MANDATORY DISCLOSURE - 2021-2022

SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING, SHEGAON – 444 203   DIST – BULDANA [MAHARASHTRA STATE] INDIA

Mandatory Disclosure updated on:

AICTE File No.

F.No. Western/1-9318396547/2021/EOA

Date & Period of last approval

10-Jul-2021

1. **Name of the Institution** (Address including Telephone, Mobile, E-Mail)

Name of the Institution	SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING
Address of the Institution	KHAMGAON ROAD
City & Pin Code	SHEGAON – 444 203
State / UT	MAHARASHTRA
Phone Number	8669638081, 8669638082
Email	principal@ssgmce.ac.in

2. **Name & Address of the Trust** (Address including Telephone, Mobile, E-Mail)

Name of the Trust	SHRI GAJANAN SHIKSHAN SANSTHA
Address of the Institution	SSGMCE CAMPUS, KHAMGAON ROAD
City & Pin Code	SHEGAON – 444 203
State / UT	MAHARASHTRA
Phone Number	8669638081, 8669638082
Email	principal@ssgmce.ac.in

3. **Name & Address of the Principal** (Address including Telephone, Mobile, E-Mail)

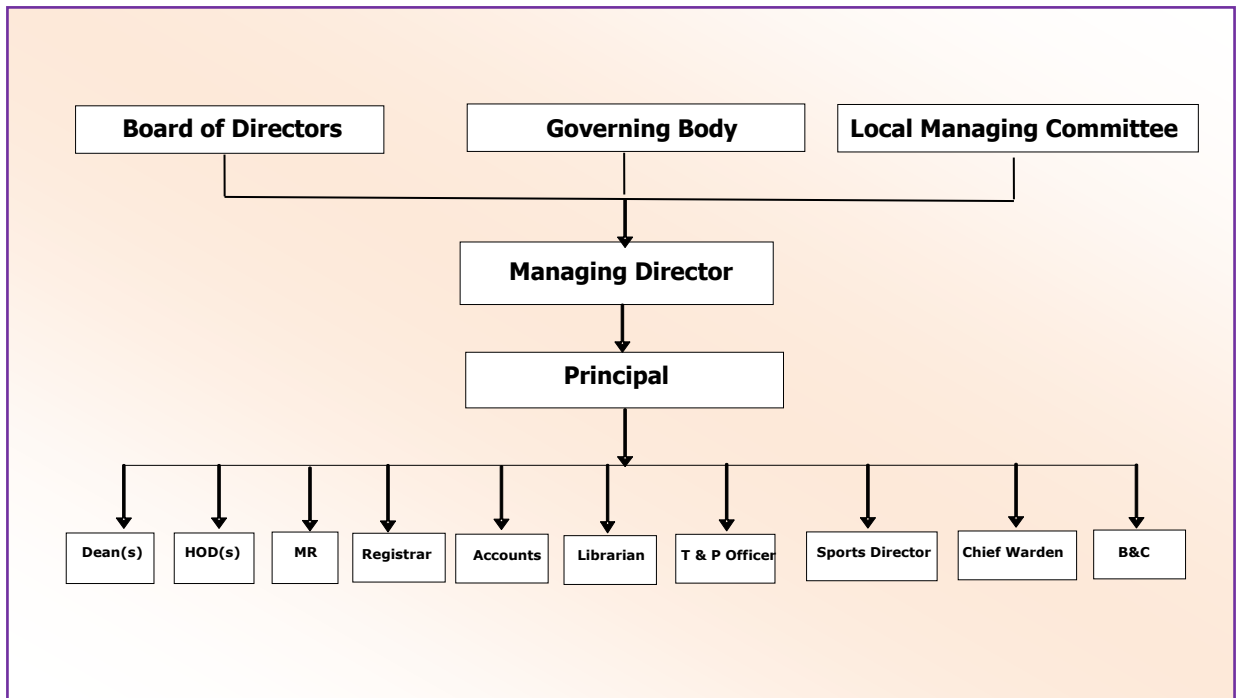|	
Name of Principal	DR. SUNIL BHIKAMCHAND SOMANI
Address of the Principal	PRINCIPAL'S BUNGLOW, SSGMCE CAMPUS, KHAMGAON ROAD
City & Pin Code	SHEGAON – 444203, DIST-BULDHANA (M.S.)
Mobile No.	9422182216
Email	principal@ssgmce.ac.in

4. Name of the Affiliating University

Name of the affiliating University	SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
Address	TAPOWAN, UNIVERSITY CAMPUS, AMRAVATI
	PIN – 444 602, DIST.: – AMRAVATI (MAHARASHTRA)
Website	www.sgbau.ac.in

5. Governance

- **Members of the Board and their brief background**

1	Shri Nilkanth Shivshankar Patil	:	Chairman & Ex-officio Chairman
2	Shri Shrikant Shivshankar Patil	:	Member (Sanstha)
3	Shri Kishor Trikandas Tank	:	Member (Sanstha)
4	Shri Sharad Mahadeo Shinde	:	Member (Sanstha)
5	Shri Mahendrasingh Swindersingh Anand	:	Member (Sanstha)
6	Dr. M. Atik	:	Member
			(Nominee of Affiliating University, Amravati)
7	Dr. Abhay Wagh	:	Member (Ex-Officio)
			Director of Technical Education
			(Nominee of the State Government)
8	Shri Vikaschandra Rastogi	:	Member
			(Nominated by the State Government
9	Dr. Sunil Bhikamchand Somani	:	Member Secretary
			(Principal of the Institute)
1.	Dr. Shivshankar Pandurang Trikal	:	Member (Professor of the Institute)
11	Dr. Ravindra Shankarrao Pote	:	Member (Associate Professor of the Institute)

- **Orgational Chart and Processes**

Processes:

- **Nature and Extend of involvement of Faculty and students in academic affairs/improvements.**

  - ➢ Faculty is encouraged to apply and obtained research grant from various Government, Non Gavernment, Research Funding Agencies such as AICTE, UGC, & Affiliating University etc.
  - ➢ Increasing Faculty and Student publications by providing financial assistance.
  - ➢ An Industry Institute Interaction Cell works in close coordination with the Industries and the Institute for encouraging both students and Faculty to work on live projects.
  - ➢ Inhouse Development of both Laboratory Equipment & Software.
  - ➢ The Institute believes that we have a responsibility to words society and that technology should be brought to the community. National Social Service activities make students responsible towards society and develop into responsible citizens.
  - ➢ The Institute has adopted a village under NSS Programme. Several development activities have been taken up by SSGMCE Students involving and engaging the villages.
  - ➢ Human Resource Management – SSGMCE belives that faculty and supporting staffs are the backbone of the Institute and that its success depends on the quality of Human Resources.
  - ➢ To provide Industry exposure to students through training / Internship in Industry, Industry Visits and enable them to pick up skills besides what is beaing imparted in the class rooms.

- **Mechanism / Norms and Procedure for democratic/ good Governance**

  - ➢ In order to make the work of the college timely and accurate, the Deans, HOD's, Regitrar, Coordinators are appointed at college level. The Roles and responsibilities of authorities for various assigned jobs listed below-

- Principal – To implement and monitor the education system to cater to the Institutes Mission & Vision
- Dean (Academics) – Responsible for Academic development of the college and monitors progress of various Teaching Learning Process. Preparation of the Academic Calendar.
- Dean (Examinations) – Responsible for Examinations of the college leval and Affiliating University Examnations both theory & practical.
- Dean (Quality Assurance) – Responsible for monitoring day-to-day academic activities and assuring quality in Teaching Learning Process.
- HOD's – Responsible for academic and administrative functions of the departments.
- Registrar – Responsible for administrative related issues work of the college.
- Coordinators/Counselors) – Responsible for any activity assigned by the higher authorities.

- **Student Feedback on Institutional Governance / Faculty Performance**

  - Online format has been introduced to have a feedback from the students to assess the performance of the faculty members. This practice has been applied twice in a year (every semester). The feedback is shared with the faculty members to help them to improve their teaching performance.

    Further self appraisal of faculty performance form are regularly taken and reviewed every year.

- **Grievance Redressal mechanism for Faculty , staff and students**

  - In order to provide opportunities for Redressal of Ceartain Grivances of students and faculty, the SSGMCE formed Grievance Redressal Committee for students and faculty.
  - Publication of Institution Prospectus include Admission Information, List of Courses with Intake, Criateria for Admission, about Fees & other charges, faculty details, information with regard to physical and academic infracturear and all relevant instructions regarding the maintain the discipline.
  - Appointment of Ombudsman
  - On receipt of an online complaint, the Institution refers the complaint to the appropriate student / faculty grievance redressal committee on or before ten days.
  - The committee fix a date for hearing the complaint
  - An aggrieved person may appear in person to present the case.
  - Grievance not resouled by the committee shall be refered to the ombudsman.
  - The ombudsman may recommend action against the complainant, where a complaint is found to be false.

- **Establishment of Anti Ragging Committee**

SN	NAME	POST
01	Dr. S.B. Somani	Chairman
02	Dr. H.M. Jha "Bidyarthi"	Member
03	Dr. N.A. Patil	Member
04	Dr. S.R. Paraskar	Member
05	Dr. M. N.Tibdewal	Member
06	Dr. S.B. Patil	Member
07	Dr. S.P. Trikal	Member
08	Prof. A.S. Manekar	Member
09	Prof. A.V. Patil	Member
10	Dr. R.M. Kharate	Member Secretary

- **Establishment of Grievance Redressal Committee in the Institution**

SN	NAME	POST
01	Dr. S.B. Somani	Chairman (Head of the Institution [HOI)
02	Dr. N.A. Patil	Member (Head of the Concernd Department Nominated by the HOI)
03	Dr. S.R. Paraskar	Member (Head of the Concernd Department Nominated by the HOI)
04	Dr. S.P. Trikal	Member (Head of the Concernd Department Nominated by the HOI)
05	Dr. M. N.Tibdewal	Member (Head of the Concernd Department Nominated by the HOI)
06	Dr. S.B. Patil	Member (Head of the Concernd Department Nominated by the HOI)
07	Prof. A.S. Manekar	Member (Head of the Concernd Department Nominated by the HOI)
08	Dr. H.M. Jha "Bidyarthi"	Member (Head of the Concernd Department Nominated by the HOI)
09	Prof. A.V. Patil	Member (Registrar,Nominated by the HOI)

- **Establishment of Internal Complaint Committee (ICC)**

SN	NAME	POST
01	Dr. S.B. Somani	Chairman
02	Prof. D.L. Bhombe	Member
03	Prof. V.M. Umale	Member
04	Dr. H.M. Jha "Bidyarthi"	Member
05	Dr. N.A. Patil	Member
06	Dr. S.R. Paraskar	Member
07	Dr. M. N.Tibdewal	Member
08	Dr. S.B. Patil	Member
09	Dr. S.P. Trikal	Member
10	Prof. A.S. Manekar	Member
11	Prof. A.V. Patil	Member
12	Prof. Mrs. Priti Kale	Member Secretary

