: Pipes, What Is a Pipe?, Process Pipes, Sending Output to popen, The Pipe Call, Parent and Child Processes, Named Pipes: FIFOs-Accessing a FIFO, Opening a FIFO with open, Semaphores, Shared Memory, and Message Queues. Sockets- Socket Connections, Types, Creating a socket, Naming a socket, Closing a socket.

References:

1. Neil Matthew, Richard Stones, Beginning Linux® Programming, Wiley Publishing, Inc. 4th Edition.
2. Advanced Programming in the UNIX Environment" by W.Richard Stevens, Stephen A. Rago.

Weblink References:

1. Research on Linux Trusted Boot Method Based on Reverse Integrity Verification, Chenlin Huang, Chuanwang Hou, Huadong Dai, Hindawi Publishing Corporation Advances in Computer Engineering Volume 2015, Article ID 261094, 8 pages. <http://dx.doi.org/10.1155/2015/261094>, <https://onlinelibrary.wiley.com/doi/full/10.1155/2016/4516596>
2. Title: Linux Low-Latency Tracing for Multicore Hard Real-Time Systems, Raphaël Beamonte, Hindawi Publishing Corporation Scientific Programming Volume 2016, Article ID 4516596, 12 pages. <http://dx.doi.org/10.1155/2016/4516596>, <https://onlinelibrary.wiley.com/doi/full/10.1155/2015/261094>
3. Linux “man” pages and “info” pages. <https://man7.org/linux/man-pages/man1/man.1.html>
4. The Linux Documentation Project : <http://www.tldp.org/>

Course Articulation Matrix:

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO										
CO1	3	3	2	1	2	1	-	1	2	1
CO2	3	2	3	2	2	1	-	-	1	1
CO3	3	2	2	2	2	-	-	1	1	1
CO4	3	2	3	3	3	2	-	-	3	1
Weighted Average	3	2.25	2.5	2.5	2.25	1	-	0.5	1.75	1

HC OBJECT ORIENTED PROGRAMMING WITH JAVA 3:0:1

Total: 45 hours

Objectives:

- Understand the basics of Java programming, including syntax, data types, variables, and control structures.
- Explore Object-Oriented Programming (OOP) principles in Java, including classes, objects, inheritance, polymorphism, and encapsulation.
- Learn about error handling and debugging techniques to develop robust and error-free Java applications.
- Study the creation of graphical user interfaces (GUIs) using Java libraries such as Swing.

Course outcomes:

At the end of the course the students will be able to:

CO1: Develop fundamental Java programming skills and understand core concepts.

CO2: Understand and implement Java classes, objects, arrays, and methods effectively.

CO3: Understand and apply inheritance, polymorphism, packages, and exception handling in Java.

CO4: Understand and implement Java multithreading, synchronization, and collection framework usage efficiently.

Unit I

Introduction to java : Introduction to OOPs Concepts, History of java , Java Essentials , Java Virtual Machine , Java Features , Program Structure . Java Programming Constructs: Variables, Primitive Data Types, Identifiers, Keywords, Literals, Operators, Expressions Precedence Rules and Associativity, Primitive Type Conversion and Casting flow of Control. Flow of Control: Conditional Statement Loops, Branching Mechanism.

Unit II

Array: One –Dimensional, Two-Dimensional Arrays,
Classes and Objects: Classes, Objects, Difference between Objects and Classes,
Class Declaration in Java, Class Body, Creating Objects, Declaring an Object
Instantiating
an Object, Initializing an Object, Methods, Method Types, Method Declaration,
Method Overloading, Constructors, Constructor Overloading, Class Variable and
Methods—Static Keyword.

Unit III

Inheritance and Polymorphism: Inheritance Introduction, types, Overriding Method,
super Keyword, final Keyword, Abstract Class, Interfaces. Packages: Creating

Packages, Using Packages, Access Protection, Exception Handling: Introduction, Exception Types, Exception Handling Techniques: try...catch, throw Keyword, throws, finally Block

Unit IV

Multithreading in java: Introduction, thread life cycle and methods, Runnable interface, Thread Synchronization, Thread Priority, Communication between threads
Collection Framework: overview, The Collection Interface: List, Set, Sorted Set, Map (Hash maps) Interface, The Collection Classes: Array List, LinkedList, HashSet, Tree Set, Accessing a Collection via an Iterator.

Textbooks:

1. Y Daniel Liang, Introduction to Java Programming (Comprehensive Version), Seventh Edition, Pearson.
2. Sachin Malhotra, Saurabh Chaudhary, Programming in Java, Oxford University Press.
3. Doug Lowe, Joel Murach, Andrea Steelman, Murach's Beginning Java 2, SPD.
4. Herbert Schild, The Complete Reference, Java 2 (Fourth Edition), TMH.

References:

1. Horstmann, Cornell, Core Java Volume-I Fundamentals, Eight Edition, Pearson Education.
2. D. S. Malik, Java Programming, Cengage Learning.

Weblink References:

1. A Review on Java Programming Language Desiree D. Martinez, Axl Heart P. Remegio, Darllaine R. Lincopinis
https://www.researchgate.net/publication/371166744_A_Review_on_Java_Programming_Language
2. Core Java : An Object Oriented Language Ananya Anikesh Department of Information & Technology Engineering Dronacharya College Of Engineering, Khentawas, Gurgaon.
https://ijirt.org/master/publishedpaper/IJIRT143039_PAPER
3. Exception Handling: A Field Study in Java and .NET Bruno Cabral, Paulo Marques CISUC, Department of Informatics Engineering, University of Coimbra, Portugal {bcabral, pmarques}@dei.uc.pt
file:///C:/Users/Administrator/Downloads/Exception_Handling_A_Field_Study_in_Java_and_NET.pdf

Course Articulation Matrix:

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	1	1	1	1	1	1	1	1
CO2	3	2	3	3	1	1	1	1	1	1
CO3	3	3	3	3	1	1	1	1	1	1
CO4	3	2	1	1	2	1	1	1	1	1
Weighted Average	3	2.25	2	2	1.25	1	1	1	1	1

HC PROFESSIONAL COMMUNICATION 3:1:0

Total: 40 hours

Course Objectives:

- Develop and refine verbal and written communication skills tailored for diverse Professional environments and audiences.
- Recognize and practice essential business etiquette to build strong Professional relationships and a positive workplace culture.
- Explore and utilize various technological tools to enhance the effectiveness and Visual appeal of presentations.
- Formulate and practice effective responses to common interview questions to improve performance in job interviews.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Demonstrate the ability to utilize various digital communication tools effectively, enhancing professional interactions and collaboration in a mobile world.

CO2: Exhibit effective interpersonal communication and teamwork strategies, applying business etiquette to foster productive relationships in a professional environment.

CO3: Successfully plan, create, and deliver presentations that incorporate technology and effectively engage the audience.

CO4: Produce a professional resume and effectively prepare for and participate in job interviews, demonstrating strategies for successful outcomes.

Unit I

Professional Communication in a Digital, Social, Mobile World- Understanding Why Communication Matters, communicating as a Professional, Exploring the Communication Process, Using Technology to Improve Communication.

Unit II

Collaboration, Interpersonal Communication, and Business Etiquette - Communicating Effectively in Teams, Making Meetings More Productive, Improving Listening Skills, Improving Nonverbal Communication Skills, Developing Business Etiquette, Drafting effective Emails.

Unit III

Developing Presentation- Planning a presentation, crafting presentation content, Delivering a presentation, Incorporating Technology in presentations.

Unit IV

Planning and Preparing Resume, Understanding the Interviewing Process, preparing for a Job Interview, Group Discussion, Interviewing for Success, Following Up after an Interview.

References:

1. Bovee et al, Business Communication Today, 15th Edition Pearson, 2021.
<https://www.pearsonhighered.com/assets/preface/0/1/3/5/0135891809.pdf>
2. Lehman, Dufrene, Sinha, BCOM, Business Communication, Cengage Learning.

Web link References:

1. Ana Cuic Tankovic, [et.al.](#), Measuring the importance of communication skills in tourism, Taylor & Francis Online, 2023.
<https://www.tandfonline.com/doi/full/10.1080/1331677X.2022.2077790>
2. Communicating effectively, Queensland Government, 2022.
<https://www.business.qld.gov.au/running-business/marketing-sales/sales/communicating-effectively>
3. George BUCĂȚA, THE ROLE OF COMMUNICATION IN ENHANCING WORK EFFECTIVENESS OF AN ORGANIZATION, Land Forces Academy Review Vol. XXII, No 1(85).
https://www.researchgate.net/publication/316360042_The_Role_of_Communication_in_Enhancing_Work_Effectiveness_of_an_Organization

Course Articulation Matrix:

PO 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	1	1	2	1	1	3	1	1
CO 2	1	2	3	1	1	1	1	2	1	1
CO 3	1	1	2	1	3	1	1	3	1	1
CO 4	1	2	2	1	1	1	1	3	1	1
Weighted Average	1.25	1.25	2	1	1.75	1	1	2.75	1	1

HC MACHINE LEARNING WITH PYTHON 3:0:1

Total: 45 hours

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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Identify the need for Machine Learning using Python, appropriate data frames and its operations.

CO2: Build and validate linear regression models

CO3: Understand different classification techniques and build classification models.

CO4: 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 PragmaticBookshelf,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 Vanderplas, O'Reilly Publishers, 1st Edition.
5. Hands-On Machine Learning with Scikit-Learn and Tensor Flow Concepts, Tools, and Techniques to Build Intelligent Systems, Aurelien Geron, O'Reilly Publisher, I edition,2017.

Weblink References:

1. Research on Machine Learning in Python: Main Developments and Technology Trends in DS, ML, and AL
<https://www.researchgate.net/publication/359418005>
[Research on Machine Learning in Python Main Developments and Technology Trends in DS ML and AL/link/623b1ea53818892e0a6bb876/download?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InB1YmxpY2F0aW9uIiwicGFnZSI6InB1YmxpY2F0aW9uIn19](https://www.researchgate.net/publication/359418005/abstract)
2. Critical review of machine learning integration with augmented reality for discrete manufacturing
<https://www.researchgate.net/publication/358279649> Critical review of machine learning integration with augmented reality for discrete manufacturing
3. Machine learning : Algorithms, real-world Applications and Research Directions
<https://link.springer.com/article/10.1007/s42979-021-00592-x>

Course articulation matrix:

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

HC ADVANCED COMPUTER NETWORKS 3:1:0
Total: 40 hours

Objectives:

- To understand fundamentals of Network topologies, 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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: To employ the mechanism of Network topology, Reference models and TCP/IP.

CO2: To understand the role of Transport Layer in computer networks.

CO3: Employ the techniques of TCP/IP.

CO4: Comprehend the internal working mechanism of IP Security.

Unit I: Introduction

Uses of Computer Network, Topology & Types of Topologies, types of networks (LAN, MAN, WAN), Concept of Intranet, Types of Communications (Asynchronous and Synchronous), Modes of Communications (simplex, half duplex, full duplex), Networking models, ISO-OSI Reference Model, Design issues of the layers, Internet Model (TCP/IP), Networking Devices- Hubs, Switches, Bridges, Routers, Gateways, NICs (Network Interface Card).

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 Hassanand Raj Jain, IST Edition, PHI Learning.
3. Network Security Essentials: Applications and Standards, William Stallings, 4th Edition, Prentice Hall

Weblink References:

1. Cooperative Game-Based Resource Allocation Scheme for Heterogeneous Networks with eICIC Technology, Sungwook Kim, Hindawi Journal of Computer Networks and Communications Volume 2023, Article ID 5526441, 14 pages.
<https://www.hindawi.com/journals/jcnc/2023/5526441/>
2. An Optimized and Energy-Efficient Ad-Hoc On-Demand Distance Vector Routing Protocol Based on Dynamic Forwarding Probability (AODVI) Hailu Gizachew Yirga, Gizatie Desalegn Taye, Hindawi Journal of Computer Networks and Communications Volume 2022, Article ID 5750767, 13 pages
<https://www.hindawi.com/journals/jcnc/2022/5750767/>
3. Zigbee Wireless Sensor Networks: Performance Study in an Apartment-Based Indoor Environment, Biswajit Kumar Dash, Jun Peng, Hindawi Mathematical Problems in Engineering
<https://www.hindawi.com/journals/jcnc/2022/2144702/>
4. <https://www.pearsonhighered.com/assets/samplechapter/0/7/8/9/0789732548.pdf>

Course articulation matrix:

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO										
CO1	3	2	2	2	2	1	1	1	1	2
CO2	3	2	2	2	2	1	1	1	1	2
CO3	2	2	2	2	1	2	1	1	1	2
CO4	3	3	3	2	2	2	1	1	2	2
Weighted Average	3	2.25	2.5	2.5	2.25	1	-	0.5	1.75	1

HC**WEB TECHNOLOGIES****3:0:1**

Total: 45 hours

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 PHP web database programming, XML data handling, and JSON framework integration effectively.

Course outcomes:

At the end of the course the students will be able to:

CO1: Develop an ability to implement HTML5 pages using fundamental tags.

CO2: Able to develop style sheet using CSS for a given problem.

CO3: Able to extend JavaScript to validate a form with event handler for a given problem.

CO4: Understand web database programming, XML storage, and JSON framework utilization.

Unit I

Introduction to Internet, WWW, Web Browsers, and Web Servers, URLs, MIME, HTTP, Security. Fundamentals of HTML: Understanding the Elements, Describing the datatypes, working with text, Organizing text in HTML, working with links & URLs, Creating tables, Working with Images, Colors, and Canvas, Working with forms.

Unit II

Overview of CSS, Background color and gradient, 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

Overview of JavaScript, JavaScript functions, 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, Image maps.

Unit IV

Web Database programming using PHP, Storing and extracting XML Documents from Database, Introduction to JSON Framework, Introduction to JSON: Syntax, Data Types,

Schema, Uses, Examples, Difference between JSON and JavaScript.

Textbooks:

1. HTML 5 Black Book (Covers CSS3, JavaScript, XML, XHTML, AJAX, PHP, jQuery) – DT Editorial Services, 2nd Edition – 2016, Dreamtech Press.
2. Internet and World Wide Web: How to Program - Paul Deitel, Harvey Deitel, Abbey Deitel, 5th Edition - 2018, Pearson Education.
3. Fundamentals of Database Systems- Elmasri, Navathe, 7th Edition 2016, Pearson Education.

References:

1. HTML & CSS: The Complete Reference - Thomas Powell, 5th Edition – 2015, McGrawHill Education.
2. Introduction to JavaScript Object Notation by Lindsay Bassett Released August 2015 Publisher(s): O'Reilly Media, Inc. ISBN: 9781491929483.

Web link References:

1. When E-learning Meets Web 3.0: Applications and Challenges
Link- <https://ieeexplore.ieee.org/document/10107827>
Published in: 2023 IEEE 12th International Conference on Educational and Information Technology (ICEIT)
2. Web Mining: Opportunities, Challenges, and Future Directions
Link- <https://ieeexplore.ieee.org/document/10205913>
Published in: 2023 3rd International Conference on Intelligent Technologies (CONIT)
3. Social Media Login Authentication with Unity and Web Sockets
Link- <https://ieeexplore.ieee.org/document/10346940>
Published in: 2023 International Conference on Computer Science and Emerging Technologies (CSET)
4. <https://www.json.org/json-en.html>

Course Articulation Matrix:

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO										
CO1	3	2	1	2	2	1	1	2	2	1
CO2	3	3	2	2	3	1	1	2	2	1
CO3	3	3	3	3	3	1	1	2	3	2
CO4	3	3	3	3	3	2	1	2	3	2
Weighted Average	3	2.75	2.25	2.5	2.75	1.25	1	2	2.5	1.5

HC**MAJOR PROJECT****0:2:6**

Total: 50 hours

Objectives:

- To offer students a glimpse into real-world problems and help them to learn how to apply the tools and techniques they have learned in their respective courses.
- To provide students with practical industry experience through internships, allowing them to understand the dynamics of a professional work environment.
- To help students develop openness to new ideas in computer science and create precise specifications for the execution of their project ideas.
- To promote the development of team-working skills, problem-solving abilities, and effective presentation skills among students, both in their projects and internships.

Course outcomes:

At the end of the course the students will be able to:

CO1: Understand emerging trends in new technologies by conducting surveys of various literatures in the preferred field of study, and by gaining exposure to industry practices through internships.

CO2: Develop real-time projects by comparing several existing solutions for a research challenge and applying the skills learned during the project work/internship.

CO3: Demonstrate the ability to work in teams, manage the process of building the project within the stipulated time and also integrate feedback from industry mentors.

CO4: Report and present the findings of the research study/project and the internship experience, highlighting the application of learned tools and techniques.

Students are required to implement various kinds of problems using Java-based frameworks, Python, PHP, MySQL, cloud tools, IoT tools, Dot NET, CASE tools, open-source tools, mobile application-oriented tools, and data mining/machine learning tools and techniques.

Course Articulation Matrix:

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	1	2	1	2	1	2	2	3
CO2	3	3	3	2	2	1	1	2	3	2
CO3	2	3	3	2	2	2	1	3	3	2
CO4	2	2	3	2	2	2	2	3	3	2
Weighted Average	2.5	2.5	2.5	2	1.75	1.75	1.5	2.5	2.75	2.25

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

Total: 40 hours

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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Express the modern view of AI and its foundation.

CO2: Illustrate Search Strategies with algorithms and Problems.

CO3: Implement Proportional logic and apply inference rules.

CO4: 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.

References:

1. Artificial Intelligence, E. Rich and K. Knight, 3rd Edition, TMH.
2. Artificial Intelligence A Modern Approach, S. Russell and P. Norvig, 3rd Edition, Pearson Education.
3. Introduction to Artificial Intelligence, Eugene Charniak and Drew McDermott, 2nd Edition, Pearson Education.
4. Artificial Intelligence Structures and Strategies for Complex

ProblemSolving, George FLuger, 4th Edition, Pearson Education.

5. Artificial Intelligence: A New Synthesis, N.L. Nilsson, Morgan Kaufmann.

Weblink References:

1. <https://www.ijrti.org/papers/IJRTI2304061.pdf>
2. <https://www.ijraset.com/research-paper/artificial-intelligence>
3. https://www.researchgate.net/publication/353118298_Artificial_intelligence_in_information_systems_research_A_systematic_literature_review_and_research_agenda

Course articulation matrix:

PO 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 Average	3	3	3	3	3	3	2.25	2	2.5	3

SC**DATABASE SYSTEMS****3:0:1**

Total: 45 hours

Objectives:

- Gain an in-depth understanding of the relational data model and advanced SQL operations.
- Learn and implement advanced normalization techniques to design relational databases.
- Understand the principles and technologies behind Big Data and NOSQL databases
- Learn about the various methods and challenges associated with securing databases.

Course outcomes:

At the end of the course the students will be able to:

CO1: Demonstrate the ability to design, query, and manage relational databases using SQL.

CO2: Apply normalization techniques to organize data in relational databases, reducing redundancy and improving data integrity.

CO3: Utilize Big Data tools and NOSQL databases to manage and analyze large datasets, demonstrating familiarity with Hadoop, MongoDB.

CO4: Implement and manage security protocols in database environments, addressing potential threats and ensuring data protection.

Unit I: The Relational Data Model and SQL

The Relational Data Model and Relational Database Constraints, Relational Model Concepts, Relational Model Constraints and Relational Database Schemas, Update Operations, Transactions, and Dealing with Constraint Violations.

Basic SQL, SQL Data Definition and Data Types, Specifying Constraints in SQL, Basic Retrieval Queries in SQL, INSERT, DELETE, and UPDATE Statements in SQL, Additional Features of SQL.

Unit II: Database Design Theory and Normalization

Basics of Functional Dependencies and Normalization for Relational Databases, Informal Design Guidelines for Relation Schemas, Functional Dependencies, Normal Forms Based on Primary Keys, General Definitions of Second and Third Normal Forms, Boyce-Codd Normal Form, Multi valued Dependency and Fourth Normal Form, Join Dependencies and Fifth Normal Form.

Unit III: Big Data Technologies and NOSQL Databases

Big Data Technologies Based on MapReduce and Hadoop, What Is Big Data? Introduction to MapReduce and Hadoop, Hadoop Distributed File System (HDFS) MapReduce: Additional Details.

NOSQL Databases and Big Data Storage Systems, Introduction to NOSQL

Systems, The CAP Theorem, Document-Based NOSQL Systems and MongoDB NOSQL Key-Value Stores, Column-Based or Wide Column NOSQL Systems NOSQL Graph Databases and Neo4j.

Unit IV: Database Security

Database Security, Introduction to Database Security Issues, Discretionary Access Control Based on Granting and Revoking Privileges, Mandatory Access Control and Role-Based Access Control for Multilevel Security, Introduction to Statistical Database Security, Introduction to Flow Control, Encryption and Public Key Infrastructures, Privacy Issues and Preservation, Challenges to Maintaining Database Security.

Textbook:

1. Fundamentals of Database Systems, Ramez Elmasri, Sham kant B. Navathe, 7e.

Reference Books:

1. Database System Concepts, Abraham Silberschatz, Henry F. Korth, S. Sudarshan, McGraw- Hill Education, 7e.
2. Principles of Database and Knowledge-Base Systems, Jeffrey D. Ullman.
3. DBMS, Prof. S. Nandagopalan, S. Chand Publishing, 7e.

Web link References:

1. SQL and NoSQL Database Software Architecture Performance Analysis and Assessments—A Systematic Literature Review, Wisal Khan, Teerath Kumar, Cheng Zhang, Kislay Raj, Arunabha M. Roy, Bin Luo.
<https://www.mdpi.com/2504-2289/7/2/97>.
2. Advancing database security: a comprehensive systematic mapping study of potential challenges, Asif Iqbal, Siffat Ullah Khan, Mahmood Niazi, Mamoon Humayun, Najm Us Sama, Arif Ali Khan, Aakash Ahmad.
<https://link.springer.com/content/pdf/10.1007/s11276-023-03436-z.pdf>

Course Articulation Matrix:

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO										
CO1	3	3	2	2	3	1	1	1	2	3
CO2	3	3	2	2	3	1	1	-	3	2
CO3	3	3	3	2	3	1	1	-	2	2
CO4	2	3	3	3	2	3	1	1	3	2
Weighted Average	2.75	3	2.5	2.25	2.75	1.5	1	1	2.5	2.25

SC**CLOUD SECURITY AND PRIVACY****4:0:0**

Total: 40 hours

Objectives:

- Understand the foundational concepts and models of cloud computing.
- Gain knowledge of the various aspects of data security in the cloud, including mitigation strategies, access control, and incident response.
- Explore privacy concerns related to cloud computing.
- Examine advanced security solutions available as services in the cloud.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Explain the evolution of cloud computing, identify different cloud service delivery and deployment models, and discuss the primary drivers and barriers to cloud adoption in enterprises.

CO2: Assess and implement data security measures in cloud environments, manage security incidents, and understand the distribution of security responsibilities between CSPs and customers.

CO3: Identify privacy risks associated with cloud services, apply privacy protection strategies, and understand how different cloud service providers address privacy and compliance issues.

CO4: Evaluate and implement advanced cloud security services, recognize potential threats associated with CSPs, and anticipate future developments in cloud security.

UNIT I:

The Evolution of Cloud Computing, Cloud Computing defined, SPI framework for cloud computing, The Cloud Services Delivery Model, Cloud Deployment Models, Key Drivers to Adopting the Cloud, The Impact of Cloud Computing on Users, Barriers to Cloud Computing Adoption in the Enterprise.

UNIT II:

Aspects of Data Security, Data Security Mitigation, Provider Data and Its Security, Security Management in the Cloud, Availability Management, Access Control, Intrusion Detection and Incident Response, Customer Versus CSP Responsibilities.

UNIT III:

Privacy, What Is the Data Life Cycle?, Key Privacy Concerns in the Cloud, Protecting Privacy, Changes to Privacy Risk Management and Compliance in Relation to Cloud Computing, Examples of Cloud Service Providers, Amazon Web Services (IaaS), Google (SaaS, PaaS), Microsoft Azure Services Platform (PaaS),

Sun Open Cloud Platform, Approaches to an Open stack Private Cloud.

UNIT IV:

Security-As-a-[Cloud] Service, Email Filtering, Web Content Filtering, Potential Threats of Using CSPs, The Future of Security in Cloud Computing.

References:

1. Cloud Security and Privacy An Enterprise Perspective on Risks and Compliance, Tim Mather, Subra Kumaraswamy, Shahed Latif, O'Reilly Media.
2. Cloud Computing: Principles and Paradigms – Rajkumar Buyya, James Broberg, Andrzej M Goscinski, Wiley publication.
3. Cloud Computing: A Practical Approach - Toby Velte, Anthony Velte, McGraw-Hill Osborne Media.
4. Cloud Application Architectures: Building Applications and Infrastructure in the Cloud - George Reese, O'Reilly Publication.
5. Cloud Computing Explained: Implementation Handbook for Enterprises - John Rhoton, Recursive Press.
6. OpenStack: The Path to Cloud, Considerations and recommendations for businesses adopting cloud technology, openstack.org

Web link References:

1. Security and Privacy in Cloud Computing: Technical Review by Yunusa Simpa Abdulsalam and Mustapha Hedabou. <https://www.mdpi.com/1999-5903/14/1/11>
2. A Survey on Cloud Security Issues and Techniques, Garima Gupta, P.R.Laxmi and Shubhanjali Sharma. <https://arxiv.org/pdf/1403.5627>

Course Articulation Matrix:

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO										
CO1	2	2	2	1	2	2	1	1	1	1
CO2	2	3	3	2	2	2	2	2	2	2
CO3	2	2	3	2	2	2	2	2	2	2
CO4	2	3	3	3	2	2	2	2	2	2
Weighted Average	2	2.5	2.75	2	2	2	1.75	1.75	1.75	1.75

SC

NETWORK SECURITY

3:1:0

Total: 40 hours

Objectives:

- Understand the fundamentals of network security, including threats, Vulnerabilities, and attacks.
- Learn about DES.
- Study the importance of RSA.
- Recognize emerging trends and challenges in network security.

Course outcomes:

At the end of the course the students will be able to:

CO1: Understand the Fundamental Concepts and Principles of Network Security, including Threats, Vulnerabilities, and Defense Mechanisms.

CO2: Analyze network security requirements and design appropriate security Architectures and policies.

CO3: Understand the Applications of Cryptographic Hash Functions.

CO4: Evaluate and assess network security risks and vulnerabilities in the Cloud.

Unit I

Introduction: Computer Security Concepts-Definition, Examples, Challenges, Security Attacks- Passive Attacks, Active Attacks, Security Services- Authentication, Access Control, Data Confidentiality, Data Integrity, Nonrepudiation, Availability Service, Security Mechanisms.

Unit II

Classical Encryption Techniques-Symmetric Cipher Model, Substitution Techniques, Transposition Techniques, Steganography. The DES, The strength of DES, Block Cipher Design Principles.

Unit III

Principles of Public-key cryptosystems, RSA, Diffie Hellman key exchange, Applications of Cryptographic Hash Functions, Two simple Hash Functions.

Unit IV

Cloud Computing, Cloud Security Risks and counter measures, Data Protection in the cloud, Web security Considerations, Transport Layer Security, HTTPS.

Textbook:

1. Cryptography and Network Security-Principles and Practice, William Stallings, PEARSON, 7e.

Reference:

1. Cryptography and Network Security, Atul Kahate, Tata McGraw Hill.

Weblink References:

1. Yu Zhang, et.al., “A Survey of Secure Communications for Satellite Internet Based on Cryptography and Physical Layer Security”
<https://www.hindawi.com/journals/ietis/2023/5604802/>
2. V. Esther Jyothi, et.al., “Analysis of Cryptography Encryption for Network Security”
<https://iopscience.iop.org/article/10.1088/1757-899X/981/2/022028/meta>
3. Akanksha Arora, et.al., “Privacy Protection of Digital Images Using Watermarking and QR Code-based Visual Cryptography”
<https://www.hindawi.com/journals/am/2023/6945340/>

Course Articulation Matrix:

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

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

Total: 45 hours

Course Objectives:

- Introduce the students to Hadoop and concepts of Map Reduce.
- To understand the concepts of MongoDB
- To impart knowledge on statistical analysis of data
- To understand data Analysis using R.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Process Data with Hadoop.

CO2: Demonstrate MongoDB for flexible storage and retrieval of diverse data

CO3: Comprehend the methods of statistical analysis of data.

CO4: Demonstrate Data Analysis using R.

Unit I: Introduction to Hadoop and MAPREDUCE Programming

Getting an overview of Big Data, Introducing Hadoop, Why Hadoop?, Why not RDBMS? RDBMS versus Hadoop, HDFS (Hadoop Distributed File System), Processing Data with Hadoop, Managing Resources and Applications with Hadoop YARN (Yet Another Resource Negotiator), Interacting with Hadoop Ecosystem.

Introduction to MAPREDUCE Programming: Mapper, Reducer, Combiner, Partitioner, Searching, Sorting, Compression.

Unit II: Introduction to Mongo DB

Introduction to MongoDB, Terms Used in RDBMS and MongoDB, Managing and administering MongoDB – MongoDB administering commands and methods, drop Db command, MongoDB query, Write operation command and methods, Data Types in MongoDB, MongoDB CRUD operation, Create index and index types, Introduction to MongoDB aggregation and Sharding.

Unit III : Statistical Analysis of data

Types of data for statistical analysis, Basic statistical measures, nominal distribution, Correlation analysis, Regression analysis, ANOVA.

Unit IV: Introduction to R

Introduction to R- Data types of R, Data structures of R, Libraries in R, Graphics using R – Exploratory data analysis.