- **Establishment of Committee for SC/ST**

SN	NAME	POST
01	Dr. P.R. Wankhade`	Chairman
02	Prof. A.S. Alane	Member
03	Prof. P.M. Kuchar	Member
04	Dr. Dheeraj Tulaskar	Member
05	Prof. A.S. Bharule	Member Secretary

- **Internal Quality Assurance Cell**

SN	Nature of Membership	Name
1	Chairperson (Head of the Institution)	Dr. S.B. Somani - Principal
2	Teachers (Teachers to represent at all level) [Three to Eight]	Dr. S.P. Trikal - HOD, MECH
3		Dr. S.R. Paraskar - HOD, ELPO
4		Dr. S.B. Patil - HOD, CSE
5		Dr. M.N. Tibdewal - HOD,EXTC
6		Prof. A.S. Manekar - HOD, IT
7		Dr. N.A. Patil - HOD, ASH
8		Dr.H.M.Jha"Bidyarthi" - HOD, MBA
9	Management (One member from the Management)	Shri Shrikant Shivshankar Patil - Director
10	Senior Administrative Officers (Few Senior Administrative Officers)	Prof. A.V. Patil - Registrar
11		Prof. D.L. Bhombe - Dean, Academics
12		Prof. V.M. Umale - Dean, Exams.
13	One nominee each from Local Society, Students and alumni	Dr. Santosh Bothe - Local Society
14		Shri Umesh Kaul - Alumni
15		Tejas Nagorao Bhoinwad - Student (Third Year Electrical Engg.)
16	One nominee each from Employers / Industrialists/Stakeholders	Dr. Pramod Chopade - Employer
17		Shri D.N. Dharurkar - Industrialist
18		Shri Sharad M. Shinde - Stakeholder
19	One of the Senior teacher as the Co-ordinators of The IQAC	Dr. (Mrs.) A.U. Jawadekar - Co-ordinator

Programmes

- **Name of Programmes approved by AICTE**

Programmes	Level	Course	Intake Approved 2021-22
Engineering Technology	Under Graduate	Computer Science And Engineering	60
		Electronics and Telecommunication Engineering	120
		Mechanical Engineering	60
		Electrical Engineering (Electronics and Power)	60
		Information Technology	60
	Post Graduate	Electrical Power System	18
		Digital Electronics	18
		Computer Engineering	18
		Advanced Manufacturing and Mechanical System Design	18
Management	Post Graduate	M.B.A.	60

- **NBA Accredtation Status –**

a. No. of Courses for which applied for Accreditation

Programmes	Level	Course	Period of Validity
Engineering Technology	UG	B.E. Computer Science And Engineering	Academic Years 2019-2020 to 2021-2022 i.e. up to 30-06-2022 (3 Years)
		B.E. Electrical Engineering (Electronics and Power) Engineering	
		B.E. Mechanical Engineering	
		B.E. Electronics and Telecommunication Engineering	

b. Applied for Accreditation

Applied & Rejected (PG)	M.B.A.

c. Applied for Accreditation

A. Applied but visit not happened	---
B. Visit happened but result awaited	----

d. List of Programme / courses not applied

List of Programme / courses not applied (UG)	Information Technology
List of Programme / courses not applied (PG)	Electrical Power System
	Digital Electronics
	Computer Engineering
	Advanced Manufacturing and Mechanical System Design

- **NAAC Accredtation Status – Not Applied**

- **Total number of Courses**

Programmes	Level	Number of Course
Engineering Technology	UG	05
	PG	04
Management	PG	01

- **For each Programme the following details are to be given (Preferably in Tabular form):**

➢ **Name of the Programme, Courses, Numbar of Seats & Duration**

Programme	Level	Courses	Number of Seats (Intake)	Duration
Engineering Technology	UG	Computer Science and Engineering	60	04 Years
		Electrical Engineering (Electgronics and Power)	60	
		Electronics & Telecommuniation Engineering	120	
		Mechanical Engineering	60	
		Information Technology	60	
	PG	Electrical Power System	18	02 Years
		Digital Electronics	18	
		Computer Engineering	18	
		Advanced Manufacturing &Mech.System Design	18	
Management	P.G.	M.B.A.	60	02 Years

Cut off marks / rank of admission during the last three years

SN	Department	2018-19		2019-20		2020-21	
		High	Low	High	Low	High	Low
Engineering Technology (UG)							
01	Computer Science and Engineering	131	49	97.43	34.25	98.94	27.87
02	Electrical Engineering (Electgronics and Power)	128	51	92.90	21.00	89.11	38.73
03	Electronics & Telecommuniation Engineering	113	48	93.87	20.59	88.87	20.21
04	Mechanical Engineering	113	48	93.46	15.77	89.48	23.50
05	Information Technology	121	59	95.08	22.00	94.34	67.47
Engineering Technology (PG)							
06	Electrical Power System	18	3	8.67	4.67	40.4	10.33
07	Digital Electronics	6	1	11.33	8.33	6	0.33
08	Computer Engineering	16	2	66.5	0.67	20	5.33
09	Advanced Manufacturing and Mechanical System Design	12.24	3.82	81.85	1.3	52.02	5.23
Management (PG)							
10	M.B.A.	--	--	84.00	32.00	98.74	26.00

Fee (as approved by the State Government) 2021-22

SN	Department	Fee (Approved by the State Government) 2021-22
Engineering Technology (UG)		
01	Computer Science and Engineering	Rs.1,20,000/- (Rs. One Lack Twenty Thousand Only)
02	Electrical Engineering (Electgronics and Power)	
03	Electronics & Telecommuniation Engineering	
04	Mechanical Engineering	
05	Information Technology	
Engineering Technology (PG)		
06	Electrical Power System	Rs.53000/- (Rs. Fifty Three Thousand Only)
07	Digital Electronics	
08	Computer Engineering	
09	Advanced Manufacturing and Mechanical System Design	
Management (PG)		
10	M.B.A.	Rs.100000/- (Rs. One Lack Only)

➤ Placement Facility

The placement record of the SSGMCE has always been very impressive. A good percentage of students get jobs in leading companies every year. The institution also has separate Entrepreneurship Development Cell where students explore their hidden potential through different trainings.

Activities carried out by T&P Department regularly

1. Counseling Session for getting ready for placement.
2. Arranging Guest Lectures by Eminent Persons / Alumni / Entrepreneur / Industrial
3. Faculty Development Programme by outside agencies as well as in-house faculty members.
4. Spoken English and Soft Skill Programme and Training.
5. Arranging Campus/Off-Campus Placement Drives.
6. Arranging Mock Aptitude Tests and Aptitude Counseling Sessions.
7. Helping students get live industrial projects from India & Abroad as well.
8. Facilitating students to do Summer/Winter Industrial Training.
9. Organizing Parent Meet and Farewell function.
10. Organizing Entrepreneurship / Leadership Development Programm

➤ Campus placement in last three years with minimum salary, maximum salary and average salary

Year	Placement	Minimum Salary	Maximum Salary	Average Salary
B.E. Computer Science and Engineering				
2018-19	41	Rs. 1.80 LPA	Rs. 3.36 LPA	Rs. 2.90 LPA
2019-20	69	Rs. 2.25 LPA	Rs. 5.00 LPA	Rs. 3.65 LPA
2020-21	64	Rs. 2.75 LPA	Rs. 6.00 LPA	Rs. 3.88 LPA
B.E. Information Technolog				
2018-19	44	Rs. 1.80 LPA	Rs. 7.00 LPA	Rs. 2.94 LPA
2019-20	45	Rs. 2.00 LPA	Rs. 10.00 LPA	Rs. 3,75 LPA
2020-21	75	Rs. 2.52 LPA	Rs. 10.00 LPA	Rs. 4.23 LPA
B.E. Electronics and Telecommunication Engineering				
2018-19	102	Rs. 1.80 LPA	Rs. 4.50 LPA	Rs. 2.48 LPA
2019-20	54	Rs. 1.80 LPA	Rs. 10.00 LPA	Rs. 4.28 LPA
2020-21	109	Rs. 2.40 LPA	Rs. 7.00 LPA	Rs. 3.73 LPA
B.E. Mechanical Engineering				
2018-19	31	Rs. 1.80 LPA	Rs. 4.50 LPA	Rs. 2.01 LPA
2019-20	39	Rs. 1.80 LPA	Rs. 10.00 LPA	Rs. 3.07 LPA
2020-21	38	Rs. 1.80 LPA	Rs. 10.00 LPA	Rs. 3.02 LPA
B.E. Electrical Engineering (Electronics and Power)				
2018-19	63	Rs. 1.80 LPA	Rs.4.50 LPA	Rs.2.30 LPA
2019-20	36	Rs. 1.80 LPA	Rs. 10.00 LPA	Rs. 3.75 LPA
2020-21	49	Rs. 2.40 LPA	Rs. 4.50 LPA	Rs. 3.37 LPA

• Foreign Collaborations, if any

No

7. Faculty

- **Course/Branch wise list Faculty members:**
- **Permanent Faculty**

SN	Name of the Faculty	Designation	Qualification
01	Dr.S.B. Somani	Principal	M.E., Ph.D.
Department of Electrical Engineering (Electronics and Power) (UG/PG)			
02	Dr. S.R. Paraskar	Professor	M.E., Ph.D.
03	Dr. R.S. Pote	Associate Professor	M.E., Ph.D.
04	U.A. Jawadekar	Associate Professor	M.E.
05	Dr. A.U. Jawadekar	Associate Professor	M.E., Ph.D.
06	R.Z. Fulare	Assistant Professor	M.E.
07	P.R. Bharambe	Assistant Professor	M.E.
08	R.S. Kankale	Assistant Professor	M.E.
09	Dr. S.S. Jadhao	Assistant Professor	M.E., Ph.D.
10	M.R. Chavan	Assistant Professor	M.E.
11	R.K. Mankar	Assistant Professor	M.E.
12	Dr.Ajay Kumar Damral	Assistant Professor	M.E., Ph.D.
13	G.N. Bonde	Assistant Professor	M.E.,
14	B.S. Rakhonde	Assistant Professor	M.E.
15	P.R. Dhabe	Assistant Professor	M.Tech.
16	V.S. Karale	Assistant Professor	M.E.
Department of Electronics and Telecommunication Engineering (UG/PG)			
17	Dr. M.N. Tibdewal	Professor	M.E., Ph.D.
18	Dr. K.B. Khanchandani	Professor	M.E., Ph.D.
19	Dr. R.S. Dhekekar	Professor	M.E., Ph.D.
20	Dr. S.B. Patil	Professor	M.E., Ph.D., MBA
21	V.M. Umale	Associate Professor	M.Tech
22	V.N. Bhonge	Associate Professor	M.E.
23	D.L. Bhombe	Associate Professor	M.S.
24	Dr. D.D. Navgaje	Associate Professor	M.E., Ph.D.
25	Dr. Bhavana P. Harne	Assistant Professor	M.E., Ph.D.
26	Dr. D.P. Tulaskar	Assistant Professor	M.E., Ph.D.
27	Dr. P.R. Wankhede	Assistant Professor	M.E., Ph.D.
28	A.N. Dolas	Assistant Professor	M.E.
29	Dr. V.V. Ratnaparkhi	Assistant Professor	M.Tech, Ph.D.
30	V.K. Bhangdiya	Assistant Professor	M.Tech.
31	K.T. Kahar	Assistant Professor	M.E.
32	P.D. Kale	Assistant Professor	M.E.
33	K.S. Vyas	Assistant Professor	M.E.
34	S.P. Badar	Assistant Professor	M.E.
35	T.P. Marode	Assistant Professor	M.E.
36	V.S. Ingole	Assistant Professor	M.E.
37	S.G. Nemane	Assistant Professor	M.E.
38	Ashwini A Deshmukh	Assistant Professor	M.E.
39	S.P Satal	Assistant Professor	M.E.
40	M.B. Dhamande	Assistant Professor	M.E.

SN	Name of the Faculty	Designation	Qualification
Department of Mechanical Engineering (UG/PG)			
41	Dr. S.P. Trikal	Professor	M.E., Ph.D.
42	Dr. V.K. Thute	Associate Professor	M.Tech., Ph.D.
43	Dr. J.G. Khan	Associate Professor	M.E., Ph.D.
44	M.B. Bhambere	Assistant Professor	M.E.
45	C.V. Patil	Assistant Professor	M.E.
46	A.S. Bharule	Assistant Professor	M.Tech.
47	N.B. Borkar	Assistant Professor	M.Tech.
48	Dr. N.H. Khandare	Assistant Professor	M.E., Ph.D.
49	P.T. Patokar	Assistant Professor	M.E.
50	S.Q. Syed	Assistant Professor	M.Tech.
51	K.R. Gandhare	Assistant Professor	M.E.
52	R.V. Rajkolhe	Assistant Professor	M.E.
53	K.D. Gadgil	Assistant Professor	M.Tech.
54	K.V. Chandan	Assistant Professor	M.Tech.
55	N.G. More	Assistant Professor	M.E.
56	Piyush Dalke	Assistant Professor	M.E.
Department of Computer Science and Engineering (UG/PG)			
57	Dr. N.M. Kandoi	Associate Professor	M.S., Ph.D.
58	Dr. D.R. Dhotre	Associate Professor	M.E., Ph.D.
59	C.M. Mankar	Assistant Professor	M.E.
60	V.S. Mahalle	Assistant Professor	M.E.
61	J.M. Patil	Assistant Professor	M.Tech.
62	Dr. P.K. Bharne	Assistant Professor	M.E., Ph.D.
63	A.K. Shahade	Assistant Professor	M.E.
64	K.P. Sable	Assistant Professor	M.E.
65	Lopmudra Samual	Assistant Professor	M.E.
66	P.V. Deshmukh	Assistant Professor	M.E.
67	T.M. Untawale	Assistant Professor	M.E.
68	Deepavali P. Patil	Assistant Professor	M.E.
69	Shrijeet Pagrut	Assistant Professor	M.E.
70	Rupali Zamare	Assistant Professor	M.E.
71	Hrishikesh Deshmukh	Assistant Professor	M.E.
Department of Information Technology (UG)			
72	A.S. Manekar	Assistant Professor	M.E.
73	P.V. Kale	Assistant Professor	M.E.
74	A.G. Sharma	Assistant Professor	M.Tech.
75	Faizan Khandwani	Assistant Professor	M.E.
76	S.D. Padiya	Assistant Professor	M.E.
77	S.S. Muddalkar	Assistant Professor	M.E.
78	Pallavi Bute	Assistant Professor	M.E.
79	P.H. Gohatre	Assistant Professor	M.E.
80	K.J. Sapkal	Assistant Professor	M.E.

SN	Name of the Faculty	Designation	Qualification
Department of Applied Sciences & Humanities			
81	Dr. N.A. Patil	Professor	M.Sc., Ph.D.
82	A.V. Patil	Associate Professor	M.Sc., M.Phil
83	Dr. R.M. Kharate	Associate Professor	M.Sc., Ph.D.
84	P.I. Chaure	Associate Professor	M.E.
85	N.S. Thakare	Assistant Professor	M.Sc., M.Phil
86	A.S. Alane	Assistant Professor	M.Sc.
87	H.S. Patil	Assistant Professor	M.A., M.B.A.
88	K.P. Deshmukh	Assistant Professor	M.Sc.
89	S.V. Bhagat	Assistant Professor	M.A., M.Phil
90	P.S. Dhokane	Assistant Professor	M.Sc.
91	Rutika Raut	Assistant Professor	M.Sc.
92	A.S. Tale	Assistant Professor	M.Sc.
93	Dr.M.S. Pande	Assistant Professor	M.Sc., Ph.D.
94	G.L. Bayaskar	PED	M.A., M.P.Ed.
95	R.V. Pahurkar	APED	M.A., M.P.Ed.
96	D.P. Tarale	Assistant Professor	M.C.A.
97	S.D. Phuse	Assistant Professor	M.C.A.
Department of M.B.A.			
98	Dr. H.M. Jha "Bidyarthi"	Professor	MBA, Ph.D.
99	Dr. L.B. Deshmukh	Associate Professor	MBA, Ph.D.
100	Dr. P.M. Kuchar	Assistant Professor	M.B.A., Ph.D.
101	Dr. M.A. Dande	Assistant Professor	M.B.A., Ph.D.
102	Dr. S.M. Mishra	Assistant Professor	M.B.A., Ph.D.
103	W.Z. Suliya	Assistant Professor	M.B.A.
104	V.V. Patil	Assistant Professor	M.B.A.
105	B.T. Hussain	Assistant Professor	M.B.A.

- **Adjunct Facult**

SN	Name of the Faculty	Designation	Qualification
01	Ketan Narendra Pachpande	Assistant Professor	M.Tech
02	Yogesh Prabhakar Muramkar	Assistant Professor	M.E.
03	Tushar Bhagwan Kute	Assistant Professor	M.E.
04	Dr. S.S. Khedkar	Assistant Professor	M.E., Ph.D.
05	S.S. Lokhande	Assistant Professor	M.E.
06	Maj.Gen. Niraj Bali	Assistant Professor	PG

- **Permanent Faculty : Student Ratio : UG   1:20   PG   1:15**

- **Number of Faculty employed and left during the laste three years**

Number of Faculty Employeed			Number of Faculty Left		
2018-19	**2019-20**	**2020-21**	**2018-19**	**2019-20**	**2020-21**
03	02	05	02	01	02

8. Profile of Vice Chancellor / Director / Principal/Faculty

1	Name	**Dr. Sunil Bhikamchand Somani**						
2	Date of Birth	8th July 1967						
3	Unique ID	1-426010041						
4	Education Qualifications	B.E., M.E., Ph.D (Engg.& Tech.), Diploma in Office Automation						
5	Work Experience	Teaching	32	Research	05	Industry	01	others
6	Area of Specialization	Advance water treatment, Advance waste water treatment, Solid waste management,						
7	Courses (Subjects) taught	Under Graduate	Engineering Mechanics, Mechanics of Material, Fluid Mechanics, Environment Studies					
		Post Graduate	Advance water treatment					
8	Research guidance (Number of Students)	No. of Papers Published in	National		International Journals		Conferences	
		Masters Degree	Completed		07	Ongoing		04
		Ph.D.	Completed		--	Ongoing		02
9	Projects Carried out	U.G. – 12	P.G. - 07					
10	Patents	Filled	--			Granted	---	
11	Technology Transfer	---						
12	Research Publications (No. of papers published in)	National Journal	02	International Journal	08	Conferences	15	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	---						

➢ Department of Electrical Engineering (Electronics and Power)

1	Name	**Dr. Sudhir Ramdas Paraskar**						
2	Date of Birth	02/06/1966						
3	Unique ID	1-422786205						
4	Education Qualifications	Ph.D						
5	Work Experience	Teaching	25 years	Research	--	Industry	--	others	--
6	Area of Specialization	Transformer Protection, Power Quality,						
7	Courses (Subjects) taught	Under Graduate	Basic electrical engineering, Energy resources and generation, Electrical Power II, Electric drives and Control, Electrical Energy Distribution and utilization, Electrical Machine I, Electrical Machine II					
		Post Graduate	Advanced power system protection, FACTS and Power Quality					
8	Research guidance (Number of Students)	No. of Papers Published in	National	00	International Journals	20	Conferences	13
		Masters Degree	Completed	25	Ongoing	01		
		Ph.D.	Completed	02	Ongoing	07		
9	Projects Carried out	Software and hardware projects based on Electrical engineering- U.G.-25-P.G.20						
10	Patents	Filled	01		Granted	---		
11	Technology Transfer	---						
12	Research Publications (No. of papers published in)	National	06	International Journal	20	Conferences	14	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	1. Published a book chapter "A Novel Islanding Detection Technique for Grid Connected Distributed Generation Using KNN and SVM" pp.819-831, Jan 2021 P.V., Tangellapalli S., Solanki C.S. (eds) Advances in Clean Energy Technologies. Springer Proceedings in Energy. Springer, Singapore. 2. Published a book chapter in Novel Perspectives of Engineering Research Vol. 7 "Assessment of Artificial Neural Network-based Induction Motor Fault Classifier Using Continuous Wavelet Transform" Print ISBN: 978-93-5547-513-8, eBook ISBN: 978-93-5547-514-5						

1	Name	**Dr. Ravindra Shankarrao Pote**	
2	Date of Birth	24/06/1964	
3	Unique ID	1-422783693	
4	Education Qualifications	M.E. (EPS), Ph.D.	

5	Work Experience	Teaching	31 Years	Research	6 Years out of teaching experience	Industry	Nil	Others	Nil

6	Area of Specialization	Electrical Power System, High Voltage Engineering

7	Courses (Subjects) taught	Under Graduate	Basic Electrical Engineering, High Voltage Engineering, Electrical Power – I, Electrical Power – II, Network Analysis, Power System Stability, Electrical Measurement & Instrumentation, Switchgear & Protection, Electrical Machine – I, Electrical Machines -II, Numerical Methods & Computation Programming.
		Post Graduate	Advance Power System Protection, HVDC, Power System Dynamics, Generation Planning & Load Dispatch, GPSP, HVT, Optimization Techniques.