Textbooks:

1. Big Data and Analytics, 2ed, Seema Acharya, Subhashini Chellappan, Wiley.
2. MongoDB complete Guide, Manu Sharma, bpb
3. R programming An approach to Data Analytics, Dr. G. Sudhmathy & Dr. C. Jothi Venkateswaran, MJP publishers.

Reference:

1. Big Data Analytics, M. Vijayalakshmi, Radha Shankarmani, Wiley.

Weblink References:

1. A Distributed Framework for Predictive Analytics Using Big Data and MapReduce Parallel Programming, P. Natesan, 1 V. E. Sathishkumar, 2 Sandeep Kumar Mathivanan, HindawiMathematical Problems in EngineeringVolume 2023, Article ID 6048891, 10 pages,
<https://onlinelibrary.wiley.com/doi/epdf/10.1155/2023/6048891>
2. Optimal Management of Computer Network Security in the Era of Big Data, Hindawi Journal of Computer Networks and Communications Volume 2022, Article ID 9049420, 10 page
<https://onlinelibrary.wiley.com/doi/epdf/10.1155/2022/9049420>
3. Research Article on Rating Batters in Test Cricket, Hindawi Mathematical
4. Problems in Engineering Volume 2022, Article ID 9215635, 10 page,
<https://onlinelibrary.wiley.com/doi/epdf/10.1155/2022/9215635>

Course articulation matrix:

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	2	1	2	1	-	1	2	1
CO2	3	2	3	2	2	1	-	-	1	1
CO3	3	2	2	2	2	-	-	1	1	1
CO4	3	2	3	3	3	2	-	-	3	1
Weighted Average	3	2.25	2.5	2.5	2.25	1	-	0.5	1.75	1

SC

THEORY OF LANGUAGES**3:1:0**

Total: 40 hours

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.

Course outcomes:

At the end of the course the students will be able to:

CO1: Demonstrate a fundamental understanding of core concepts in automata theory and formal languages.

CO2: Design and Construct grammars and automata (recognizers) for various classes of languages.

CO3: Analyze different formal language classes and evaluate language membership properties.

CO4: 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 contra positive, 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. Normal Forms for Context-free grammars. Pushdown Automata: Definition, Languages of a PDA, Equivalence of PDAs and CFGs, Deterministic Pushdown Automata.

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.

Textbook:

1. Introduction to Automata Theory, Languages and Computation, Hopcroft J. E and Ullman, J.D, Narosa Publishing House, 3e.

References:

1. Introduction to Languages and Theory of Computation, John C Martin, TMH Publication, 3e.
2. Elements of Automata Theory, Peter J. Cameron, Cambridge University Press, 2e.

Web link References:

1. Simulation of Turing Machine, Ajinkya Ghusarkar, Girish Nikam, Atharva Thokal, Sourabh Shintre, <https://www.irjet.net/archives/V10/i1/IRJET-V10I149.pdf>.
2. Turing Machine and the Conceptual Problems of Computational Theory, Edward E. Ogheneovo, <https://www.researchinventy.com/papers/v4i4/G044053060.pdf>.

Course Articulation Matrix:

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO										
CO1	2	3	3	3	1	1	1	1	2	2
CO2	2	3	3	3	1	1	1	1	1	2
CO3	2	3	3	3	1	1	1	1	1	2
CO4	2	3	3	3	1	1	1	1	1	2
Weighted Average	2	3	3	3	1	1	1	1	1.25	2

SC

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

Total: 40 hours

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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Apply axioms and theorems to describe events and compute probabilities also Identify the types of random variables and calculate relevant probabilities.

CO2: Analyse the different Techniques in Continuous Probability Distribution.

CO3: Describe an appropriate statistical model for the given data and compute Population parameters using appropriate estimators.

CO4: 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:

T joint Distributions, Independent random variables, Functions of random Variables. Mathematical Expectation: Definition, Functions of Random variables. The variance and Standard Deviation, Moments, Moment Generating Functions, Covariance, Correlation Coefficient.

Unit III:

Continuous Probability distribution and Distributions functions: Exponential, Normal, Uniform, Concepts of Chi square.

Unit IV:

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. 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.

Textbooks:

1. Fundamentals of Statistics-SC Gupta and VK Kapoor.
2. Fundamentals of Statistics- SC Gupta.
3. Probability and Statistics with Reliability, Queuing and Computer Applications-Jusir 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 CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	3	3	2	3	1	1	1	2	2
CO2	2	3	3	3	3	-	1	1	2	2
CO3	2	3	3	3	3	1	1	1	1	2
CO4	2	3	3	3	3	-	1	1	2	2
Weighted Average	2	3	3	2.75	3	1	1	1	1.75	2

SC

INTERNET OF THINGS

3:1:0

Total: 40 hours

Objectives:

- Understand the concept of the Internet of Things (IoT) and its role in connecting everyday objects to the internet.
- Explore IoT architectures, including sensors, actuators, communication protocols, and cloud computing.
- Learn about IoT applications across various industries, such as smart homes, healthcare, agriculture, and industrial automation.
- Recognize the challenges and future trends in IoT, such as interoperability,
- scalability, and edge computing.

Course outcomes:

At the end of the course the students will be able to:

CO1: Understand IoT fundamentals, design, enabling technologies, and key communication protocols."

CO2: Understand IoT architecture, smart objects, and sensor networks for connectivity.

CO3: Design IoT platforms through systematic methodology and comprehensive application development.

CO4: Apply IoT solutions to enhance efficiency across diverse application domains.

Unit 1

Introduction to IoT: Definition and Characteristics, Physical Design of IoT, Logical Design of IoT, IoT Enabling Technologies - Wireless Sensor Networks, Cloud Computing, Big Data Analytics, Communication Protocols, Embedded Systems.

Unit 2:

Smart Objects & IoT Levels - Smart Objects: The "Things" in IoT, Sensors, Actuators, and Smart Objects, Sensor Networks, Connecting Smart Objects, IoT Level-1, IoT Level-2, IoT Level-3, IoT Level-4, IoT Level-5, IoT Level-6.

Unit 3:

IoT Platforms Design Methodology- Introduction, IoT Design Methodology, Step 1: Purpose & Requirements Specification, Step 2: Process Specification, Step 3: Domain Model Specification, Step 4: Information Model Specification, Step 5: Service Specifications, Step 6: IoT Level Specification, Step 7: Functional View Specification,

Step 8: Operational View Specification, Step 9: Device & Component Integration, Step 10: Application Development.

Unit 4

Domain Specific IoTs: Environment- Weather Monitoring, Air Pollution Monitoring, Noise Pollution Monitoring, Forest Fire Detection, River Floods Detection. Health & Lifestyle- Health & Fitness Monitoring, Wearable Electronics.

Textbooks:

1. Arshdeep Bahga, Vijay Madisetti, Internet of Things: A Hands-on Approach, 2015, 1st Edition, Universities Press.
2. Olivier Hersent, David Boswarthick, Omar Elloumi, The Internet of Things–Key applications and Protocols, 2012, Wiley Publication.
3. Honbo Zhou, The Internet of Things in the Cloud: A Middleware Perspective, 2012, CRC Press.

References:

1. Dieter Uckelmann; Mark Harrison; Florian Michahelles Architecting the Internet of Things, 2011, Springer.
2. Internet of Things: Architecture and Design Principles-Raj Kamal, 1st Edition, McGraw Hill Education.

Weblink References:

1. Yinghua Shen, et.al., “Exploring the Structure of IoT Data: A Symbolic Analysis Perspective”
<https://www.hindawi.com/journals/wcmc/2023/3267820/>
2. Muruga perumal Krishnamoorthy, et.al., “A Design and Development of the Smart Forest Alert Monitoring System Using IoT”
<https://www.hindawi.com/journals/js/2023/8063524/>
3. Angeliki Boltsi, et.al., “Digital Tools, Technologies, and Learning Methodologies for Education 4.0 Frameworks: A STEM Oriented Survey”
<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10401932>

Course Articulation Matrix:

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO										
CO1	3	2	2	1	2	1	1	1	1	2
CO2	3	2	3	1	3	1	1	1	2	2
CO3	3	3	3	2	3	2	2	1	3	2
CO4	3	3	3	3	3	2	2	1	3	3
Weighted Average	3	2.5	2.75	1.75	2.75	1.5	1.5	1	2.25	2.25

SC MOBILE APPLICATION DEVELOPMENT WITH ANDROID 3:0:1

Total: 45 hours

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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Build sample android application.

CO2: Develop user interfaces for android applications.

CO3: Develop android applications to share data between different applications.

CO4: 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 Android2 Application Development”, RetoMeier, Wiley India.
3. “Beginning Android”, Mark Murphy, Wiley India.
4. “Pro Android”, Sayed Y Hashimi and Satya Komatineni, Wiley India.

Weblink References:

1. Facial Emotion Recognition for Mobile Devices: A Practical Review
Link- <https://ieeexplore.ieee.org/document/10414102>
Published in: IEEE Access (Volume: 12) (2023)
2. Protecting Android Devices From Malware Attacks: A State-of-the-Art Report of Concepts, Modern Learning Models and Challenges
Link- <https://ieeexplore.ieee.org/document/10274970>
Published in: IEEE Access (Volume: 11) (2023)
3. Job and Internship Assistance Application
Link- <https://ieeexplore.ieee.org/document/10150490>
Published in: 2023 International Conference on Disruptive Technologies (ICDT)
4. Food Wastage Management Application using Android Studio
Link- <https://ieeexplore.ieee.org/document/10140489>
Published in: 2023 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC)
5. Android Dashboard App Development for Autonomous Vehicles Using Fire Base
Link- <https://ieeexplore.ieee.org/document/10333326>
Published in: 2023 7th International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS)

Course articulation matrix:

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	2	3	2	2	1	1	2	2
CO2	3	3	3	3	3	2	1	2	2	2
CO3	3	3	3	3	2	3	1	2	3	3
CO4	3	3	3	3	3	2	1	2	3	3
Weighted Average	3	3	2.75	3	2.50	2.25	1	1.75	2.5	2.5

SC

DATA INDEXING TECHNIQUES**3:0:1**

Total: 45 hours

Objectives:

- Learn the basics of data indexing and why it is important for efficient data Retrieval using ADT.
- Explore different types of data indexing techniques, such as B-trees and hash indexing.
- Understand how to choose the right indexing technique based on the type of data structures binary tree, AVL tree.
- Study the impact of indexing using hashing.

Course outcomes:

At the end of the course the students will be able to:

CO1: Understand the fundamental concepts and principles of data indexing using ADT.

CO2: Understanding Priority queue using heap and its applications.

CO3: Implement different data indexing structures such as Binary tree, Binary search tree, AVL and B+ tree

CO4: Evaluate the performance and efficiency of various indexing techniques using hashing

Unit I

Abstract Data type, List ADT: simple array implementation and simple linked list implementation, Vector and list in STL, Iterators, Implementation of vector, Implementation of list.

Unit II

Priority queue (Heap): Simple Implementation, Binary Heap, Structure property, Heap order property, Basic heap operations, Application of priority queue.

Unit III

Review on Binary tree: Implementation and example of expression tree; Binary Search tree: insertion and deletion operations, AVL tree: single rotation and double rotation, B+ tree.

Unit IV

Hashing, Hash Function, Static hashing: Division method, multiplication method, multiply shift method, Random hashing: Linear Probing, Double Hashing, Rehashing, Applications.

Textbooks:

1. "Introduction to Algorithms" by Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, and Clifford Stein.

2. "Data Structures and Algorithm Analysis in C++" by Mark Allen Weiss.

Reference:

1. "Algorithms in C++" by Robert Sedgewick.

Weblink References:

1. <https://www.prepbytes.com/blog/data-structure/abstract-data-type-adt-in-data-structure/#:~:text=List%20ADT,the%20address%20of%20another%20block.>
2. <https://ebooks.inflibnet.ac.in/csp01/chapter/priority-queue-and-heaps/>
3. <https://www.scholarhat.com/tutorial/datastructures/hashing-in-data-structures>
4. <https://www.appsealing.com/hashing-algorithms/>

Course Articulation Matrix:

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

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

Total: 45 hours

Objectives:

- Understand Fundamental Information Retrieval Concepts
- Explore Scoring and Ranking Techniques.
- Apply Text Classification Techniques.
- Analyze and Implement Clustering Algorithms.

Course outcomes:

At the end of the course the students will be able to:

CO1: Develop and Evaluate Inverted Indexes.

CO2: Implement and Assess Scoring Mechanisms.

CO3: Demonstrate proficiency in text classification.

CO4: Apply Clustering Techniques in information retrieval systems.

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: Text classification and naive bayes

The text classification problem, Naive bayes text classification, properties of Naïve 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.

Unit IV: Clustering

Flat Clustering - Clustering in IR, Problem statement, Evaluation of Clustering, K-means, Model Based Clustering; Hierarchical clustering- Hierarchical agglomerative clustering, Single link, complete link and group average

agglomerative clustering, Centroid clustering, Divisive clustering, cluster labelling.

Textbook:

1. Introduction to information Retrieval, Christopher D.Manning, Prabhakar Raghavan, Hinrich Schutze, Cambridge University Press, 1e.

References:

1. Information Retrieval: Algorithms and Heuristics, David A. Grossman and Ophir Frieder, , Springer, 2e.
2. Introduction to Data Mining by Pang-Ning Tan, Michael Steinbach, and Vipin Kumar, Pearson, 2e.

Web link References:

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>

Course Articulation Matrix:

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO										
CO1	3	3	2	2	3	1	1	2	2	1
CO2	3	3	2	2	3	1	1	2	3	1
CO3	3	3	2	3	3	1	1	2	3	1
CO4	3	3	3	2	3	1	1	2	3	1
Weighted Average	3	3	2.25	2.25	3	1	1	2	2.75	1

SC**DIGITAL FORENSICS****3:1:0**

Total: 40 hours

Objectives:

- To learn about the Cyber Crime and to Understand the concepts of open source tools
- To learn about Cyber Forensics and to identify and report the forensic on disk level
- To learn about Cyber Investigation and to Implement forensic concepts in network level
- To learn about Evidence Management and to Analyze Virtual machine forensic.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Outline the Cybercrime and its types and understand the concepts of various levels of forensics

CO2: Explore the Cyber Forensics Techniques and remembering the concepts of disk forensics.

CO3: Use the Cyber Investigation Techniques and Implement the concepts of Forensics in network.

CO4: Explore the Cyber Evidence Management Techniques and understand the concepts of forensics in devices.

UNIT I CYBER CRIME

Cyber Space – Cyber Crime – Criminal Behaviour – Jurisdictional Concerns - Jurisprudential Inconsistency– eCash Security – Prepaid Cards – Stored Values Cards – Mobile Payments – Internet Payment Services - Cyber stalking - Cyber extortion – Cyber terrorism - Cyber warfare –Cyber weapons -ATM frauds – Phreaking – Internet Gambling.

UNIT II CYBER FORENSICS

Hard disk –Disk characteristics - Disk imaging - Data Carving – Techniques - commercial piracy - soft liftin – Steganography – Network components - Port scans - Wireshark - pcap analysis - Trojans and Backdoors – Botnets - DoS– DDoS Attacks - Honey Pots – Malware – Virus and Worms.