8	Research guidance (Number of Students)	No. of Papers Published in	National	02	International Journals	15	Conferences	05
		Masters Degree	Completed	20		Ongoing	NIL	
		Ph.D.	Completed	NIL		Ongoing	NIL	

9	Projects Carried out	Guided 20 P.G. Dissertations &22 U.G. Projects		
10	Patents	Filled	NIL	Granted	NIL
11	Technology Transfer	NIL			

12	Research Publications (No. of papers published in)	National	NIL	International Journal	10	Conferences	03

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	NIL

1	Name	**Uday Ananad Jawadekar**							
2	Date of Birth	27/06/1967							
3	Unique ID	1-422783697							
4	Education Qualifications	M.E. Electrical							
5	Work Experience	Teaching	28 years	Research	--	Industry	--	others	--
6	Area of Specialization	Electrical Power system engineering							
7	Courses (Subjects) taught	Under Graduate	Basic electrical engineering, Electrical measurements and instrumentation, Energy resources and generation.						
		Post Graduate	High voltage transmission, Generation planning and load dispatch.						
8	Research guidance (Number of Students)	No. of Papers Published in	National	01	International Journals	04	Conferences	09	
		Masters Degree	Completed	20		Ongoing	02		
		Ph.D.	Completed	---		Ongoing	---		
9	Projects Carried out	Software and hardware projects based on Electrical engineering- U.G.-25-P.G.20							
10	Patents	Filled	---		Granted	---			
11	Technology Transfer	---							
12	Research Publications (No. of papers published in)	National	01	International Journal	04	Conferences	09		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	---							

1	Name	**Dr. Anjali .U. Jawadekar**							
2	Date of Birth	22-02-1972							
3	Unique ID	1-422786209							
4	Education Qualifications	PhD							
5	Work Experience	Teaching	22	Research	15	Industry	-	others	-
6	Area of Specialization	Signal Processing							

7	Courses (Subjects) taught	Under Graduate	Signals& systems, control systems, Electromagnetic field theory , Power Electronics
		Post Graduate	

8	Research guidance (Number of Students)	No. of Papers Published in	National		International Journals	30	Conferences	15
		Masters Degree	Completed	25		Ongoing	02	
		Ph.D.	Completed	01		Ongoing	04	

9	Projects Carried out	20			
10	Patents	Filled		Granted	
11	Technology Transfer				

12	Research Publications (No. of papers published in)	National		International Journal	30	Conferences	15

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	1. Published a book chapter in Novel Perspectives of Engineering Research Vol. 7 "Assessment of Artificial Neural Network-based Induction Motor Fault Classifier Using Continuous Wavelet Transform" Print ISBN: 978-93-5547-513-8, eBook ISBN: 978-93-5547-514-5

1	Name	**Ravindra Zamsingh Fulare**	
2	Date of Birth	24.03.1968	
3	Unique ID	1-422786201	
4	Education Qualifications	ME (Power Electronics)	

5	Work Experience	Teaching	15	Research	--	Industry	5	others	

6	Area of Specialization	Power Electronics

7	Courses (Subjects) taught	Under Graduate	Basic Electrical Engineering,EE-III,Network analysis,Numerical methods and computer programming,Control System,Power Electronics
		Post Graduate	Electrical Machines Analysis and Control

8	Research guidance (Number of Students)	No. of Papers Published in	National		International Journals		Conferences	
		Masters Degree	Completed	8		Ongoing	0	
		Ph.D.	Completed	--		Ongoing		

9	Projects Carried out	14 projects guided for UG students 8 students guided for PG sa

10	Patents	Filled	--	Granted	--

11	Technology Transfer	--

12	Research Publications (No. of papers published in)	National		International Journal	03	Conferences	01

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	

1	Name	**Purushottam Ramesh Bharambe**						
2	Date of Birth	29 August 1974						
3	Unique ID	1-424113003						
4	Education Qualifications	ME (EPS)						
5	Work Experience	Teaching	12 Years	Research	-	Industry	-	others
6	Area of Specialization	Power System						
7	Courses (Subjects) taught	Under Graduate	Basic Electrical Engineering, Electrical Machines, Electrical Drives, Electrical Measurement & Instrumentation, Electrical Machine Design, Switchgear & Protection, Power Supply System.					
		Post Graduate	Digital Protection of Power System					

8	Research guidance (Number of Students)	No. of Papers Published in	National		International Journals		Conferences	
		Masters Degree	Completed	06		Ongoing	-	
		Ph.D.	Completed	-		Ongoing	-	

9	Projects Carried out				
10	Patents	Filled	-	Granted	-
11	Technology Transfer	-			

12	Research Publications (No. of papers published in)	National	-	International Journal	2	Conferences	2

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-

1	Name	**Ravishankar Shaligram Kankale**						
2	Date of Birth	8th March 1987						
3	Unique ID	1-426009813						
4	Education Qualifications	M.E. (EPS), Ph.D. (Regd.)						
5	Work Experience	Teaching	11 Years 8 Months	Research	2 years out of teaching experience	Industry	Nil	Others	Nil
6	Area of Specialization	Electrical Power System, Power Quality						
7	Courses (Subjects) taught	Under Graduate	Basic Electrical Engineering, Power System Operation & Control, High Voltage Engineering, Numerical Methods & Optimization Techniques					
		Post Graduate	High Voltage Transmission, HVDC Transmission, Power System Modeling & Control					
8	Research guidance (Number of Students)	No. of Papers Published in	National	01	International Journals	05	Conferences	06
		Masters Degree	Completed	04		Ongoing	Nil	
		Ph.D.	Completed	Nil		Ongoing	Nil	
9	Projects Carried out	Guided 04 P.G. Dissertations & 12 U.G. Projects						
10	Patents	Filled	Nil		Granted	Nil		
11	Technology Transfer	NIL						
12	Research Publications (No. of papers published in)	National	Nil	International Journal	03	Conferences	03	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Published a book chapter "A Novel Islanding Detection Technique for Grid Connected Distributed Generation Using KNN and SVM" pp.819-831, Jan 2021 P.V., Tangellapalli S., Solanki C.S. (eds) Advances in Clean Energy Technologies. Springer Proceedings in Energy. Springer, Singapore.						

1	Name	**Dr Saurabh Sureshrao Jadhao**							
2	Date of Birth	14th July 1983							
3	Unique ID	1-698260791							
4	Education Qualifications	PhD Electrical Engineering							
5	Work Experience	Teaching	11	Research	5	Industry	Nil	others	NA
6	Area of Specialization	Electrical Power System							

7	Courses (Subjects) taught	Under Graduate	1. Microprocessors and Microcontroller 2. Electrical Measurement and Instrumentation 3. Analog and Digital Circuits 4. Energy Audit and Management 5. Power Supply Systems 6. Artificial Intelligence 7. Power Quality
		Post Graduate	1. Advanced Power System Protection 2. Digital Protection of Power System 3. Power Quality Improvement Techniques

8	Research guidance (Number of Students)	No. of Papers Published in	National	01	International Journals	22	Conferences	28
		Masters Degree	Completed	11		Ongoing	Nil	
		Ph.D.	Completed	--		Ongoing	01	

9	Projects Carried out	Design and Development of Artificial Intelligence based Cotton Picking Machine sponsored by ICAR and in collaboration with Dr PDKV Akola			
10	Patents	Filled	08	Granted	Nil
11	Technology Transfer	01 Design and Development of Artificial Intelligence based Cotton Picking Machine			

12	Research Publications (No. of papers published in)	National	01	International Journal	22	Conferences	28

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication.)	1. Published a book chapter in Novel Perspectives of Engineering Research Vol. 7 "Assessment of Artificial Neural Network-based Induction Motor Fault Classifier Using Continuous Wavelet Transform" Print ISBN: 978-93-5547-513-8, eBook ISBN: 978-93-5547-514-5 2. Published a book chapter "Design and Control of Capacitor-Supported Dynamic Voltage Restorer for Mitigation of Power Quality Disturbances." Advances in Electrical and Computer Technologies. Lecture Notes in Electrical Engineering, vol 672. Springer, Singapore. https://doi.org/10.1007/978-981-15-5558-9_105(2020)

1	Name	**Mukesh Ravindra Chavan**						
2	Date of Birth	22/01/1990						
3	Unique ID	1-7419303613						
4	Education Qualifications	ME Electrical Power System						
5	Work Experience	Teaching	8	Research	-	Industry	-	others	-
6	Area of Specialization	Power System						
7	Courses (Subjects) taught	Under Graduate	Energy Audit & Management, Power Supply System, Electrical Machines, Numerical Methods, Electrical Power-I, Computer Methods in Power System Analysis					
		Post Graduate	Computer Methods in Power System Analysis					
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	-	Conferences	-
		Masters Degree	Completed	-		Ongoing	-	
		Ph.D.	Completed	-		Ongoing	-	
9	Projects Carried out	Social Distancing Device(2020-21), Energy Audit Case Study of Oil Mill (2018-19), Industrial Process Management using PLC, SCADA AND GSM(2017-18), Fault Detection in Transmission Line Based On Wavelet Transform(2015-16)						
10	Patents	Filled	NA		Granted	NA		
11	Technology Transfer	NA						
12	Research Publications (No. of papers published in)	National	NA	International Journal	2	Conferences	1	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	--						

1	Name	**Ravindra Kisanrao Mankar**						
2	Date of Birth	4th Dec 1979						
3	Unique ID	1-740787110						
4	Education Qualifications	M.E. (EPS), Ph.D. (Regd.)						
5	Work Experience	Teaching	15 Years & 5 Months	Research	Nil	Industry	Nil	ot
6	Area of Specialization	Fault Analysis in Electrical Power System						

7	Courses (Subjects) taught	Under Graduate	Electric Drives and Measurement, Electrical Energy Utilization, Energy Audit and Management, Power Supply System, Basic Electrical Drives and Control, Electric Drives and Control, Computer Methods in Power System Analysis
		Post Graduate	Power System Dynamics and Control, Computer Aided Power System Analysis, High Voltage Transmission

8	Research guidance (Number of Students)	No. of Papers Published in	National	01	International Journals	02	Conferences	03
		Masters Degree	Completed		02	Ongoing		Nil
		Ph.D.	Completed		Nil	Ongoing		Nil

9	Projects Carried out	Guided 02 P.G. Dissertations & 10 U.G. Projects				
10	Patents	Filled	Nil		Granted		Nil
11	Technology Transfer	Nil					
12	Research Publications (No. of papers published in)	National	Nil	International Journal	01	Conferences	01
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	Nil					

1	Name	**Dr. Ajay Kumar Damral**							
2	Date of Birth	02/11/1972							
3	Unique ID	1-2953080817							
4	Education Qualifications	PhD							
5	Work Experience	Teaching		Research	15	Industry		others	
6	Area of Specialization	Renewable Energy							
7	Courses (Subjects) taught	Under Graduate	Machine-2, Electrical Energy distribution and utilization						
		Post Graduate	-						
8	Research guidance (Number of Students)	No. of Papers Published in	National		International Journals		Conferences	02	
		Masters Degree	Completed			Ongoing			
		Ph.D.	Completed			Ongoing			
9	Projects Carried out	02 Grps							
10	Patents	Filled	(03) 1 .Hybrid Power Plant 2. A Solar Operable System for Cooking and Water Purification 3Hybrid Solar Energy Storage Device (HSESD).		Granted		**01** 1. An Improved Lead Acid Battery For Solar Power System		
11	Technology Transfer								
12	Research Publications (No. of papers published in)	National		International Journal		Conferences			
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	--							