UNIT III CYBER INVESTIGATION

Concepts of Investigation - cyber investigation, Network Investigation - Investigating audit logs - Investigating Web attacks -Investigating Computer Intrusions - Profiling – Cyber Criminal profiling – Stylometric Techniques – Warranted searches – Warrantless searches – Undercover Techniques.

UNIT IV EVIDENCE MANAGEMENT

Evidence – Digital Evidence - Types – physical evidence – Real evidence – Circumstantial evidence – network evidence - Evidence collection – Evidence Analysis - Contextual Information –Evidence Management – pre search activities – On Scene activities – Report Preparations.

Text Books:

1. Marjie T. Britz, “Computer Forensics and Cyber Crime”, Pearson, 2013.
2. Garima Tiwari, “Understanding Laws– Cyber Laws and Cyber Crimes”, Lexis Nexis, 2014.
3. Chuck Easttom, Jeff Taylor, “Computer Crime, Investigation, and the Law”, Course Technology, 2018.

Reference:

1. Eoghan Casey, “Digital Evidence and Computer Crime: Forensic Science, Computers, and the Internet”, Eoghan Casey, 2018.

Weblink References:

1. New Approaches to the Application of Digital Forensics in Cybersecurity: A Proposal, Kenneth Okereafor , Rania Djehaiche,
https://www.researchgate.net/profile/Kenneth-okereafor/publication/341279338_New_Approaches_to_the_Application_of_Digital_Forensics_in_Cybersecurity_A_Proposal/links/5eb7fd1c299b1287f782c45/New-Approaches-to-the-Application-of-Digital-Forensics-in-Cybersecurity-A-Proposal.pdf
2. A Review of Application Challenges of Digital Forensics,
<https://pdfs.semanticscholar.org/e659/24a8f67a86c310e059205ca9370c3b780b18.pdf>
3. Next-Generation Digital Forensic Readiness BYOD Framework,
[Md Iman Ali, Sukhkirandeep Kaur, https://onlinelibrary.wiley.com/doi/full/10.1155/2021/6664426](https://onlinelibrary.wiley.com/doi/full/10.1155/2021/6664426)

Course Articulation Matrix:

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	2	-	2	-	2	-	1	1	-
CO2	1	2	-	2	-	3	-	1	1	-
CO3	1	2	-	2	2	3	-	1	1	-
CO4	1	2	-	2	1	3	-	1	1	-
Weighted Average	1	2	0	2	0.75	2.75	0	1	1	0

SC

DIGITAL IMAGE PROCESSING**3:0:1**

Total: 45 hours

Objectives:

- Understand the fundamentals of digital image processing.
- Learn the different Image enhancement techniques.
- Understand the image enhancement and segmentation techniques.
- To teach techniques for image segmentation and boundary detection.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Understand the basic concepts of digital image processing.

CO2: Acquire various techniques employed for the enhancement of images using spatial domain

CO3: Learn different techniques employed for the enhancement of images using frequency domain.

CO4: Deploy various techniques of image segmentation.

Unit I:

Introduction and Digital Image Fundamentals Introduction to Digital Image Processing, The Origins of Digital Image Processing, Examples of Fields that use Digital Image Processing, Fundamental steps in Digital Image Processing, Components of Image Processing System, Elements of Visual Perception, Image Sampling and Quantization, Some Basic Relationships Between Pixels, Linear and Nonlinear Operations.

Unit II:

Image Enhancement in the Spatial Domain Some Basic Gray Level Transformations, Histogram Processing, Enhancement using Arithmetic/Logic Operations, Basics of Spatial Filtering, Smoothing Spatial Filters, Sharpening Spatial Filters.

Unit III:

Image Enhancement in the Frequency Domain Introduction to the Fourier Transform and the Frequency Domain, Smoothing Frequency Domain Filters, Sharpening Frequency Domain Filters, Homomorphic Filtering.

Unit IV:

Image Segmentation Detection of Discontinuities, Edge Linking and Boundary Detection, Thresholding, Region-based Segmentation, Segmentation by Morphological Watersheds.

Textbook:

1. Digital Image Processing – Rafael C. Gonzalez and Richard E. Woods, 2nd Edition, Pearson Education.

Weblink References:

1. Quantum Image Processing: Opportunities and Challenges, [Yue Ruan](#), [Xiling Xue](#), [Yuanxia Shen](#), HindawiMathematical Problems in EngineeringVolume 2021, Article ID 6671613, 8 page, <https://onlinelibrary.wiley.com/doi/epdf/10.1155/2021/6671613>
2. Identifying the Digital Camera from Natural Images Using Residual Noise and the Jensen–Shannon Divergence, [Francisco Rodríguez-Santos](#), [Ana L. Quintanar-Reséndiz](#), HindawiJournal of Electrical and Computer EngineeringVolume 2022, Article ID 1574024, 14 pages, <https://onlinelibrary.wiley.com/doi/epdf/10.1155/2022/1574024>
3. Digital Image Forgery Detection Using JPEG Features and Local Noise Discrepancies, [Bo Liu](#), [Chi-Man Pun](#), [Xiao-Chen Yuan](#)Hindawi Publishing CorporationThe Scientific World JournalVolume 2014, Article ID 230425, 12 pages, <https://onlinelibrary.wiley.com/doi/epdf/10.1155/2014/230425>

Course articulation matrix:

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO										
CO1	3	-	1	-	2	-	-	-	1	-
CO2	3	-	-	1	3	-	-	-	2	-
CO3	3	1	-	1	3	1	-	-	2	-
CO4	3	1	-	-	3	-	-	-	2	-
Weighted Average	3	0.5	0.25	0.5	2.75	0.25	-	-	1.75	-

SC

ADVANCED JAVA**3:0:1**

Total: 45 hours

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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Develop component-based Java software using JavaBeans.

CO2: Develop server-side programs in the form of servlets.

CO3: Implement Entity Java bean in stateless and stateful environment.

CO4: 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, 1st edition, McGraw Hill Education.
2. Core and Advanced Java, Black Book, Dreamtech Press.

Weblink References:

1. Author: Martinez, D., Remegio, A., Lincopinis,
 Title: A review on Java Programming Language
 Link: https://www.researchgate.net/publication/371166744_A_Review_on_Java_Programming_Language Year: 2023
2. Author: Ankur Gupta
 Title: Comparison in Java and Python: A Review Paper
 Link: <https://www.ijircst.org/DOC/13-comparison-in-java-and-python-a-review-paper.pdf>
3. Title: APPLICATION OF JAVA TECHNOLOGY IN INDUSTRIAL REAL TIME SYSTEM.
https://www.researchgate.net/publication/344839581_Application_of_Java_Technology_in_Industrial_Real-time_Systems

Course articulation matrix:

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	-	1	3	1	1	1	-	2
CO2	3	2	2	2	3	1	1	1	2	3
CO3	3	3	3	2	3	1	1	1	2	3
CO4	3	2	2	1	3	1	1	1	2	3
Weighted Average	3	2.25	1.75	1.5	3	1	1	1	1.5	2.75

SC WIRELESS SENSOR NETWORKS

3:1:0

Total: 40 hours

Objectives:

- To learn the technologies and challenges of Wireless Sensor Networks.
- To study the architecture of node and networks.
- To understand various protocols of Wireless Sensor Networks.
- To learn the topology control and positioning of nodes.

Course Outcome:

At the end of the course the students will be able to:

CO1: Comprehensive understanding of Wireless Sensor Networks, their applications, challenges.

CO2: Deep understanding of both single-node and network architectures.

CO3: Understanding of MAC Protocols in WSNs.

CO4: Comprehensive understanding of the time synchronization and enable to analyze and apply these protocols.

Unit I: INTRODUCTION TO WIRELESS SENSOR NETWORKS

What is sensor?, Why sensors required?, What is Wireless Sensor Networks?, Advantages, Applications, Types of Applications, Challenges for Wireless Sensor Networks, Why are WSNs different.

Unit II: ARCHITECTURES

Single-Node Architecture - Hardware Components, Energy Consumption of Sensor Nodes, Network Architecture - Sensor Network Scenarios, Optimization Goals and Figures of Merit, Design Principles of WSNs, Gateway Concepts.

Unit III: MAC Protocols

Fundamentals of (wireless) MAC protocols, MAC Protocols for Wireless Sensor Networks, Low Duty Cycle Protocols And Wakeup Concepts - S-MAC, The Mediation Device Protocol, Wakeup Radio Concepts.

Unit IV: TIME SYNCHRONIZATION

Introduction to the time synchronization problem, Protocols based on sender/receiver synchronization, Protocols based on receiver/receiver synchronization.

References:

1. Holger Karl and Andreas Willig, "Protocols and Architectures for Wireless Sensor Networks" John Wiley, 2005.
2. Chandrakant Naikodi, Dr. Suresh L, "The Today and Future of Wsn, Ai, and Iot A Compass and Torchbearer for the Technocrats", Bpb Publications, 2020
3. Feng Zhao and Leonidas J. Guibas, "Wireless Sensor Networks- An

Information Processing Approach", Elsevier, 2007.

4. Raghavendra, Cauligi S, Sivalingam, Krishna M, Zanti Taiev. "Wireless Sensor Networks", Springer 1st Edition 2004.
5. Waltenegus Dargie , Christian Poellabauer, "Fundamentals of Wireless Sensor Networks Theory and Practice", John Wiley & Sons Publications, 2011.

Weblink References:

1. [Mohammed Sulaiman BenSaleh](#), [Raoudha Saida](#)
" Wireless Sensor Network Design Methodologies: A Survey"
Link: <https://doi.org/10.1155/2020/9592836>
2. [I Almomani](#), [B Al-Kasasbeh](#), [M Al-Akhras](#)
" [WSN-DS: a dataset for intrusion detection systems in wireless sensor networks](#)" Link: <https://doi.org/10.1155/2016/4731953>
3. [Belal Al-Fuhaidi](#), [Abdulqader M. Mohsen](#)
"An Efficient Deployment Model for Maximizing Coverage of Heterogeneous Wireless Sensor Network Based on Harmony Search Algorithm"
Link: <https://doi.org/10.1155/2020/8818826>

Course articulation Matrix:

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	2	1	2	1	-	1	2	1
CO2	3	2	3	2	2	1	-	-	1	1
CO3	3	2	2	2	2	-	-	1	1	1
CO4	3	2	3	3	3	2	-	-	3	1
Weighted Average	3	2.25	2.5	2.5	2.25	1	-	0.5	1.75	1

SC**DATA MINING****3:1:0**

Total: 40 hours

Objectives:

- Understand the fundamental concepts, methods, and applications of data mining.
- Analyze the rules and techniques related to association analysis, classification, and clustering, and how they are applied to real-world data.
- Evaluate and compare different classification and clustering algorithms, identifying their strengths and limitations in various contexts.
- Apply data mining techniques to solve practical problems, recognizing the type of data and the appropriate preprocessing needed.

Course outcomes:

At the end of the course the students will be able to:

CO1: Identify and categorize data mining problems, demonstrating the ability to recognize types of data and the necessary pre processing techniques.

CO2: Apply the concepts of association analysis to discover meaningful patterns within datasets.

CO3: Analyze problems suitable for classification and implement different classification algorithms.

CO4: Analyze and apply clustering algorithms to appropriate problems.

Unit I:

Introduction to data mining, Challenges, Data Mining Tasks. Data: Types of Data, Data Quality, Data Pre-processing, Measures of Similarity and Dissimilarity.

Unit II:

Association Analysis: Association Analysis: Problem Definition, Frequent Item set Generation, Rule generation. Alternative Methods for Generating Frequent Item sets, FP-Growth Algorithm, Evaluation of Association Patterns.

Unit III:

Classification: Decision Trees Induction, Method for Comparing Classifiers, Rule Based Classifiers, Nearest Neighbour Classifiers, Bayesian Classifiers.

Unit IV:

Clustering Analysis: Overview, K-Means, Agglomerative Hierarchical Clustering, DBSCAN, Cluster Evaluation, Density-Based Clustering, Graph Based Clustering, Scalable Clustering Algorithms.

Textbook:

1. Introduction to Data Mining, Pang-Ning Tan, Michael Steinbach, and Vipin Kumar, Pearson, 2e.

References:

1. Data Mining: Concepts and Techniques, Jiawei Han, Micheline Kamber, Jian Pei, Morgan, Kaufmann Publisher, 3e
2. Mastering Data Mining, Michael.J.Berry, Gordon.S.Linoff, Wiley Edition, 2e.
3. Principles of Data Mining, David Hand, Heikki Mannila and Padhraic Smyth, The MIT Press.

Web link References:

1. Data Mining Methods and Applications, Kwok-Leung Tsui, et.al.,
<https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=2bc771da303bca803ecb1f4e2431962d8ff5ce2b>
2. A survey on the use of association rules mining techniques in textual social media, Jose A. Diaz - Garcia, M. Dolores Ruiz, Maria J. Martin-Bautista,
<https://link.springer.com/content/pdf/10.1007/s10462-022-10196-3.pdf>

Course Articulation Matrix:

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO										
CO1	2	3	3	3	2	2	1	1	2	2
CO2	3	3	3	3	2	2	-	-	2	2
CO3	3	3	3	3	3	2	-	-	2	2
CO4	3	3	3	3	3	2	-	-	2	2
Weighted Average	2.75	3	3	3	2.5	2	1	1	2	2

SC ENTREPRENEURSHIP DEVELOPMENT 3:1:0

Total: 40 hours

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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Analyze the history and need for entrepreneurship.

CO2: Employ the functions of women and rural entrepreneurship.

CO3: Inculcating the behaviors of entrepreneurs.

CO4: 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. SKhanka, 1st edition, S. Chand Publication.
2. Dynamics of Entrepreneurship Development, Vasant Desai,

6th edition, Himayala Publishing House.

3. Entrepreneurship: New Venture Creation ,David H. Holt, Pearson Publication.

Weblink References:

1. VARUNA AGARWALA, et. al., FEMALE ENTREPRENEURSHIP, EMPLOYABILITY AND EMPOWERMENT: IMPACT OF THE MUDRA LOAN SCHEME, Journal of Developmental Entrepreneurship, Vol.27, No. 01, 2250005, 2022.
<https://www.worldscientific.com/doi/10.1142/S1084946722500054>
2. Minh Pham, et. al., The impact of entrepreneurship knowledge on students' e-entrepreneurial Intention formation and the moderating role of technological innovativeness, Journal of Innovation and Entrepreneurship, Springer Open, 25 November 2023.
<https://innovation-entrepreneurship.springeropen.com/articles/10.1186/s13731-023-00351-7>
3. Alberto Michele Felicetti, Digital innovation in entrepreneurial firms: a Systematic literature review, Springer Link, 21 March 2023.
<https://link.springer.com/article/10.1007/s11846-023-00638-9>

Course articulation matrix:

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

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

Total: 40 hours

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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Acquire the knowledge on Business Intelligence methodologies.