1	Name	**Ganesh Narayan Bonde**							
2	Date of Birth	15/09/1988							
3	Unique ID	1-7393188291							
4	Education Qualifications	ME (Electrical Power System)							
5	Work Experience	Teaching	09	Research	02	Industry	Nil	others	Nil
6	Area of Specialization	Power Quality, Transformer Protection							

7	Courses (Subjects) taught	Under Graduate	Basic Electrical Engineering, Control System, Power System Stability, Power Supply System		
		Post Graduate	Advanced Control System		

8	Research guidance (Number of Students)	No. of Papers Published in	National	Nil	International Journals	Nil	Conferences	Nil
		Masters Degree	Completed	Nil		Ongoing	Nil	
		Ph.D.	Completed	Nil		Ongoing	Nil	

9	Projects Carried out	U.G Project Completed 06			
10	Patents	Filled	Nil	Granted	Nil
11	Technology Transfer	Nil			

12	Research Publications (No. of papers published in)	National	01	International Journal	02	Conferences	02
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil					

1	Name	**Bhushan Subhash Rakhonde**								
2	Date of Birth	22/04/1989								
3	Unique ID	1-7427831525								
4	Education Qualifications	B.E. , M. E. (EPS)								
5	Work Experience	Teaching	9	Research			Industry		others	
6	Area of Specialization	Electrical Power System								
7	Courses (Subjects) taught	Under Graduate	Basic Electrical Engineering, Electrical Machine-I, Basic Electrical Drives & Control, Numerical Method and Optimization Techniques, power System Operation & control, Computer Aided Machine Design.							
		Post Graduate	DSPA							
8	Research guidance (Number of Students)	No. of Papers Published in	National		International Journals			Conferences		
		Masters Degree	Completed	Nil			Ongoing	Nil		
		Ph.D.	Completed	Nil			Ongoing	Nil		
9	Projects Carried out	08 U.G. Project								
10	Patents	Filled	Nil			Granted		Nil		
11	Technology Transfer	Nil								
12	Research Publications (No. of papers published in)	National	Nil	International Journal	04		Conferences	02		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil								

1	Name	**PRATIK RAVI DHABE**							
2	Date of Birth	3rd October 1992							
3	Unique ID	1-7398363338							
4	Education Qualifications	M.Tech.(IPS), Ph.D. (Regd.)							
5	Work Experience	Teaching	4 Years 8 Months	Research	1 year out of Teaching Experience	Industry	Nil	others	Nil
6	Area of Specialization	Integrated Power System, Battery Energy Storage							
7	Courses (Subjects) taught	Under Graduate	High Voltage Engineering, Computer Applications in Power System, Basic Electrical Engineering, Digital Signal Processing, , Electrical Measurements and Instruments, Energy Resources and Generation						
		Post Graduate	Advance Electrical Drives						

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	01
		Masters Degree	Completed	Nil		Ongoing	Nil	
		Ph.D.	Completed	Nil		Ongoing	Nil	

9	Projects Carried out	Guided 4 UG Projects				
10	Patents	Filled	Nil	Granted	Nil	
11	Technology Transfer	Nil				
12	Research Publications (No. of papers published in)	National	Nil	International Journal	01	Conferences	04
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil				

1	Name	**VIJAY SHIVAJI KARALE**							
2	Date of Birth	4th July 1990							
3	Unique ID	1-7393383920							
4	Education Qualifications	M. E. (Electrical Power System)							
5	Work Experience	Teaching	6 Years 8 Months	Research	Nil	Industry	Nil	others	Nil
6	Area of Specialization	Electrical Power System , Power Quality							

7	Courses (Subjects) taught	Under Graduate	Power Electronics ,Energy Audit and Management , Power Supply System, Network analysis, Electrical Circuit Analysis, Numerical methods and Computer Programming, Energy Recourses and Generation.
		Post Graduate	Application of Power Electronics to Power System, Power Quality Improvement Technique

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	03
		Masters Degree	Completed	Nil		Ongoing	Nil	
		Ph.D.	Completed	Nil		Ongoing	Nil	

9	Projects Carried out	Guided 5 UG Projects			
10	Patents	Filled	Nil	Granted	Nil
11	Technology Transfer	Nil			
12	Research Publications (No. of papers published in)	National	Nil	International Journal	02	Conferences	02
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil			

1	Name	**Dr. Manish Narayandas Tibdewal**						
2	Date of Birth	21.05.1968						
3	Unique ID	1-424113007						
4	Education Qualifications	B.E., M.E., Ph.D. (I.I.T.,Kharagpur-WB)						
5	Work Experience- Year	Teaching	30	Research	12	Industry	01	others	--
6	Area of Specialization	Signal Processing, Biomedical Signal/Image Processing and Biomedical Instrumentation and Wearable Devices						

7	Courses (Subjects) taught	Under Graduate	PE, AEDC, EDC I & II, DICs, ADIC, ADC, CSE, DIP, MPMC, DSP, LIC, SAS, LIC, MATLAB Programming, etc. Total @ 15 Subjects taught
		Post Graduate	DIP, ADSP, ESD – 03 Subjects

8	Research guidance (Number of Students)	No. of Papers Published in	National	01	International Journals	10	Conferences	29
		Masters Degree	Completed	21		Ongoing	01	
		Ph.D.	Completed	--		Ongoing	02	

9	Projects Carried out	Total (UG+PG) = (51+21) = 72 Projects guided			
10	Patents	Filled	--Nil--	Granted	--Nil--
11	Technology Transfer	-Nil-			

12	Research Publications (No. of papers published in)	National Journal	01	International Journal	10	Conferences	29
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Reviewer of Book on C-Puzzle (Pearson Education, India)					

1	Name	**Dr.Kamlesh B. Khanchandani**						
2	Date of Birth	07/04/1967						
3	Unique ID	1-424083581						
4	Education Qualifications	Ph.D (Electronics Engg), M.E (Electronics Engg), B.E(Electronics Engg)						
5	Work Experience (Years)	Teaching	30	Research	18	Industry	-	others	-
6	Area of Specialization	Signal Processing, VLSI-Embedded System Design						

7	Courses (Subjects) taught	Under Graduate	Digital Signal Processing, Applied Electronics, Electronic Circuit Design
		Post Graduate	CMOS VLSI Design, Advanced Digital Signal Processing

8	Research guidance (Number of Students)	No. of Papers Published in	National	20	International Journals	50	Conferences	30
		Masters Degree	Completed		32	Ongoing		--
		Ph.D.	Completed		07	Ongoing		02

9	Projects Carried out	Design and Implementation 0f FPGA Based Controller for PWM Inverter for AC Drives, Design and Development of Low Noise Amplifier For RF Front End Of GPS Receiver, DSP-FPGA based Real Time Power Quality Disturbances Classifier, Reconstruction from Non-uniform Samples, Design and Implementation of Automotive Security System using ARM Processor, Design and Implementation of Smart-Wheelchair for Patients, Wireless Ambulatory Blood Pressure Monitoring System, Design & Development of Pipelined ADC, Design and Implementation of Diagnostic and Patient Monitoring System, Design and Implementation of BABY Monitoring unit using DSP Processor and FPGA(60+).

10	Patents	Filled	01		Granted	--Nil--

11	Technology Transfer	--Nil--				

12	Research Publications (No. of papers published in)	National	20	International Journal	50	Conferences	30

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	01---Text book on "Power Electronics Published by McGraw Hill Education (India) Private Limited, New Delhi-1998. ISBN—978-0-07-058389-4 ISBN _ 0-07-058389-7

1	Name	**Dr. R. S. Dkekekar**								
2	Date of Birth	02 June 1967								
3	Unique ID	1-424113133								
4	Education Qualifications	Ph.D. 2014 M.E. 1998 B.E. 1989								
5	Work Experience	Teaching	30	Research	03	Industry	*-Nil-*	others	*-Nil -*	
6	Area of Specialization	Power Electronics								
7	Courses (Subjects) taught	Under Graduate	Control System, Microprocessors, Biomedical Engineering, Instrumentation, Power Electronics, Values & Ethics, EDC Electronics Circuit Design							
		Post Graduate	Modern Electronics Design Technology (MEDT)							
8	Research guidance (Number of Students)	No. of Papers Published in	National	02	International Journals	*12*	Conferences	*05*		
		Masters Degree	Completed		24		Ongoing		01	
		Ph.D.	Completed		Nil		Ongoing		02	
9	Projects Carried out	Projects based on different digital controllers , project based of Power electronics , project based on embedded systems and Solar Applications								
10	Patents	Filled		Nil		Granted		Nil		
11	Technology Transfer	Nil								
12	Research Publications (No. of papers published in)	National		02	International Journal	12	Conferences		05	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--								

1	Name	**Dr. Santosh Balkrishna Patil**							
2	Date of Birth	26-04-1974							
3	Unique ID	1-424385441							
4	Education Qualifications	Ph.D. (VLSI- Electronics Engineering Master of Engineering (Digital Electronics) Master of Business Administration (Marketing Management) Bachelor of Engineering (Electronics & Telecomm. Engg.) ADCSSAA- PG Computer Diploma.							
5	Work Experience	Teaching	22	Research	12	Industry	2	others	0
6	Area of Specialization	VLSI-Analog/RF/Mixed Signal Internet of Things (IoT) Embedded System Design							

7	Courses (Subjects) taught	Under Graduate	Object Oriented Programming (Java, C++), VLSI ,Digital system Design, Electronics Devices and Circuits,Analog & Digital Integrated Circuits, Microcontroller Applications,Digital Signal Processing
		Post Graduate	• VLSI • Micro process and Microcontrollers

8	Research guidance (Number of Students)	No. of Papers Published in	National	03	International Journals	13	Conferences	11
		Masters Degree	Completed		17	Ongoing		02
		Ph.D.	Completed		-Nil-	Ongoing		01

9	Projects Carried out	35					
10	Patents	Filled	02		Granted	-Nil-	
11	Technology Transfer	-					
12	Research Publications (No. of papers published in)	National	03	International Journal	13	Conferences	11
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	-Nil-					

1	Name	**Mr. Vinayak M. Umale**								
2	Date of Birth	17.5.1966								
3	Unique ID	1-424083647								
4	Education Qualifications	DEE, BE (Industrial Electronics) M. Tech. (Instrumentation)								
5	Work Experience	Teaching	33	Research	PG& UG Proj. Guidance (Since2001&1990)		Industry	Visit to Inductry (Since2000)	others	Various Admi. work
6	Area of Specialization	Analog and Digital Systems, Biomedical Based Instrumentation, Computer and Communication Networking								

7	Courses (Subjects) taught	Under Graduate	EDC, NA, ADC, ADIC,EDC-II, AEDC, LIC, DIC, PCI, BME, CN, DCN
		Post Graduate	Digital Instrumentation and Control, Digital Instrumentation

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	30	Conferances	24
		Masters Degree	Completed	27	Ongoing	02		
		Ph.D.	Completed	--	Ongoing	02		