CO2: Comprehend the User models of Business Intelligence in real time scenarios.

CO3: Employ the lifecycle strategies on various BI capabilities.

CO4: 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, 1st edition, Wiley publishing.
2. Business Intelligence and Analytics: Systems for Decision Support, RameshShardha. 10th edition, Pearson, 2014.
3. Business analytics for managers: taking business intelligence beyond reporting, Gert H.N, 2nd edition, Wiley Publishing.

Weblink References:

1. Hussain Al-Aqrabi, et. al., Cloud BI: Future of business intelligence in the Cloud, Journal of Computer and System Sciences, ELSEVIER.
<https://www.sciencedirect.com/science/article/pii/S0022000014001007>
2. Jasdeep Bhatia, Business Intelligence: Operations, User Types, and Advantages, 2023.
<https://pwwskills.com/blog/business-intelligence-operations-user-types-and-advantages-2023/>
3. Altexsoft, What is OLAP: A Complete Guide to Online Analytical Processing.
<https://www.altexsoft.com/blog/olap-online-analytical-processing/>

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	1	1	1	1	1	1	1	1
CO 2	3	2	1	2	1	1	1	1	1	1
CO 3	3	3	1	2	1	1	1	1	1	1
CO 4	3	3	1	1	1	1	1	1	1	1
Weighted Average	2.75	2.5	1	1.5	1	1	1	1	1	1

SC PROFESSIONAL ETHICS AND HUMAN VALUES 3:1:0

Total: 40 hours

Objectives:

- Understand the fundamentals of Human values.
- Know the concepts of engineering ethics and responsibilities.
- Get an overview of Global issues and its practices.
- Develop a comprehensive understanding of SEL principles, frameworks, and implementation strategies.

Course outcomes:

At the end of the course the students will be able to:

CO1: Implement the aspects of Human Values.

CO2: Provide depth knowledge on framing of the problem and determining the facts.

CO3: Display the awareness of Global issues in Ethics.

CO4: Understand and implement SEL frameworks to enhance emotional intelligence.

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

Overview, Senses of engineering ethics, variety of moral issues, types of enquires, moral dilemmas, moral autonomy, moral development, Profession: Types, characteristics professional role model.

Unit III: Global Issues

Globalization, Environmental ethics: Disaster, Computer ethics: Types of users, computer crimes, Weapons development, Engineers as managers: Charactersitics, Engineers as advisors in planning and policy making, code of ethics::Institute Of Engineering (India).

Unit IV: Social Emotional Learning: Defining social emotional learning, CASEL's SEL Framework, Avoiding the Pitfalls of SEL and Delivering on Its Promise, Three-Step Process for Developing a Common Vision. Introduction to Emotional Intelligence EI, EQ, and SEL: What's the Difference?

References:

1. A Textbook on Professional Ethics and Human Values - R. S. Naagarazan, New Age international publishers.
2. Black, Donna Lord (2022). Essentials of Social and Emotional Learning (SEL).

NJ: Wiley.

Weblink References:

1. Teachers' Perception of Professional Ethics and Its Impact on Their Professionalism
https://www.google.com/search?q=professional+ethics+peer+journal+artical&rlz=1C1CHBD_enIN784IN784&oq=professional+ethics+peer+journal+artical&aqs=chrome..69i57j33i10i160l2.32789j0j15&sourceid=chrome&ie=UTF-8#ip=1
2. Effective practices for improving services professional's ethical behaviors: A multiple method study.
<https://www.frontiersin.org/journals/psychology/articles/10.3389/fpsyg.2022.1042142/full>
3. Chinese Investment Scandal Highlights 'Shadow Banking' Risks
https://www.nytimes.com/2017/04/19/business/china-minsheng-shadow-banking.html?_ga=2.52299241.1740380992.1515321693-1587685369.1515321693

Course Articulation Matrix

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

SC

CYBER SECURITY**3:1:0**

Total: 40 hours

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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Understand the concept of cybercrime and offenses.

CO2: Analyze the problems relating to cyber-crimes using mobile phones.

CO3: Demonstrate the various attacks of cyber-crime.

CO4: 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. Information Systems Security, Nina Godbole, 1st edition, Wiley India.
3. Principles of Information Security, Michael E. Whitman, Herbert J. Mattord, 6th edition, Cengage Learning.
4. Cryptography and Network Security, William Stallings, 4th edition, Pearson Publication.

Weblink References:

1. Cyberattacks, cyber threats, and attitudes toward cybersecurity policies Keren L G Snider, Ryan Shandler, Shay Zandani, Daphna Canetti Journal of Cybersecurity, Volume 7, Issue 1, 2021
<https://doi.org/10.1093/cybsec/tyab019>
<https://academic.oup.com/cybersecurity/article/7/1/tyab019/6382745?searchresult=1>
2. Credit Card Fraud Detection on Original European Credit Card Holder Dataset Using Ensemble Machine Learning Technique Yih Bing Chu *, Zhi Min Lim, Bryan Keane, Ping Hao Kong, Ahmed Rafat Elkilany, Osama Hisham Abusetta Journal of Cyber Security 2023
<https://doi.org/10.32604/jcs.2023.045422>
<https://www.techscience.com/JCS/v5n1/54443>
3. A Study of Cyber Security Threats, Challenges in Different Fields and its Prospective Solutions: A Review Val Hyginus U. Eze1, Chinyere Nneoma Ugwu1 and Ifeanyi Cornelius INOSR Scientific Research 9(1):13-24, 2023. 13 ©INOSR PUBLICATIONS International Network Organization for Scientific Research
https://www.researchgate.net/publication/367742804_A_Study_of_Cyber_Security_Threats_Challenges_in_Different_Fields_and_its_Prospective_Solutions_A_Review

Course articulation matrix:

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

SC

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

Total: 40 hours

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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Analyze the different Components of System and identify the Applications of Simulation.

CO2: Implement different algorithms associated with generation of Random numbers and test for Random numbers.

CO3: Implement different methods of generating the Random Variants.

CO4: 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 LNelson, DavidM Nicol, Pearson Education Asia.
2. System Simulation - Geoffrey Gordon, Prentice Hall India.
3. System Simulation with Digital Computers - N. Deo, PHI.

Weblink Reference:

1. Ji Zhang, et.al., “Information Exchange Pairs Simulation Method Based on Discrete Event Simulation for Autonomous Transportation System”
<https://www.hindawi.com/journals/jat/2023/6909964/>

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	1	1	1	1	1	1	1	2	2
CO2	3	3	3	3	3	-	1	1	1	1
CO3	2	2	2	2	2	-	1	-	1	1
CO4	2	2	2	1	2	-	1	-	1	1
Weighted Average	2.25	2	2	1.75	2	1	1	1	1.25	1.25

SC **ADVANCED SOFTWARE ENGINEERING** **3:1:0**

Total: 40 hours

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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Gain an understanding to work in one or more significant application domains.

CO2: Develop an ability to work as an individual and as part of a multidisciplinary team to develop and deliver quality software.

CO3: Demonstrate an understanding of and apply the current theories, models, and techniques that provide a basis for the software lifecycle.

CO4: 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, Introduction to DevOps - DevOps and Agile, Minimum Viable Product - Application Deployment - Continuous Integration - Continuous Delivery.

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, McGrawHill 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.
4. The DevOps Handbook - by Gene Kim, Jez Humble, Patrick Debois, and Willis Willis.
5. What is DevOps? - by Mike Loukides.
6. The DevOps Handbook - by John Willis, Patrick Debois, Jez Humble, Gene Kim.

Weblink References:

1. Insights into an Emerging Software Methodology: DevOps
Link- <https://ieeexplore.ieee.org/document/10391992>
Published in: 2023 7th International Conference On Computing, Communication, Control And Automation (ICCUBEA)
2. A Case Study of DevOps Adoption within a Large Financial Organisation
Link- <https://ieeexplore.ieee.org/document/10336327>
Published in: 2023 IEEE International Conference on Software Maintenance and Evolution (ICSME)
3. State-of-the-Art Review on Current Approaches to Female Inclusiveness in Software Engineering and Computer Science in Higher Education
Link- <https://ieeexplore.ieee.org/document/10373034>
Published in: IEEE Access (Volume: 12)
4. Attribution-based Personas in Virtual Software Engineering Education
Link- <https://ieeexplore.ieee.org/document/10172670>
Published in: 2023 IEEE/ACM 45th International Conference on Software Engineering: Software Engineering Education and Training (ICSE-SEET)
5. Attribution-based Personas in Virtual Software Engineering Education
Link- <https://ieeexplore.ieee.org/document/10172670>
Published in: 2023 IEEE/ACM 45th International Conference on Software Engineering: Software Engineering Education and Training (ICSE-SEET)

Course articulation matrix:

PO 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 Average	2.25	1.25	2.25	2	2	1	1.5	1	2.25	1.5

SC**RESEARCH METHODOLOGY****3:1:0**

Total: 40 hours

Objectives:

- To give an overview of the research methodology and explain the technique of defining a research problem.
- To explain the functions of the literature review in research.
- To explain carrying out a literature search, its review, developing theoretical and conceptual frameworks and writing a review.
- To explain various research designs and their characteristics.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Identify the suitable research methods and articulate the research steps in a proper way.

CO2: Explain the functions of the literature review in research, carrying out a literature search.

CO3: Explain various research designs, sampling designs, measurement and scaling techniques.

CO4: Perform the data collection from various sources segregate the primary and secondary.

UNIT I:

Research Methodology: Introduction, Meaning of Research, Objectives of Research, Motivation in Research, Types of Research, Research Approaches, Significance of Research, Research Methods versus Methodology, Research and Scientific Method, Importance of Knowing How Research is Done, Research Process, Criteria of Good Research, and Problems Encountered by Researchers in India.

UNIT II:

Defining the Research Problem: Research Problem, Selecting the Problem, Necessity of Defining the Problem, Technique Involved in Defining a Problem, An Illustration. Reviewing the literature: Place of the literature review in research, Bringing clarity and focus to your research problem, Improving research methodology, Broadening knowledgebase in research area, Enabling contextual findings, How to review the literature, searching the existing literature, reviewing the selected literature, Developing a theoretical framework, Developing a conceptual framework, Writing about the literature reviewed.

UNIT III:

Research Design: Meaning of Research Design, Need for Research Design, Features of a Good Design, Important Concepts Relating to Research Design, Different Research Designs, Design of Sample Surveys: Introduction, Sample Design, Sampling and Non

sampling Errors, Sample Survey versus Census Survey, Types of Sampling Designs.

UNIT IV:

Data Collection: Experimental and Surveys, Collection of Primary Data, Collection of Secondary Data, Selection of Appropriate Method for Data Collection, Case Study Method. Interpretation: Meaning of Interpretation, Technique of Interpretation, Precaution in Interpretation, Significance of report writing, Different steps in writing report, Layout of the research report.

References:

1. Research Methodology: Methods and Techniques, C.R. Kothari, Gaurav Garg New Age International 4th Edition, 2018.
2. Research Methodology a step-by- step guide for beginners. (For the topic Reviewing the literature under module 2)Ranjit Kumar SAGE Publications Ltd 3rd Edition, 2011 Study Material.
3. Research Methods: the concise knowledge base Trochim, Atomic Dog Publishing, 2005.
4. Conducting Research Literature Reviews: From the Internet to Paper Fink A SagePublications, 2009.

Weblink References:

1. https://www.ijrrjournal.com/IJRR_Vol.6_Issue.3_March2019/IJRR0011.pdf
2. https://www.researchgate.net/publication/361807570_An_Study_of_Research_Methodology
3. <https://www.sciencedirect.com/science/article/pii/S0148296319304564>

Course articulation matrix:

PO										
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO1	3	2	2	1	1	2	2	1	2	1
CO2	-	2	1	1	1	1	1	1	3	1
CO3	1	2	1	1	1	1	1	1	1	1
CO4	2	1	1	1	1	2	1	1	1	1
Weighted Average	2	1.75	1.25	1	1	1.5	1.25	1	1.75	1

SC

NPTEL MOOC COURSE

4 Credits

NPTEL Certification Courses (MOOC Courses) NPTEL (National Programme on Technology Enhanced Learning) is a joint initiative of the IITs and IISc. Through this initiative, online courses and certification in various topics are offered to the students and scholars to enrich their knowledge in various domains.

Students shall submit certificates showing the credit points (no. of week course) earned through SWAYAM MOOCs to the Head of the department.

OE

WORLD WIDE WEB

3:1:0

Total: 40 hours

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.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Understand the working scheme of the Internet and World Wide Web.

CO2: Evaluate the various protocols of the Internet.

CO3: Comprehend and demonstrate the application of Hypertext Mark-up Language (HTML).

CO4: 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.

Weblink References:

1. https://en.wikipedia.org/wiki/World_Wide_Web
2. <https://www.geeksforgeeks.org/world-wide-web-www/>
3. https://onlinecourses.swayam2.ac.in/nou22_cs03/preview
4. <https://link.springer.com/article/10.1007/s11280-024-01284-1>

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	1	1	1	-	-	1	1	1	1
CO 2	2	1	1	1	-	-	1	1	1	1
CO 3	2	1	1	1	1	-	1	1	1	1
CO 4	2	2	2	1	1	1	1	1	1	1
Weighted Average	2	1.25	1.25	1	0.5	1	1	1	1	1

OE

E-COMMERCE

3:1:0

Total: 40 hours

Objectives:

- To impart knowledge on E-Commerce.
- To provide an overview of Business Strategy in E-Commerce.
- To provide knowledge of Internet and Webpage to establish a career in E-commerce.
- Understand the Legal and Ethical Issues in E – commerce.

Course Outcomes:

At the end of the course the students will be able to:

CO1: Analyse the impact of E-commerce on business models and strategy

CO2: Understand the various Business Strategies including, Technology, e-Commerce Implementation, e-commerce evaluation.

CO3: Understand the Internet and Webpage.

CO4: Recognize and discuss global E-commerce issues.

Unit I - Introduction to Electronic Commerce

Scope, Definition, Trade Cycle, Electronic Markets, EDI, Internet Commerce.

Unit II - Business Strategy

Introduction, Strategic Implications, Technology, Business Environment, Capability, Strategy formulation and Implementation planning, e-Commerce Implementation, e-commerce evaluation.

Unit III - The Internet

The Development of the Internet, A page on the web, HTML, Client side Scripting, Server side Scripting.

Unit IV - Legal and Ethical Issues

Ethical Issues in the Digital Economy, Cyberstalking, Cybersquatting, Phishing; Application Fraud, Skimming, Copyright violation, Internet Gambling, Threats children, Loss of Privacy, Cookies and Privacy.

References:

1. E - Commerce: Strategy, Technologies and Applications, David Whiteley.
2. E Commerce: An Indian Perspective, P.T. Joseph, S.J, VII Edition.
3. E-commerce: The Cutting Edge of Business, K. K. Bajaj and Debjani Nag, 2nd Edition, McGraw Hill.
4. Handbook of Electronic Commerce, Shaw et al., Springer.
5. Global Electronic Commerce- Theory and Case Studies, C. Westland and T. H. K. Clark, University Press.

6. Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives, SunitBelapure and Nina Godbole, Wiley India.

Web link References:

1. Use of E – Commerce in the World of Business
<https://journal.pandawan.id/sabda/article/view/273/259>+
2. A Customer-Centric View of E-Commerce Security and Privacy
<https://www.mdpi.com/2076-3417/13/2/1020>
3. Scope of e-Business & e-Commerce to Business and Modern Life
View of Scope of e-Business & e-Commerce to Business and Modern Life
(jisma.org)
<https://jisma.org/index.php/jisma/article/view/261/58>
https://onlinecourses.swayam2.ac.in/cec19_cm01/preview

Course articulation matrix:

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

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

Total: 40 hours

Objectives:

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

Course Outcomes:

At the end of the course the students will be able to:

CO1: Understand the basics of computer hardware and software.

CO2: Prepare documents of different types.

CO3: Ability to develop and use spreadsheets for tabulating and analysing for productivity.

CO4: Prepare presentations.

UNIT I: BASICS OF COMPUTER

Introduction to Computer: Definition - History & Generation of Computer (From First to 5th) -Applications of Computer – Advantages of Computer – Terms related to Computer – Characteristics of Computer: Speed, Storage, Versatility and Diligence – Hardware & Software. Block Diagram and Working Principle of Computer - Types of Computer: On the Basis of Working - Analog, Digital & Hybrid, On the Basis of Size - Main frame, Mini Computer, Super Computer, Work station, Micro Computer, Desktop Computer, Laptop Computer, Palmtop Computer; On the basis of Processor – XT, AT & Pentium(i3, i5, i7,so on); Memory: Units, Representation, Types - Primary memory: RAM, ROM, PROM, EPROM, EEPROM, DDR Secondary memory: Hard disk, CD, DVD, Blue ray Disc, Pen Drive Magnetic tape & Zip disk – CPU: Components of CPU - Mother board, Hard disk, RAM, ROM, Processor, SMPS & Connecting wire - Graphics Card, Sound Card, Network Card – Modem; Input, Output devices: Keyboard, Mouse, Scanner, Digital Camera, Joystick, Pen drive, Monitor, Printer, Plotter – Connecting port – Serial, parallel – USB port.

UNIT II: MS-WORD

MS Word - Working with Documents -Opening & Saving files, Editing text documents, Inserting, Deleting, Cut, Copy, Paste, Undo, Redo, Find, Search, Replace, Formatting page & setting Margins, Converting files to different formats, Using Tool bars, Ruler, Using Icons, using help, Formatting Documents - Setting Font styles, Font selection- style, size, colour etc, Type face - Bold, Italic, Underline, Case settings, Highlighting, Special symbols, Setting Paragraph style,

Alignments, Indents, Line Space, Margins, Bullets & Numbering. Setting Page style - Formatting Page, Page tab, Margins, Layout settings, Paper tray, Border & Shading, Columns, Header & footer, Setting Footnotes & end notes – Shortcut Keys; Inserting manual page break, Wrapping, Setting Document styles, Page Numbering, date & Time, Author etc., Creating Tables- Table settings, Borders, Alignments, Insertion, deletion, Merging, Splitting, Sorting, and Formula, Drawing - Inserting ClipArts, Pictures/Files etc., Tools – Word Completion, Spell Checks, Mail merge, Printing Documents – Shortcut keys.

Unit III: MS-EXCEL

MS Excel: Spread Sheet & its Applications, Opening Spreadsheet, Menus - main menu, Formula Editing, Formatting, Toolbars, Using Icons, Using help, Shortcuts, Spreadsheet types. Working with Spreadsheets- opening, Saving files, setting Margins, Converting files to different formats (importing, exporting, sending files to others), Spread sheet addressing - Rows, Columns & Cells, Referring Cells & Selecting Cells – Shortcut Keys. Entering & Deleting Data- Entering data, Cut, Copy, Paste, Undo, Redo, Filling Continuous rows, columns, Highlighting values, Find, Search & replace, Inserting Data, Insert Cells, Column, rows & sheets, Symbols, Data from external files, Frames, Clipart, Pictures, Files etc, Inserting Functions, Setting Formula - finding total in a column or row, Mathematical operations (Addition, Subtraction, Multiplication, Division, Exponentiation), Using other Formulae. Formatting Spreadsheets- Labelling columns & rows, Formatting-Cell, row, column & Sheet, Category - Alignment, Font, Border & Shading, Hiding/ Locking Cells, Anchoring objects, Formatting layout for Graphics, Clipart etc., Worksheet Row & Column Headers, Sheet Name, Row height & Column width, Visibility - Row, Column, Sheet, Security, Sheet Formatting & style, Sheet background, Colour etc, Borders & Shading – Shortcut keys. Working with sheets – Sorting, Filtering, Validation, Consolidation, and Subtotal. Creating Charts - Drawing.

UNIT IV- MS Power point

MS Power point: Introduction to presentation – Opening new presentation, Different presentation templates, Setting backgrounds, Selecting presentation layouts. Creating a presentation – Setting Presentation style, Adding text to the Presentation. Formatting a Presentation - Adding style, Colour, gradient fills, Arranging objects, Adding Header & Footer, Slide Background, Slide layout. Adding Graphics to the Presentation- Inserting pictures, movies, tables etc into presentation, Drawing Pictures using Draw. Adding Effects to the Presentation-Setting Animation & transition effect. Printing Handouts, Generating Standalone Presentation viewer.

References:

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

Course articulation matrix:

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

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. Grünig ,Samuel Lampa,Marc Vaudel and Daniel Blankenberg,
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, IEEE2019, <https://ieeexplore.ieee.org/abstract/document/8786240>

Cloud Computing

1. Research on Key Technologies of Cloud Computing, Shufen Zhang, Hongcan Yan, Xuebin Chen, 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
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

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/5db07f61299bf11d4c01521/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. VenkataKrishna and V. Saritha, https://www.researchgate.net/publication/227172798_A_Study_on_Internet_of_Things_bas ed_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 Ai, Hamed 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 Kayikci, <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, HOLISTICAVol 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

ADDITIONAL WEB RESOURCES

Programming Paradigms <https://see.stanford.edu/Course/CS107>

Introduction to Robotics <https://see.stanford.edu/Course/CS223A>

Programming Methodology <https://see.stanford.edu/Course/CS106A>

Programming Abstractions <https://see.stanford.edu/Course/CS106B>

Programming for the Puzzled <https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-s095-programming-for-the-puzzled-january-iap-2018/>

Machine Learning <https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-867-machine-learning-fall-2006/>

Machine Learning for Healthcare <https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-s897-machine-learning-for-healthcare-spring-2019/>

Introduction to Deep Learning <https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-s191-introduction-to-deep-learning-january-iap-2020/>

Advanced Data Structures <https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-851-advanced-data-structures-spring-2012/>

Kotlin Tutorial <https://www.w3schools.com/kotlin/index.php>

Python Programming <https://www.w3schools.com/python/default.asp>

Angular JS <https://www.w3schools.com/angular/default.asp>

Cyber Security <https://www.w3schools.com/cybersecurity/index.php>

Data Scientist <https://www.codecademy.com/learn/paths/data-science>

Analyze data with Python <https://www.codecademy.com/learn/paths/analyze-data-with-python>

SBRR Mahajana First Grade College (Autonomous), PG Wing
Accredited by NAAC with A Grade
Pooja Bhagavat Memorial Mahajana Education Centre
Affiliated to University Of Mysore

M.C.A
QUESTION PAPER PATTERN

Duration: 2 Hours

Max Marks: 50

(There are 5 questions. All questions must be answered.)

Question 1

There are 8 questions and a candidate has to answer any 5 questions, each carries 2 marks. (2 questions from each unit) $5 \times 2 = 10$

Question 2

There are 2 main questions (a) and (b) each carrying 10 marks. Candidate has to answer any one (a or b). This covers unit 1 of the syllabus. (Each main question can be split into sub- questions totaling 10 marks) $10 \times 1 = 10$

Question 3

There are 2 main questions (a) and (b) each carrying 10 marks. Candidate has to answer any one (a or b). This covers unit 2 of the syllabus. (Each main question can be split into sub- questions totaling 10 marks) $10 \times 1 = 10$

Question 4

There are 2 main questions (a) and (b) each carrying 10 marks. Candidate has to answer any one (a or b). This covers unit 3 of the syllabus. (Each main question can be split into sub- questions totaling 10 marks) $10 \times 1 = 10$

Question 5

There are 2 main questions (a) and (b) each carrying 10 marks. Candidate has to answer any one (a or b). This covers unit 4 of the syllabus. (Each main question can be split into sub- questions totaling 10 marks) $10 \times 1 = 10$

**Department of MCA
Board of Studies - 2024**

Sl. No.	Category	Name	Designation	Address for Communication	E-mail and Mobile No.
1	Chairperson	Mrs. Rachana C R	Associate Professor & Head	Department of Studies in Computer Science, PG Wing of S.B.R.R. Mahajana First Grade College (Autonomous), Pooja Bhagavat Memorial Mahajana Education Centre, K.R.S. Road, Metagalli, Mysuru-570016.	rachanacr@gmail.com 8095645644
2	Faculty of the Department	Smt. Yashaswini J	Assistant Professor		yashuj.krn@gmail.com 9538779281
3		Dr. Anisha Kumar			anishakumar2010@gmail.com 9483468829
4		Ms. Likhitha M M			likhithamm@gmail.com 7022444565
5		Mrs. Eswin Angel Pria			eswin.mtech@gmail.com 7338527687
6		Ms. Sushmita Sheeba Dsa			sushmitadsa24@gmail.com 8867982521
7	Mrs. Meghana J	meghanajgowda1984@gmail.com 8123153878			
8	University Nominee	Prof. Suresha	Professor	DoS in Computer Science, University of Mysore, Manasagangothri, Mysuru.	sureshasuvi@gmail.com 9449810894
9	Two Experts from other university	Dr. R.K. Bharathi	Professor & Head	Department of Computer Applications, J.S.S Science & Technology University, Mysore.	rkbharathi@jssstuniv.in 9481150296
10		Dr. Siddesha S	Associate Professor		siddesh.shiv@jssstuniv.in 8884885076
11	Alumnus	Mr. Vinayaka Hegde	Senior Application Engineer	Oracle Tech Hub Block B & C No.169/1, BBMP Ward No.150-Bellandur, Sarjapur Marathahalli Ring Road, Kadubeesanahalli, Varthur Hobli, Bengaluru.	hegdevinayaka171@gmail.com 9481111860
12	Industry Expert	Mr. Harsha Srinivas	Director	AIMLWare Systems Private Limited IC-3, 1 st Floor, SJCE-STEP SEED building, JSS Technical Institution campus, Manasagangothri, Mysuru-570006	harsha@aimlware.com 8904831200

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



APPROVAL PROCESS 2024-25

Extension of Approval (EoA)

F.No. South-West/1-43657196390/2024/EOA

Date of Approval: 13-May-2024

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 2024-25

Ref: Online application of the Institution submitted for Extension of Approval for the Academic Year 2024-25

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Education), Powers delegated in AICTE ACT 1987, (No 52 of 1987) chapter II - u/s 2(g) to regulate Technical and subsequent Regulations of AICTE, I am directed to convey the approval to:

Permanent Id	1-14177311	Application Id	1-43657196390
Name of the Institution	SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING	Name of the Society/Trust	MAHAJANA EDUCATION SOCIETY(R)
Institution Address	METAGALLI, KRS ROAD, MYSORE KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016	Society/Trust Address	JAYALAKSHMIPURAM, MYSORE, MYSORE, Karnataka, 570012
Institution Type	Private-Self Financing	Region	South-West
Year of Establishment	1999		

To conduct following Programs/Courses with the Intake indicated below for the Academic Year 2024-25

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2023-24	Intake Approved for 2024-25	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
POST GRADUATE	COMPUTER APPLICATIONS	MASTERS IN COMPUTER APPLICATIONS	Mysore University, Mysore	120	120	No	No

All AICTE approved Institutions are empowered to nurture ecosystems for Skilling (through Vocational courses) via making effective use of existing infrastructure facilities and human resources.

It is mandatory to comply with all the essential requirements as given in APH 2024-25 to 2027 (Chapter-VI)

Important Instructions

1. As per mandatory Disclosure of APH 2024-27(Annexure-18, page180) Institutions must disclose the following information submitted to Council at the Prominent location on its website.
 - i. Department wise availability of Infrastructure along with approved courses and intake approved by the Council.
 - ii. Faculty details: Department wise: Name& Designation of the faculty members/teaching staff along with their qualification, tenure of service in your organization, total experience, Institution should also disclose Student Faculty Ratio, Cadre Ratio.
 - iii. Additionally Audited Financial Statements for last 3 Financial years.
2. Reservation Policy of the Central Government (Including EWS) / Respective State Government/ UT as the case shall be applicable to all the Programmes. The concerned State Government/ UT Admission authority shall decide Modalities of Admission.
3. 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 2024-25 to 2027 for the Total Approved Intake.
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.**
5. All AICTE institutions are highly encouraged to get NBA/NAAC accreditation. All eligible AICTE institutions are thoroughly encouraged to participate in NIRF ranking process.
6. 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.
7. AICTE Approved Institutes are encouraged to utilize SWAYAM PLUS Courses up-to 40%
8. Internship is mandatory for all admitted students.
9. AICTE Approved Institutes are encouraged to make efficient use of the flagship schemes like:
 - a. Parakh: Student Gap analysis portal bases services.
 - b. Students Scholarship schemes like Pragati, Saksham, Swanath, ADF, etc.
 - c. Course in Indian Languages.
 - d. ATAL FDPs: Faculty training for Emerging areas and cutting edge Technologies.
 - e. Augmenting Utilization of Research Assets (AURA).
 - f. Smart India Hackathon: World's largest Open Innovation Platform.

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. **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, a consolidated list of Approved Institutions(bulk) may be downloaded from the respective login id's.