9	Projects Carried out	1. "Teleconference facility", sponsored by Videsh Sanchar Nigam Ltd. Training & Telecom Development Centre, Dighi, Pune, (Projectee: Abhishek A. Pandharipande and Group-2001-02) 2. " Complete Automation of wire Drawing Machine using Siemens make Programmable Controller", sponsored by Tata SSL Limited Tarapur wire plant, Thane(PG student-Mr. Manoj Sankhe, 2003-04) 3. " SCADA-Supervisory Control And Data Acquisition system for sugar industries using microcontroller", sponsored by Sharangdhar sugar Mills Limited, Mehkar, Dist Buldhana(MS). (PG student-Miss Swati S. Jayade, 2009-10) 4. " PLC Based raatio Controller and Material Distribution", sponsored by reliance Industries Limited, Nagpur Manufacturing Division, Mohada, Dist-Nagpur(MS). (PG stud.-Miss V. M. Badwaik, 2011-12) 5. " Intelligent Maximum Power Point Tracking" sponsored by SAMVED Energy Systems Pvt. Limited, Pune(PG student-Mr. Swapnil Wadodkar, 2014-15)				

10	Patents	Filled	-Nil-		Granted	-Nil-	
11	Technology Transfer	--					
12	Research Publications (No.of papers published in)	National	Nil	International Journal	30	Conferances	27

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Monograms of: • Volume-I (Electronics Devices and Circuits) • Volume-IV (Analog & Digital Circuits) • Volume-V (Linear Integrated circuits)

1	Name	**Mr. Vasant Ninaji Bhonge**							
2	Date of Birth	06/5/1964							
3	Unique ID	1-424113075							
4	Education Qualifications	ME (Electronics), Ph. D. (Pursuing)							
5	Work Experience	Teaching	32	Research	--	Industry	01	others	--
6	Area of Specialization	Digital Communication							

7	Courses (Subjects) taught	Under Graduate	Digital System Design, Analog and Digital Communication, Digital Communication, Linear Integrated Circuits, Wireless Communication, Fiber Optics
		Post Graduate	High Sped Digital System Design

8	Research guidance (Number of Students)	No. of Papers Published in	National	09	International Journals	18	Conferences	06
		Masters Degree	Completed	14	Ongoing	04		
		Ph.D.	Completed	---	Ongoing	---		

9	Projects Carried out	45 UG +18 PG			
10	Patents	Filled	-Nil-	Granted	-Nil-
11	Technology Transfer	--Nil--			

12	Research Publications (No. of papers published in)	National	09	International Journal	18	Conferences	06
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--					

1	Name	**Mr. Dinkar Laxman Bhombe**							
2	Date of Birth	15 April 1966							
3	Unique ID	1-424113261							
4	Education Qualifications	BE (Industrial Electronics) MS (Electronics & Control Engg.)							
5	Work Experience	Teaching	33	Research	00	Industry	00	others	00
6	Area of Specialization	Electronics & Control Engineering Communication Engineering Artificial Intelligent System							

7	Courses (Subjects) taught	Under Graduate	Communication Engineering, Digital Communication, Fuzzy Logic & Neural Network, Data Communication Network, Biomedical Engineering, Industrial Electronics
		Post Graduate	Digital Communication, Artificial Intelligence System

8	Research guidance (Number of Students)	No. of Papers Published in	National	02	International Journals	20	Conferences	09
		Masters Degree	Completed	18	Ongoing	01		
		Ph.D.	Completed	00	Ongoing	00		

9	Projects Carried out	00			
10	Patents	Filled	00	Granted	00
11	Technology Transfer	--Nil--			

12	Research Publications (No. of papers published in)	National	02	International Journal	20	Conferences	09

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--

1	Name	**Dr. Devesh D Nawgaje**							
2	Date of Birth	01/04/1972							
3	Unique ID	1-424113367							
4	Education Qualifications	B.E., M.E., PhD							
5	Work Experience	Teaching	23	Research	--Nil--	Industry	4	others	
6	Area of Specialization	Digital Electronics, Embedded System, Evolutionary Computing Techniques							
7	Courses (Subjects) taught	Under Graduate	Digital Electronics, Microprocessor, Microcontroller, Computer Organization, Computer Network						
		Post Graduate	Artificial Intelligent System, Computer Network						
8	Research guidance (Number of Students)	No. of Papers Published in	National	3	International Journals	29	Conferences	6	
		Masters Degree	Completed	5	Ongoing	1			
		Ph.D.	Completed	0	Ongoing	1			
9	Projects Carried out	Implementation of Evolutionary Computing Techniques For Cancer Diagnosis							
10	Patents	Filled	--Nil--	Granted	--Nil--				
11	Technology Transfer	-Nil-							
12	Research Publications (No. of papers published in)	National	3	International Journal	29	Conferences	6		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-Nil-							

1	Name	**Dr. Bhavna Pandurand Harne**						
2	Date of Birth	31/08/1971						
3	Unique ID	1-424385511						
4	Education Qualifications	Ph.D.						
5	Work Experience	Teaching	17	Research	-	Industry	-	others	-
6	Area of Specialization	EEG signal processing						

7	Courses (Subjects) taught	Under Graduate	DID, EDC, NA, EMF, CSE, OOP, STLD, Microprocessor 8086
		Post Graduate	Parallel computing

8	Research guidance (Number of Students)	No. of Papers Published in	National	--Nil--	International Journals	01	Conferences	01
		Masters Degree	Completed	--	Ongoing	--Nil--		
		Ph.D.	Completed	--	Ongoing	--Nil--		

9	Projects Carried out	14			
10	Patents	Filled	--Nil--	Granted	--Nil--
11	Technology Transfer	--Nil--			

12	Research Publications (No. of papers published in)	National	--Nil--	International Journal	05	Conferences	02

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--

1	Name	**Dr. Dhiraj Pandharinath Tulaskar**						
2	Date of Birth	26th November 1983						
3	Unique ID	1-424113265						
4	Education Qualifications	Ph.D. (Electronics and Telecommunication Engineering) M. E (Digital Electronics) B.E. (Electronics & Telecommunication)						
5	Work Experience	Teaching	12	Research	2	Industry	-	others	-
6	Area of Specialization	• VLSI Communication & DSP • RF/Microwave Circuit Design • Analog and Digital Communication						

7	Courses (Subjects) taught	Under Graduate	Satellite Communication,Communication Engineering-I, Communication Engineering-II, Wireless Communication,Digital Signal Processing, Fiber Optic Communication
		Post Graduate	Digital Communication Techniques

8	Research guidance (Number of Students)	No. of Papers Published in	National	6	International Journals	9	Conferences	3
		Masters Degree	Completed	1	Ongoing	0		
		Ph.D.	Completed	0	Ongoing	0		

9	Projects Carried out	14			
10	Patents	Filled	--Nil--	Granted	--Nil--
11	Technology Transfer	1			

12	Research Publications (No. of papers published in)	National	6	International Journal	9	Conferences	3
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--					

1	Name	**Dr. Pravin Rohidas Wankhede**							
2	Date of Birth	27/11/1985							
3	Unique ID	1-426009909							
4	Education Qualifications	Ph.D. (Electronics and Telecommunication Engg.) M.E. (Digital Electronics), B.E. (Electronics and Telecommunication Engineering)							
5	Work Experience	Teaching	13	Research	6	Industry	-	others	-
6	Area of Specialization	Internet of Things, Embedded Systems, Retinal Image Processing							
7	Courses (Subjects) taught	Under Graduate	Analog Circuits, PLC and Automation,Skill Development Lab (Hardware - AVR),Analog Electronics – I,Analog Electronics – II, Electronic Devices and Circuits, Network Analysis,Smart Sensors,Electronic Devices and Circuits – I Electronics Devices and Circuits – II,Component and Device Technology						
		Post Graduate	Microprocessor and Microcontroller,High Speed Digital System Design, Embedded System Design						
8	Research guidance (Number of Students)	No. of Papers Published in	National Journals	-	International Journals	2	Conferences	1	
		Master's Degree	Completed	3 (Co-guide)		Ongoing		--Nil--	
		Ph.D.	Completed	--Nil--		Ongoing		--Nil--	
9	Projects Carried out	13 UG +03 PG							
10	Patents	Filled	--Nil--		Granted	--Nil--			
11	Technology Transfer	-							
12	Research Publications (No. of papers published in)	National Journals	-	International Journal	8	Conferences	6		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--							

1	Name	**Mr. Amit N Dolas**							
2	Date of Birth	17 July 1983							
3	Unique ID	1-426009973							
4	Education Qualifications	ME (Digital Electronics)							
5	Work Experience	Teaching	12.5 Yrs.	Research	--	Industry	02	others	--
6	Area of Specialization	Robotics & Automation, Image Processing							
7	Courses (Subjects) taught	Under Graduate	Electronics Devices & Circuits, Analog & Digital Circuits, Linear Integrated Circuits, Analog Electronics-I, Analog Electronics-II, Control System Engineering, Computer Networking						
		Post Graduate	--Nil--						
8	Research guidance (Number of Students)	No. of Papers Published in	National	Nil	International Journals	-Nil-	Conferences	-Nil-	
		Masters Degree	Completed	--Nil--	Ongoing	--Nil--			
		Ph.D.	Completed	--Nil--	Ongoing	--Nil--			
9	Projects Carried out	21 UG Projects							
10	Patents	Filled	--Nil--			Granted	--Nil--		
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	--Nil--		International Journal	01	Conferences	02	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--							

	Name	Dr. Vivek Vinayakrao Ratnaparkhi						
2	Date of Birth	10/02/1983						
3	Unique ID	1-424113269						
4	Education Qualifications	Ph.D. (Electronics and Telecommunication Engineering)						
5	Work Experience	Teaching	13Yrs.	Research	01 Yr.	Industry	04 months	others	Nil
6	Area of Specialization	Microwave Communication						
7	Courses (Subjects) taught	Under Graduate	Electronic Devices and Circuits, Electromagnetic Fields, Communication Engineering-I, Principles of Communication, Satellite Communication, Optical Fiber Communication, Satellite and Optical Fiber Communication, UHF and Microwaves					
		Post Graduate	Nil					
8	Research guidance (Number of Students)	No. of Papers Published in	National	Nil	International Journals	Nil	Conferences	01
		Masters Degree	Completed	Nil	Ongoing	Nil		
		Ph.D.	Completed	Nil	Ongoing	Nil		
9	Projects Carried out	UG Students projects guided No. 24						
10	Patents	Filled	Nil	Granted	Nil			
11	Technology Transfer	Nil						
12	Research Publications (No. of papers published in)	National	01	International Journal	03	Conferences	06	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--						