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APPROVAL PROCESS 2023-24

Extension of Approval (EOA)

F.No. South-West/1-36481218446/2023/EOA

Date: 10-Jun-2023

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 2023-24

Ref: Online application of the Institution submitted for Extension of Approval for the Academic Year 2023-24

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Education) Regulations, 2020 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:

Permanent Id	1-14177311	Application Id	1-36481218446
Name of the Institution	SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING	Name of the Society/Trust	MAHAJANA EDUCATION SOCIETY(R)
Institution Address	METAGALLI, KRS ROAD, MYSORE KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016	Society/Trust Address	JAYALAKSHMIPURAM, MYSORE, MYSORE, Karnataka, 570012
Institution Type	Private-Self Financing	Region	South-West
Year of Establishment	1999		

To conduct following Courses with the Intake indicated below for the Academic Year 2023-24

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2022-23	Intake Approved for 2023-24	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
POST GRADUATE	COMPUTER APPLICATIONS	MASTERS IN COMPUTER APPLICATIONS	Mysore University, Mysore	60	120	NA	No

It is mandatory to comply with all the essential requirements as given in APH 2023-24 (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 2023-24 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 Committee (IC), 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.
5. As per the AICTE Notification dated 29.01.2014 and amended thereto, it shall be mandatory for each Technical Education Institution, University Department and Institution Deemed to be University imparting Technical Education to get accreditation (NBA) for at least 60% of the eligible courses in the next ONE (1) Years' time, otherwise EoA for the subsequent Academic Year (A.Y. 2024-25) shall not be issued by the Council.
6. 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. **Guard File(AICTE)**

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

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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

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

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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:

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

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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



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

Permanent Id	1-14177311	Application Id	1-4261705959
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/Location	No	Change of Site/Location 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
Opted for Merger of Institution	No	Merger of Institution Approved or Not	NA
Opted for Introduction of New Program/Level	No	Introduction of Program/Level Approved or Not	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



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

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



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Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 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

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

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Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 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

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 KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016
Institute Type	Unaided - Private	Society/Trust Address	JAYALAKSHMIPURAM,MYSORE,MYSORE,Karnatak 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



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7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

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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

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

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



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7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 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>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



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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 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

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 KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016
Name of the Society/Trust	MAHAJANA EDUCATION SOCIETY(R)	Society/Trust Address	JAYALAKSHMIPURAM,MYSORE,MYSORE,Karnatak 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



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

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>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:

1. **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

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

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 KARNATAKA , INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016
Name of the Society/Trust	MAHAJANA EDUCATION SOCIETY(R)	Society/Trust Address	JAYALAKSHMIPURAM,MYSORE,MYSORE,Karnatak 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



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

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

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:

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,**



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

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

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



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

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



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

- 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

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,
M.S. Building, R. N. 645, Dr. B. R. Ambedkar Road,
Bangalore-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 KARNATAKA, INDIA KARNATAKA, MYSORE, MYSORE, Karnataka, 570016
Name of the Society/Trust	MAHAJANA EDUCATION SOCIETY(R)	Society/Trust Address	JAYALAKSHMIPURAM, MYSORE, MYSORE, Karnataka a, 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 APPLICATION S	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

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, INDIKARNATAKA, 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

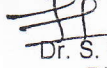
The above mentioned approval is subject to the condition that :

SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING, SBRR MAHAJANA FIRST GRADE COLLEGE, PG WING, METAGALLI, KRS ROAD, MYSOREKARNATAKA, INDIKARNATAKA, 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,


Dr. S. G. Bhurud
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, INDIKARNATAKA, MYSORE, KARNATAKA, PIN : 570016

Regional Officer
South Western Regional Office
All India Council for Technical Education
Bangalore-9.



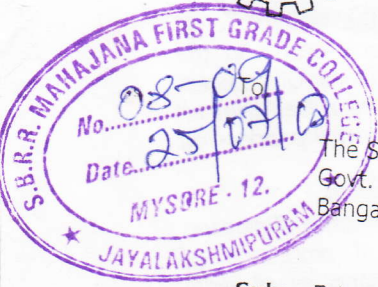


अखिल भारतीय तकनीकी शिक्षा परिषद् ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

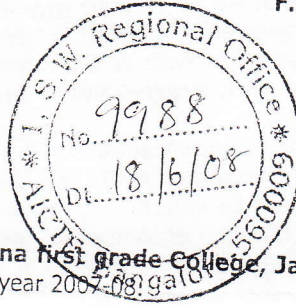
(भारत सरकार का सांविधिक निकाय) (A statutory body of the Govt. of India)

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 31st August irrespective of the period of approval.

The above approval is subject to rectification of following observations/deficiencies/ specific conditions by 31st August 2008.

Faculty

- > The Director is not qualified as per AICTE norms.
- > Eligible Director should be appointed before 30th 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 31st 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

7वाँ तल, चन्द्रलोक भवन, जनपथ, नई दिल्ली-110001

7th Floor, Chander Lok Building, Janpath, New Delhi-110001

Phone : 011-23724151-57 Fax : 011-23724183 Website : www.aicte.ernet.in

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) to the concerned Regional Office latest by 31st 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 31st 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.

- 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. 31st 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), 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)





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: 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 14th 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 31st 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

[Signature]
DIRECTOR

[Signature]

Principal
SBRR Mahajana first grade College,
Jayalakshmipuram, MYSORE-570012

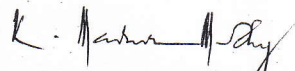


Contd. 2/-

- 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. 31st 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.

- 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 28th 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 31st August 2006.

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

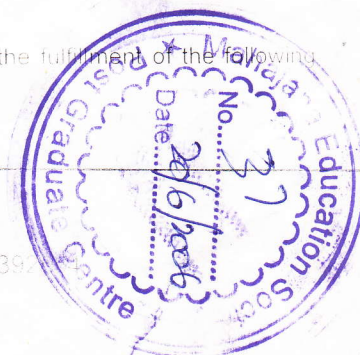
Note: The mandatory disclosure in prescribed format if not hosted on the website should be hosted by 31st May, 2006, failing which action would be initiated as per the rules and regulations of the AICTE including No Admission / Withdrawal of approval.

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) to the concerned Regional Office latest by 31st 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

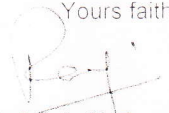
इंदिरा गांधी खेल मंडल, इन्द्रप्रस्थ एस्टेट, नए दिल्ली - 110002
Indira Gandhi Sports Complex, I. P. Estate, New Delhi-110 002
फोन / Phone : 23392500, 63-65-68, 71, 73-75 फैक्स / Fax : 011-23392500
वेबसाइट / Website : www.aicteernet.in



- 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. 31st 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


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).





57
14
(3)

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)

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,

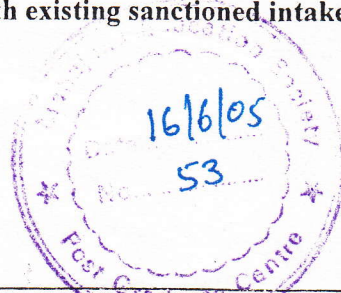
As you are aware, All India Council for Technical Education has been mandated under the AICTE Act, 1987 to ensure **maintenance of norms and standards** with regard to technical education in the country. In exercise of this mandate, the Council insists on fulfillment of the minimum requirements prescribed 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 2004-05	APPROVED INTAKE 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 7th 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 31st 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)





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

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.

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.

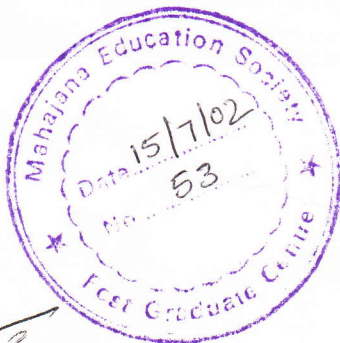
Further, in the event of infringement/contravention or non-compliance of the norms & standards prescribed by the AICTE during the last approved academic year, the Council shall take further action to withdraw approval to this case for admission during subsequent academic year and the liability arising 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/-



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.

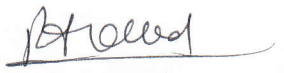
He is also requested to ensure the receipt of notarised undertaking as specified by the Council from the institution / management concerned within the stipulate time frame.

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)

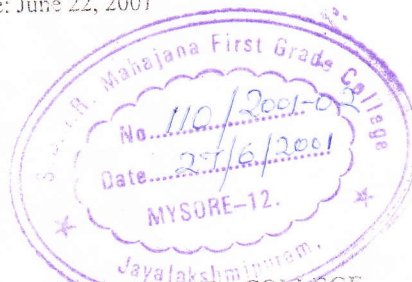
F.No 411/KA-031/ET-MCA/99

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 SBRR 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 SBRR 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	2001-2002

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 Andhara 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/-



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

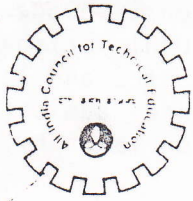
SBRR MAHAJANA FIRST GRADE COLLEGE,
JAYALAKSHMIPURAM,
MYSORE-570 012

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.



(P1) 14 (52)

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

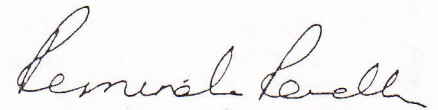
(Pominder Randhawa)
Asst. Director

373

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
ADVISED (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.



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)

Son 16/8/99

(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.

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

Appendix 3: Accounted audited statement for the last three years

L.R. PRAKASH & CO
CHARTERED ACCOUNTANTS
NO. 138/A, 1st FLOOR, RAMAVILAS ROAD
MYSORE- 570 004

PHONE: 0821-3511175

DATE: 22-08-2024

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 31-03-2024. 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 : 24200624BKCZON7720

MAHAJANA EDUCATION SOCIETY®
JAYALAKSHMIPURAM, MYSORE

CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2024

Page 1

RECEIPTS	AMOUNT
TO OPENING BALANCE:	
" CASH IN HAND	3,87,351
" BANK BALANCE	3,74,69,878
" UGC GRANT ACCOUNT	16,434
" INSTITUTION BANK BALANCE	1,23,28,658
REVENUE INCOME :	
" FEES COLLECTED	19,15,99,816
" OTHER RECEIPTS	3,20,37,156
" INTEREST INCOME	1,19,68,442
" RENTAL INCOME	15,57,706
" HOSTEL RECEIPTS	25,23,650
OTHER RECEIPTS	
" SECURITY DEPOSITS	2,16,000
" FIXED DEPOSIT ENCASHED	9,54,22,541
" OTHER ADVANCES RECOVERED	3,65,40,711
" STAFF LOAN RECOVERED	5,18,400
" SUNDRY DEBTORS	44,07,475
" BUILDING FUND	21,41,500
" PROVISIONS DURING THE YEAR	9,88,28,719
" SUNDRY CREDITORS	5,47,49,907
" EARMARKED DONATION	3,00,000
" OTHERS FUNDS	7,66,521
" LOANS , ADVANCES & DEPOSITS(LB)	6,88,830
" MES FGC ADVANCE	3,16,21,549
Total Rs. C/O	61,60,91,247

MAHAJANA EDUCATION SOCIETY®

JAYALAKSHMIPURAM, MYSORE

CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2024

Page 1

PAYMENTS	AMOUNT
BY OPENING BALANCE	
OP BALANCE - BANK OD	7,623
REVENUE EXPENDITURE:	
* SALARIES & ALLOWANCES	14,80,83,736
* ADMINISTRATIVE EXPENSES	91,09,388
* FEST, CONFERENCE & PROGRAMMES	16,10,116
* FINANCIAL CHARGES	84,895
* PRINTING & STATIONERY	8,25,639
* RATES, FEES & TAXES	57,62,153
* REPAIRS & MAINTENANCE	1,41,97,263
* STUDENTS WELFARE EXPENSES	89,10,110
* HOSTEL EXPENSES	4,01,413
* FEES REMITTED TO UOM/GOVT	94,03,536
* INSTITUTION FEES EXPENSES	27,30,663
* CONTINGENCY RESERVE FUND	93,74,514
* FEE CONCESSION & SCHOLARSHIP	54,51,138
CAPITAL EXPENDITURE:	
* COMPUTER AND SOFTWARE	73,56,107
* CCTV	3,05,124
* FURNITURES & FIXTURES	25,84,747
* GENERATOR & UPS	4,72,700
* LIBRARY BOOKS	4,91,106
* OFFICE EQUIPMENT	5,06,816
* ELECTRONIC EQUIPMENTS	27,67,102
* LAB EQUIPMENTS	43,759
* BUILDING - WIP	1,31,25,094
* SOLAR PANEL	81,49,912
Total Rs. C/O	25,17,54,654

JAYALAKSHMIPURAM, MYSORE

Page 2

For L.R. Prakash & Co.
Chartered Accountants
G.V. Srinivasa
Partner
M.NO 200624
Firm Regn. No. 002733S

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MAHAJANA EDUCATION SOCIETY®

JAYALAKSHMIPURAM, MYSORE

CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2024

Page 2

PAYMENTS	AMOUNT
B/F Rs.	25,17,54,654
OTHER PAYMENTS:	
* FIXED DEPOSIT MADE	9,90,36,757
* STAFF LOAN PAID	4,08,000
* OTHER ADVANCES	4,51,17,238
* TDS BY OTHERS	6,76,973
* SUNDRY DEBTORS	43,89,712
* PROVISIONS PAID(2022-23)	9,88,03,635
* SUNDRY CREDITORS	5,47,58,786
* SECURITY DEPOSIT PAID	12,08,454
* LOANS , ADVANCES & DEPOSITS(LB)	17,87,000
* OTHER FUNDS	3,45,125
* P.G CENTRE ACCOUNT	2,28,55,371
* MAHAJANA PUBLIC SCHOOL - CBSE	53,15,806
* SBRR FGC & TOURISM ADVANCE	3,16,58,007
* ENDOWMENT DEPOSIT	5,50,000
CLOSING BALANCE:	
* CASH IN HAND	17,45,552
* CASH AT BANK	2,68,74,355
* UGC GRANT ACCOUNT	32,231
* INSTITUTION BANK BALANCE	1,25,23,403
TOTAL RS.	65,98,39,059

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, Mysuru - 570 012

CONSOLIDATED INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2024

PREV. YEAR	PARTICULARS	Sch. No.	AMOUNT	AMOUNT
	I - OPERATING INCOME			
19,89,84,505	FEES COLLECTED	1	19,15,99,816	
3,54,35,950	OTHER RECEIPTS	2	3,20,37,156	
36,76,985	HOSTEL RECEIPTS	3	25,23,650	
23,80,97,440				22,61,60,622
	II - REVENUE EXPENSES			
14,25,47,957	SALARIES & ALLOWANCES	4	14,80,83,736	
80,41,524	ADMINISTRATIVE EXPENSES	5	91,09,388	
15,35,720	FEST, CONFERENCE & PROGRAMMES	6	16,10,116	
53,570	FINANCIAL CHARGES	7	84,895	
12,01,902	PRINTING & STATIONERY	8	8,25,639	
54,45,514	RATES, FEES & TAXES	9	57,62,153	
1,07,28,562	REPAIRS & MAINTENANCE	10	1,41,97,263	
86,09,190	STUDENTS WELFARE EXPENSES	11	89,10,110	
16,59,337	HOSTEL EXPENSES	12	4,01,413	
62,75,450	FEES REMITTED TO UOM/GOVT	13	94,03,536	
63,13,631	INSTITUTION FEES EXPENSES		27,30,663	
	FEE CONCESSION & SCHOLARSHIP		54,51,138	
1,92,79,706	CONTINGENCY RESERVE FUND		93,74,514	
				21,59,44,565
1,51,50,028	DEPRECIATION	XII	1,92,42,075	
(8,89,917)	LESS : DEPN. ON GRANT AMOUNT		(7,08,995)	
				1,85,33,080
1,21,45,266	III - GROSS SURPLUS/(DEFICIT)			(83,17,023)
	IV - NON OPERATING INCOME			
91,63,184	INTEREST INCOME	14	1,19,68,442	
15,49,550	RENTAL INCOME	15	15,57,706	
				1,35,26,148
2,28,58,000	V - NET SURPLUS/(DEFICIT)			52,09,125