1	Name	**Mr. Vikas Kamalkishor Bhangdiya**							
2	Date of Birth	20-July-1982							
3	Unique ID	1-426010459							
4	Education Qualifications	M.Tech (Electronics), Ph.D. (Pursuing)							
5	Work Experience	Teaching	12 years	Research		Industry	1.5 years	others	
6	Area of Specialization	Image Processing, Embedded System, Machine Learning							
7	Courses (Subjects) taught	Under Graduate	Digital System Design, Signals and Systems, Communication Engineering, Microcontroller and Application, Communication Theory, Object-Oriented Programming, Robotics and Application						
		Post Graduate	Embedded System Design, CMOS VLSI Design						
8	Research guidance (Number of Students)	No. of Papers Published in	National	--Nil--	International Journals	--Nil--	Conferences	-Nil-	
		Masters Degree	Completed	--Nil--	Ongoing	--Nil--			
		Ph.D.	Completed	NA	Ongoing	NA			
9	Projects Carried out	12 UG							
10	Patents	Filled	--Nil--	Granted	--Nil--				
11	Technology Transfer	--Nil--							
12	Research Publications (No. of papers published in)	National	--Nil--	International Journal	01	Conferences	01		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--							

1	Name	**Mr. Kamlesh Tulshiram Kahar**						
2	Date of Birth	23/10/1986						
3	Unique ID	1-699072381						
4	Education Qualifications	M.Tech, PhD Pursuing						
5	Work Experience	Teaching	12	Research	02	Industry		others	
6	Area of Specialization	MEMS, Power Electronics, Digital Communication						
7	Courses (Subjects) taught	Under Graduate	Power Electronics, Instrumentation & Sensors , Communication Engineering I & II, Linear Electronic Devices, Analog & Digital Communication, Electronic Devices & Circuits					
		Post Graduate	Digital Instrumentation					
8	Research guidance (Number of Students)	No. of Papers Published in	National	--Nil-	International Journal	Nil	Conferences	-Nil-
		Masters Degree	Completed	--Nil-	Ongoing	--Nil--		
		Ph.D.	Completed	--Nil-	Ongoing	--Nil--		
9	Projects Carried out							
10	Patents	Filled	--Nil--		Granted	--Nil--		
11	Technology Transfer							
12	Research Publications (No. of papers published in)	National	--Nil--	International Journal	01	Conferences	02	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil --						

1	Name	**Mr. Pawan D. Kale**						
2	Date of Birth	21/01/1989						
3	Unique ID	1-7392848695						
4	Education Qualifications	M.Tech, Ph.D (Pursuing)						
5	Work Experience	Teaching	10 years	Research		Industry		others	
6	Area of Specialization	Electromagnetic, Antenna Design						
7	Courses (Subjects) taught	Under Graduate	EMF,DC, DSP, CE, FO, IWT, Sat.Com					
		Post Graduate	ADSP					
8	Research guidance (Number of Students)	No. of Papers Published in	National		International Journals		Conferences	
		Masters Degree	Completed	--Nil--		Ongoing	--Nil--	
		Ph.D.	Completed	--Nil--		Ongoing	--Nil--	
9	Projects Carried out	12 UG						
10	Patents	Filled	--Nil--			Granted	--Nil--	
11	Technology Transfer	--Nil--						
12	Research Publications (No. of papers published in)	National	--Nil--		International Journal	03	Conferences	02
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--						

1	Name	**Mrs. K. S. Vyas**							
2	Date of Birth	19/04/91							
3	Unique ID	1-7393043452							
4	Education Qualifications	ME(Digital Electronics)							
5	Work Experience	Teaching	07	Research	-	Industry	-	others	-
6	Area of Specialization	Digital Image Processing Communication							

7	Courses (Subjects) taught	Under Graduate	FO,FOSC, IWT, SOFC,CE,CE-II(Old),CE-II(New),DCN,CN,DC
		Post Graduate	-

8	Research guidance (Number of Students)	No. of Papers Published in	National	2	International Journals	Nil	Conferences	-Nil-
		Masters Degree	Completed	2017	Ongoing		--Nil--	
		Ph.D.	Completed	--Nil--	Ongoing		--Nil--	

9	Projects Carried out	07		
10	Patents	Filled	--Nil--	Granted	--Nil--
11	Technology Transfer	--Nil--			

12	Research Publications (No. of papers published in)	National	--Nil--	International Journal	--Nil--	Conferences	--Nil--
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--					

1	Name	**Mr. Swapnil Panjabrao Badar**						
2	Date of Birth	04/12/1986						
3	Unique ID	1-11121397101						
4	Education Qualifications	M.Tech (Electronics), Ph.D (Pursuing)						
5	Work Experience	Teaching	12	Research	--	Industry	--	others	--
6	Area of Specialization	VLSI Design						
7	Courses (Subjects) taught	Under Graduate	VLSI Design, Network Analysis/Network Theory, Digital Electronics, Electronics Devices & Circuits, Electronics Devices & Components					
		Post Graduate	--					

8	Research guidance (Number of Students)	No. of Papers Published in	National	--Nil--	International Journals	Nil	Conferences	-Nil-
		Masters Degree	Completed	--Nil--		Ongoing	--Nil--	
		Ph.D.	Completed	--Nil--		Ongoing	--Nil--	

9	Projects Carried out					
10	Patents	Filled	--Nil--	Granted	--Nil--	
11	Technology Transfer					
12	Research Publications (No. of papers published in)	National	--Nil--	International Journal	--Nil--	Conferences	02
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	--Nil--				

1	Name	**Mr. TEJRAO PANJABRAO MARODE**							
2	Date of Birth	23/06/1983							
3	Unique ID	1-7392232118							
4	Education Qualifications	ME(DIGITAL ELECTRONICS)							
5	Work Experience	Teaching	5yrs	Research		Industry		others	14yrs
6	Area of Specialization	PROGRAMMING AND NETWORKING							
7	Courses (Subjects) taught	Under Graduate	Web Development/OOP/JAVA/Python						
		Post Graduate							
8	Research guidance (Number of Students)	No. of Papers Published in	National	--Nil--	International Journal	Nil-	Conferences	-Nil-	
		Masters Degree	Completed	--Nil--		Ongoing	--Nil--		
		Ph.D.	Completed	--Nil--		Ongoing	--Nil--		
9	Projects Carried out	Implementations (SAP-ERP)							
10	Patents	Filled	--Nil--		Granted	--Nil--			
11	Technology Transfer								
12	Research Publications (No. of papers published in)	National	1	International Journal	4	Conferences	--Nil--		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--							

1	Name	**Mr. Vikram Suresh Ingole**							
2	Date of Birth	17/06/1988							
3	Unique ID	1-4448215276							
4	Education Qualifications	PhD(Pursuing) M.E.,B.E.							
5	Work Experience	Teaching	9	Research	--	Industry	--	others	--
6	Area of Specialization								

7	Courses (Subjects) taught	Under Graduate	Control System, Microprocessor, Microcontroller, AVR Microcontroller
		Post Graduate	--Nil--

8	Research guidance (Number of Students)	No. of Papers Published in	National	--Nil--	International Journals		Conferences	
		Masters Degree	Completed	--Nil--		Ongoing		--Nil--
		Ph.D.	Completed	--Nil--		Ongoing		--Nil--

9	Projects Carried out	1.Implementation of cost effective smart Hydrophonic System Monitoring and controlling using IoT 2.Cattle health monitoring system

10	Patents	Filled	--Nil--	Granted	--Nil--

11	Technology Transfer	--Nil--

12	Research Publications (No. of papers published in)	National	--Nil--	International Journal	5	Conferences	1

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--

1	Name	**Mr. Shon Gajanan Nemane**						
2	Date of Birth	30/07/1988						
3	Unique ID	1-4448215358						
4	Education Qualifications	BE(EXTC),ME(Digital Electronics)						
5	Work Experience	Teaching	4Years	Research	--Nil--	Industry	--	others	--
6	Area of Specialization	Digital Electronics						

7	Courses (Subjects) taught	Under Graduate	EDC,ADE,DE,DSD,ADC			
		Post Graduate	--			

8	Research guidance (Number of Students)	No. of Papers Published in	National	--Nil--	International Journals	-Nil-	Conferences	--Nil--
		Masters Degree	Completed	2018		Ongoing	---	
		Ph.D.	Completed	---		Ongoing		

9	Projects Carried out	Automatic Smart Trolley Voice control home appliances using Rasberry-Pi

10	Patents	Filled	--Nil--	Granted	--Nil--

11	Technology Transfer	--Nil--

12	Research Publications (No. of papers published in)	Completed	2	International Journal	--Nil--	Conferences	--Nil--

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--

1	Name	**Ms. Ashwini Deshmukh**							
2	Date of Birth	23-10-91							
3	Unique ID	1-9312315828							
4	Education Qualifications	ME							
5	Work Experience	Teaching	4.5	Research		Industry		others	
6	Area of Specialization	Digital Electronics							
7	Courses (Subjects) taught	Under Graduate	EMF,BASIC ELECTRONICS,DIGITAL TECHNIQUES,IWT						
		Post Graduate							
8	Research guidance (Number of Students)	No. of Papers Published in	National	--Nil--	International Journals	--Nil--	Conferences	-Nil-	
		Masters Degree	Completed	--Nil--	Ongoing	--Nil--			
		Ph.D.	Completed	--Nil--	Ongoing	--Nil--			
9	Projects Carried out	--Nil--							
10	Patents	Filled	--Nil--		Granted	--Nil--			
11	Technology Transfer								
12	Research Publications (No. of papers published in)	National	--Nil--	International Journal	2	Conferences	--Nil--		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--Nil--							

1	Name	**Sanjaykumar Purushottam Satal**								
2	Date of Birth	11/11/1969								
3	Unique ID	1-10971449176								
4	Education Qualifications	M.E. (Digital Electronics)								
5	Work Experience	Teaching	1	Research	-	Industry	-	others		-
6	Area of Specialization	Power Electronics, Instrumentation								

7	Courses (Subjects) taught	Under Graduate	--
		Post Graduate	M.E.

8	Research guidance (Number of Students)	No. of Papers Published in	National	---	International Journals	---	Conferences	---
		Masters Degree	Completed	---	Ongoing	---		
		Ph.D.	Completed	---	Ongoing	---		

9	Projects Carried out	Software and hardware projects based on Electrical engineering- U.G.-25-P.G.20			
10	Patents	Filled	---	Granted	---
11	Technology Transfer	---			

12	Research Publications (No. of papers published in)	National	---	International Journal	---	Conferences	---
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	---					

1	Name	**Mahendra Bhaurao Dhamande**							
2	Date of Birth	17 September 1963							
3	Unique ID	1-10971449164							
4	Education Qualifications	ME (Digital Electronics)							
5	Work Experience	Teaching	1	Research	--	Industry	--	others	32
6	Area of Specialization	Analog & Digital Electronics							

7	Courses (Subjects) taught	Under Graduate	--				
		Post Graduate	M.E.				

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	Software and hardware projects based on Electrical engineering- U.G.-25-P.G.20			
10	Patents	Filled	--	Granted	---
11	Technology Transfer	---			

12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	--
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)						