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

CONSOLIDATED BALANCE SHEET AS AT 31-03-2024

PREV. YEAR	LIABILITES	SCH. NO.	AMOUNT
25,52,28,686	CAPITAL FUND:	I	25,97,28,816
7,93,31,621	OTHER FUNDS	II	9,35,69,324
	CURRENT LIABILITES:		
36,24,262	LOANS, ADVANCES & DEPOSITS	III	65,82,144
18,85,865	PROVISIONS	IV	19,10,950
1,61,812	SUNDRY CREDITORS	V	1,54,932
34,02,32,247	TOTAL RS.		36,19,46,167
PREV. YEAR	ASSETS	SCH.NO	AMOUNT
5,02,02,327	CASH IN HAND & AT BANKS	VI	4,11,75,544
49,00,990	SECURITY DEPOSITS	VII	58,93,444
16,56,16,698	FIXED DEPOSITS & INVESTMENTS	VIII	16,92,30,913
46,80,772	ENDOWMENT DEPOSITS	IX	52,30,772
64,22,758	LOANS & ADVANCES	X	1,55,65,858
4,00,040	SUNDRY DEBTORS	XI	3,82,277
10,80,08,662	FIXED ASSETS	XII	12,44,67,359
34,02,32,247	TOTAL RS.		36,19,46,167

(T. Muralidhar Bhagavat) (Dr. T. Vijayalakshmi Muralidhar) (N. Vijaya Kumar)
President Hon. Secretary Treasurer

For L.R. Prakash & Co.
Chartered Accountants
G.V. Srinivasa
Partner
M.NO 200624
Firm Regn. No. 0027335

L.R. PRAKASH & CO
CHARTERED ACCOUNTANTS
NO. 138/A, 1st FLOOR, RAMAVILAS ROAD
MYSORE- 570 004

PHONE: 0821-3511175

DATE: 28-08-2023

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 31-03-2023. 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®
JAYALAKSHMIPURAM, MYSORE

CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2023

Page 1

RECEIPTS	AMOUNT
TO OPENING BALANCE:	
" CASH IN HAND	3,21,109
" BANK BALANCE	4,40,15,141
" UGC GRANT ACCOUNT	32,224
" INSTITUTION BANK BALANCE	1,15,02,087
REVENUE INCOME :	
" FEES COLLECTED	19,27,97,060
" OTHER RECEIPTS	3,54,35,950
" INTEREST INCOME	91,63,184
" RENTAL INCOME	15,49,550
" HOSTEL RECEIPTS	36,76,985
OTHER RECEIPTS	
" SECURITY DEPOSITS	14,57,021
" FIXED DEPOSIT ENCASHED	4,11,03,036
" OTHER ADVANCES RECOVERED	1,38,13,677
" STAFF LOAN RECOVERED	4,89,610
" SUNDRY DEBTORS	64,84,592
" BUILDING FUND	10,61,420
" G-J C COLLECTION - PUC	2,16,900
" PROVISIONS DURING THE YEAR	9,18,59,696
" SUNDRY CREDITORS	4,35,12,933
Total Rs. C/O	49,84,92,175

2022-2023

MAHAJANA EDUCATION SOCIETY®

JAYALAKSHMIPURAM, MYSORE

CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2023

Page 1

PAYMENTS	AMOUNT
BY REVENUE EXPENDITURE:	
" SALARIES & ALLOWANCES	14,25,47,957
" ADMINISTRATIVE EXPENSES	8041,524
" FEST, CONFERENCE & PROGRAMMES	15,35,720
" FINANCIAL CHARGES	53,570
" PRINTING & STATIONERY	12,01,902
" RATES, FEES & TAXES	54,45,514
" REPAIRS & MAINTENANCE	1,07,28,562
" STUDENTS WELFARE EXPENSES	86,09,190
" HOSTEL EXPENSES	16,59,337
" FEES REMITTED TO UOM\GOVT	1,25,89,081
" CONTINGENCY EXPENSES	192,79,706
CAPITAL EXPENDITURE:	
" COMPUTER AND SOFTWARE	40,04,634
" CCTV	1,95,137
" FURNITURES & FIXTURES	25,01,097
" GENERATOR & UPS	9,10,536
" LIBRARY BOOKS	4,25,255
" OFFICE EQUIPMENT	6,05,961
" ELECTRONIC EQUIPMENTS	28,89,173
" LAB EQUIPMENTS	7,31,064
" BUILDING - WIP	1,31,58,762
" LIFT	86,140
" FIRE HYDRANT SYSTEM	12,97,120
" SCHOOL BUS	25,23,142
" PUBLIC ADDRESS SYSTEM	14,450
Total Rs. C/O	24,10,34,534

MAHAJANA EDUCATION SOCIETY®

JAYALAKSHMIPURAM, MYSORE

CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2023

Page 2

RECEIPTS	AMOUNT
B/F Rs.	49,84,92,175
" TDS BY OTHERS	22,90,304
" EARMARKED DONATION	26,20,000
" OTHERS FUNDS	19,48,874
" MES FGC ADVANCE	4,24,49,185
" MES PGC ADVANCE	2,94,75,422
" MAHAJANA PUBLIC SCHOOL CBSE	93,07,926
" MES UGC ADVANCE	19,63,428
" CONTINGENCY RESERVE FUND	1,92,79,707
" PJPC RECEIPTS	6,57,297
" R VASUDEVAMURTHY MEMORIAL FUND	7,14,546
" LIFE MEMBERSHIP FEES RECEIVED	10,000
CLOSING BALANCE:	
Bank OD A/c	7,623
TOTAL Rs.	60,92,16,487

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

2022-2023

MAHAJANA EDUCATION SOCIETY®

JAYALAKSHMIPURAM, MYSORE

CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2023

Page 2

PAYMENTS	AMOUNT
B/F Rs.	24,10,34,534
OTHER PAYMENTS	
" STAFF LOAN PAID	5,69,200
" FIXED DEPOSIT MADE	6,43,57,732
" OTHER ADVANCES	1,57,83,815
" TDS BY OTHERS	10,77,504
" SUNDRY DEBTORS	59,18,807
" PROVISIONS PAID(2021-22)	10,15,09,596
" SUNDRY CREDITORS	4,35,62,305
" SECURITY DEPOSIT PAID	3,88,611
" ENDOWMENT DEPOSIT	23,70,000
" EMPLOYEES RECOVERIES FBF/LIC/IT/PT ETC	77,348
" OTHER FUNDS	11,32,179
" P.G CENTRE ACCOUNT	2,94,75,421
" MAHAJANA PUBLIC SCHOOL - CBSE	93,14,926
" SBRR FGC & TOURISM ADVANCE	4,24,42,185
CLOSING BALANCE:	
" CASH IN HAND	3,87,352
" CASH AT BANK	3,74,69,879
" UGC GRANT ACCOUNT	16,434
" INSTITUTION BANK BALANCE	1,23,28,658
TOTAL RS.	60,92,16,487

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

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MAHAJANA EDUCATION SOCIETY®

Jayalakshmipuram, Mysuru - 570 012

CONSOLIDATED INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2023

PREV. YEAR	PARTICULARS	Sch. No.	AMOUNT	AMOUNT
	I - OPERATING INCOME			
17,88,48,807	FEES COLLECTED	1	19,27,97,060	
5,15,400	OTHER RECEIPTS	2	3,54,35,950	
25,83,790	HOSTEL RECEIPTS	3	36,76,985	
18,19,47,997				23,19,09,995
	II - REVENUE EXPENSES			
9,65,69,560	SALARIES & ALLOWANCES	4	14,25,47,957	
84,18,526	ADMINISTRATIVE EXPENSES	5	80,41,524	
1,29,402	FEST, CONFERENCE & PROGRAMMES	6	15,35,720	
65,746	FINANCIAL CHARGES	7	53,570	
4,44,709	PRINTING & STATIONERY	8	12,01,902	
30,92,153	RATES, FEES & TAXES	9	54,45,514	
2,00,18,815	REPAIRS & MAINTENANCE	10	1,07,28,562	
12,33,181	STUDENTS WELFARE EXPENSES	11	86,09,190	
15,55,464	HOSTEL EXPENSES	12	16,59,337	
59,05,450	FEES REMITTED TO UOM\GOVT	13	1,25,89,081	
1,78,84,881	CONTINGENCY RESERVE FUND		1,92,79,706	
				21,16,92,063
2,51,28,312	DEPRECIATION	XII	1,51,50,028	
(9,56,001)	LESS : DEPN. ON GRANT AMOUNT		(8,89,917)	
				1,42,60,111
24,57,799	III - GROSS SURPLUS/(DEFICIT)			59,57,821
	IV - NON OPERATING INCOME			
69,38,160	INTEREST INCOME	14	91,63,184	
12,95,257	RENTAL INCOME	15	15,49,550	
			1,07,12,734	
1,06,91,216	V - NET SURPLUS/(DEFICIT)			1,66,70,555

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

CONSOLIDATED BALANCE SHEET AS AT 31-03-2023

PREV. YEAR	LIABILITES	SCH. NO.	AMOUNT
23,75,51,968	CAPITAL FUND:	I	25,52,28,686
5,46,79,866	OTHER FUNDS	II	7,93,31,620
	CURRENT LIABILITES:		
28,92,058	LOANS, ADVANCES & DEPOSITS	III	36,24,262
1,15,35,766	PROVISIONS	IV	18,85,866
2,11,183	SUNDRY CREDITORS	V	1,61,811
30,68,70,841	TOTAL RS.		34,02,32,245
PREV. YEAR	ASSETS	SCH.NO	AMOUNT
5,58,70,563	CASH IN HAND & AT BANKS	VI	5,02,02,323
59,59,629	SECURITY DEPOSITS	VII	49,00,990
14,23,62,002	FIXED DEPOSITS & INVESTMENTS	VIII	16,56,16,698
23,10,772	ENDOWMENT DEPOSITS	IX	46,80,772
55,85,830	LOANS & ADVANCES	X	64,22,758
9,65,826	SUNDRY DEBTORS	XI	4,00,040
9,38,16,219	FIXED ASSETS	XII	10,80,08,662
30,68,70,841	TOTAL RS.		34,02,32,245

(T. Muralidhar Bhagavat) (Dr. T. Vijayalakshmi Muralidhar) (N. Vijaya Kumar)
 President Hon. Secretary Treasurer

For L.R. Prakash & Co.
 Chartered Accountants
 G.V. Srinivasa
 Partner
 M.NO 200624
 Firm Regn. No. 002733S

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.

VIJAYALAKSHMI
 MURALIDHAR

Digitally signed by
 VIJAYALAKSHMI
 MURALIDHAR
 Date: 2023.05.23
 14:38:07 +05'30'

FOR L.R. PRAKASH & CO
 CHARTERED ACCOUNTANTS
 Firm Regn. No. 02733s

DIRECTOR
 SBRR MAHAJANA P.G. COLLEGE
 (JAYALAKSHMIPURAM)
 POST GRADUATE WING
 PBM MAHAJANA EDN. CENTRE
 KRS Rd., Metagalii, MYS-570016

(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.


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

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
	I - OPERATING INCOME			
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	
13,28,87,824				18,20,95,501
	II - REVENUE EXPENSES			
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	
				15,53,97,891
1,67,17,857	DEPRECIATION	XII	2,51,28,312	
(16,13,639)	LESS : DEPN. ON GRANT AMOUNT		(9,56,001)	
				2,41,72,311
(73,84,098)	III - GROSS SURPLUS/(DEFICIT)			25,25,298
	IV - NON OPERATING INCOME			
77,32,104	INTEREST INCOME	14	67,90,656	
11,84,508	RENTAL INCOME	15	12,95,257	
				80,85,913
15,32,514	V - NET SURPLUS/(DEFICIT)			1,06,11,211

For L.R. Prakash & Co.
Chartered Accountants
G.V. Srinivasa
Partner
M.NO 200624
Firm Regn. No. 0027335

(T. Muralidhar Bhagavat) (Dr. T. Vijayalakshmi Muralidhar) (N. Vijaya Kumar)
President Hon. Secretary Treasurer

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
BY REVENUE EXPENDITURE:	
" 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
CAPITAL EXPENDITURE:	
" 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
Total C/F Rs.	16,46,79,230

DIRECTOR
MAHAJANA EDUCATION SOCIETY
JAYALAKSHMIPURAM, MYSORE

MAHAJANA EDUCATION SOCIETY®

JAYALAKSHMIPURAM, MYSORE

CONSOLIDATED RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDING 31-03-2022

Page 2

RECEIPTS	AMOUNT
B/F Rs.	45,38,84,946
* 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
TOTAL Rs.	59,29,07,309

(T. Muralidhar Bhagavat)
President

(Dr. T. Vijayalakshmi Muralidhar)
Hon. Secretary

(N. Vijaya Kumar)
Treasurer

For L.R. Prakash & Co.
Chartered Accountants
G.V. Srinivasa
Partner
M.NO 200624
Firm Regn. No. 002733S

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

(T. Muralidhar Bhagavat)
President(Dr. T. Vijayalakshmi Muralidhar)
Hon. Secretary(N. Vijaya Kumar)
TreasurerFor L.R. Prakash & Co.
Chartered Accountants
G.V. Srinivasa
Partner
M.NO 200624
Firm Regn. No. 002733S

MAHAJANA EDUCATION SOCIETY®
JAYALAKSHMIPURAM, MYSORE

**SCHEDULE TO INCOME & EXPENDITURE ACCOUNT
FOR THE YEAR ENDED 31-03-2022**

FEES COLLECTED	SCH 1
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
TOTAL Rs.	17,88,48,807
OTHER RECEIPTS	SCH 2
MISC RECEIPTS	242,134
OTHER RECEIPTS	357,770
DONATION RECEIVED	63,000
TOTAL Rs.	6,62,904
HOSTEL RECEIPTS	SCH 3
LADIES HOSTEL RECEIPTS	14,53,290
BOY'S HOSTEL RECEIPTS	11,30,500
TOTAL Rs.	25,83,790
SALARIES & WAGES	SCH 04
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
TOTAL Rs.	9,65,69,560

DIRECTOR
SRI MAHAJANA F.G. COLLEGE
JAYALAKSHMIPURAM, MYSORE
WING

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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
	CURRENT LIABILITES:		
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	Total Rs.		30,70,89,381
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	Total Rs.		30,70,89,381

For L.R. Prakash & Co.
Chartered Accountants
G.V. Srinivasa
Partner

M.NO 200624
Firm Regn. No. 002733S

(T. Muralidhar Bhagavat)
President

(Dr. T. Vijayalakshmi Muralidhar)
Hon. Secretary

(N. Vijaya Kumar)
Treasurer

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