1	Name	**Dr. Shivshankar P. Trikal**							
2	Date of Birth	19/12/1971							
3	Unique ID	1-424537075							
4	Education Qualifications	M.E, Ph.D.							
5	Work Experience	Teaching	26	Research	--	Industry	01	others	--
6	Area of Specialization	Manufacturing Engineering							
7	Courses (Subjects) taught	Under Graduate	1) MP-I, 2) MP-II, 3) TE, 4) MTD, 5) PPC						
		Post Graduate	1) AMP, 2) RPT						
8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--	
		Masters Degree	Completed	15	Ongoing	05			
		Ph.D.	Completed	--	Ongoing	03			
9	Projects Carried out	30							
10	Patents	Filled	01		Granted	--			
11	Technology Transfer	-							
12	Research Publications (No. of papers published in)	National	01	International Journal	20	Conferences	05		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

1	Name	Dr. Vinay K. Thute								
2	Date of Birth	15/04/1972								
3	Unique ID	1-424537079								
4	Education Qualifications	B.E.(Mechanical Engg.), M.Tech. (Mech. System Design), Ph.D. (Mechanical Engg.)								
5	Work Experience	Teaching	25	Research	--	Industry	01	others	--	
6	Area of Specialization	Mechatronics, Theory of Machines & Mechanisms, Machine Condition Monitoring								
7	Courses (Subjects) taught	Under Graduate	1) Theory of Machine, 2) Mechatronics, 3) Engg. Graphics							
		Post Graduate	1) Design of Material Handling equipments, 2) Mechatronics in System Design.							
8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--		
		Masters Degree	Completed	--	Ongoing	--				
		Ph.D.	Completed	--	Ongoing	--				
9	Projects Carried out	25								
10	Patents	Filled	--			Granted	--			
11	Technology Transfer	--								
12	Research Publications (No. of papers published in)	National	02	International Journal	--	Conferences	02			
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--								

1	Name	**Dr. Javen G. Khan**							
2	Date of Birth	06/11/1978							
3	Unique ID	1-7393732985							
4	Education Qualifications	Ph.D.							
5	Work Experience	Teaching	14	Research	05	Industry	03	others	--
6	Area of Specialization	Manufacturing Engineering							
7	Courses (Subjects) taught	Under Graduate	1) Automobile Engineering, 2) Automation Engineering, 3) Engineering Graphics						
		Post Graduate	1) Lean Manufacturing, 2) Rapid Prototyping						
8	Research guidance (Number of Students)	No. of Papers Published	National	03	International Journals	08	Conferences	04	
		Masters Degree	Completed	04	Ongoing	01			
		Ph.D.	Completed	--	Ongoing	--			
9	Projects Carried out	14							
10	Patents	Filled	--	Granted		--			
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	03	International Journal	08	Conferences	04		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

1	Name	**Mr. Madhao Baliram Bhambere**						
2	Date of Birth	15/10/1981						
3	Unique ID	1-425538641						
4	Education Qualifications	M-Tech. (R), Ph.D. (Appeared)						
5	Work Experience	Teaching	17	Research	--	Industry	--	others	--
6	Area of Specialization	Thermal Engineering						
7	Courses (Subjects) taught	Under Graduate	1) Heat Transfer, 2) Fluid Power-I, 3) Fluid Power-II, 4) EG, 5)CSE, 6) TOM-I, 7) RAC.					
		Post Graduate	--					
8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	06	Conferences	--
		Masters Degree	Completed	03	Ongoing		01	
		Ph.D.	Completed	--	Ongoing		--	
9	Projects Carried out	24						
10	Patents	Filled	18		Granted		03	
11	Technology Transfer							
12	Research Publications (No. of papers published in)	National	--	International Journal	08	Conferences	03	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--						

1	Name	**Mr. Chinmay Vasant Patil**						
2	Date of Birth	11/07/1978						
3	Unique ID	1-425538645						
4	Education Qualifications	M.E. (CAD/CAM)						
5	Work Experience	Teaching	17	Research	--	Industry	01	others	--
6	Area of Specialization	Computer Aided Design & Manufacturing						
7	Courses (Subjects) taught	Under Graduate	1) EM, 2) CADS					
		Post Graduate	1) CADE					
8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing		--	
		Ph.D.	Completed	--	Ongoing		--	
9	Projects Carried out	Smart stick for blind people.						
10	Patents	Filled	--		Granted		--	
11	Technology Transfer	--						
12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	--
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--						

1	Name	**Mr. Ajay Suresh Bharule**							
2	Date of Birth	11/08/1983							
3	Unique ID	1-425658591							
4	Education Qualifications	M-Tech.							
5	Work Experience	Teaching	12	Research	--	Industry	02	others	--
6	Area of Specialization	Machine Design & Analysis							
7	Courses (Subjects) taught	Under Graduate	1) EM, 2) MOM, 3) MD, 4) TOM, 5) ORT						
		Post Graduate	1) AMD, 2) ESA						
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	10	Conferences	--	
		Masters Degree	Completed	10	Ongoing	--			
		Ph.D.	Completed	--	Ongoing	-			
9	Projects Carried out	12							
10	Patents	Filled	--			Granted	--		
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	03	International Journal	--	Conferences	--		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

1	Name	**Mr. Nitin B. Borkar**							
2	Date of Birth	09/10/1984							
3	Unique ID	1-1478729608							
4	Education Qualifications								
5	Work Experience	Teaching	12	Research	--	Industry	--	others	--
6	Area of Specialization	Production Engineering							
7	Courses (Subjects) taught	Under Graduate	1) EG, 2) IMC, 3) MOM, 4) MDR, 5) PT, 6) E Met.						
		Post Graduate	1) CAPM						
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	04	Conferences	--	
		Masters Degree	Completed	05	Ongoing	--			
		Ph.D.	Completed	--	Ongoing	--			
9	Projects Carried out	15							
10	Patents	Filled	01		Granted	--			
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	--	International Journal	06	Conferences	02		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

1	Name	Dr. Nilesh Haribhau Khandare							
2	Date of Birth	14/08/1983							
3	Unique ID	1-1480531633							
4	Education Qualifications	M.E., Ph.D.							
5	Work Experience	Teaching	11	Research	02	Industry	05	others	--
6	Area of Specialization	Manufacturing Engineering, Production Technology, Industrial Engineering, Lean & Agile Manufacturing,							
7	Courses (Subjects) taught	Under Graduate	1) MQC, 2) MAT Sci., 3) MP-I, 4) MP-II, 5) MS, 6)AE, 7) NCES, 8) MD						
		Post Graduate	1) CAPM, 2) LM						
8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	02	Conferences	--	
		Masters Degree	Completed	03	Ongoing	01			
		Ph.D.	Completed	--	Ongoing	--			
9	Projects Carried out	13							
10	Patents	Filled	--	Granted	--				
11	Technology Transfer	Leakage Testing of Reverse Sleeve Yoke without water							
12	Research Publications (No. of papers published in)	National	02	International Journal	05	Conferences	02		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

1	Name	**Mr. Pradeep T. Patokar**							
2	Date of Birth	22/10/1986							
3	Unique ID	1-458662391							
4	Education Qualifications	ME(Manufacturing)							
5	Work Experience	Teaching	12	Research	--	Industry	--	others	--
6	Area of Specialization	Manufacturing							
7	Courses (Subjects) taught	Under Graduate	Workshop-I, Workshop-II						
		Post Graduate	--						
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals		Conferences		--
		Masters Degree	Completed	--	Ongoing		--		
		Ph.D.	Completed	--	Ongoing		--		
9	Projects Carried out	03							
10	Patents	Filled	--		Granted		--		
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	--	International Journal	06	Conferences	--		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

1	Name	Mr. S. Q. Syed							
2	Date of Birth	06/11/1984							
3	Unique ID	1-1435368613							
4	Education Qualifications	M-Tech.							
5	Work Experience	Teaching	10	Research	--	Industry	01	others	--
6	Area of Specialization	Thermal Engineering							
7	Courses (Subjects) taught	Under Graduate	1) EC-I, 2) EC-II, 3) ET, 4) MOM, 5) NCES, 6) HT						
		Post Graduate	--						
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	--	Conferences	--	
		Masters Degree	Completed	--	Ongoing	--			
		Ph.D.	Completed	--	Ongoing	-			
9	Projects Carried out	10							
10	Patents	Filled	--	Granted		--			
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	--		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

1	Name	**Prof. Krunal R. Gandhare**	
2	Date of Birth	25/08/1989	
3	Unique ID	1-7429183832	
4	Education Qualifications		

5	Work Experience	Teaching	07	Research	--	Industry	--	others	--

6	Area of Specialization	Advanced Manufacturing & Mechanical System Design

7	Courses (Subjects) taught	Under Graduate	1) CSE, 2) MS, 3) EM, 4) E-Mat,
		Post Graduate	1) Advanced Material Science, 2) Design for Material Handling Equipment

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing		--	
		Ph.D.	Completed	--	Ongoing		--	

9	Projects Carried out	--			

10	Patents	Filled	--	Granted	--

11	Technology Transfer	--				

12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	--

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--

1	Name	**Mr. R. V. Rajkolhe**							
2	Date of Birth	14/10/1988							
3	Unique ID	1-2188734214							
4	Education Qualifications	B.E., M.E.							
5	Work Experience	Teaching	07	Research	--	Industry	--	others	--
6	Area of Specialization	Machine Design							
7	Courses (Subjects) taught	Under Graduate	1) EG, 2) EM, 3) MOM, 4) MDD-I, 5) MD, 6) TOM-II						
		Post Graduate	1) AMP, 2) MSD.						
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	--	Conferences	--	
		Masters Degree	Completed	--	Ongoing	--			
		Ph.D.	Completed	--	Ongoing	--			
9	Projects Carried out	--							
10	Patents	Filled	--			Granted	--		
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	--		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

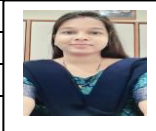| 1	Name	**Mr. Kunal D. Gadgil**						
2	Date of Birth	06/12/1987						
3	Unique ID	1-7397108400						
4	Education Qualifications	M-Tech. (R), Ph.D. (Perusing)						
5	Work Experience	Teaching	10	Research	--	Industry	02	others	--
6	Area of Specialization	Thermal Engineering						
7	Courses (Subjects) taught	Under Graduate	1) TOM-I, 2) RAC, 3) EC-II, 4) EAM, 5) HPS					
		Post Graduate	--					
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	--		
		Ph.D.	Completed	-	Ongoing	-		
9	Projects Carried out	Evaporative cooler using earthen tubes with passive cooling						
10	Patents	Filled	--		Granted	--		
11	Technology Transfer	--						
12	Research Publications (No. of papers published in)	National	03	International Journal	--	Conferences	--	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--						

1	Name	Prof. Kiran V. Chandan							
2	Date of Birth	01/07/1989							
3	Unique ID	1-7398363239							
4	Education Qualifications	M.Tech. Ph.D. (Pursuing)							
5	Work Experience	Teaching	06	Research	--	Industry	02	others	--
6	Area of Specialization	Mechanical Engineering Design							
7	Courses (Subjects) taught	Under Graduate	1) Fluid Mechanics, 2) IC Engines, 3) Thermodynamics						
		Post Graduate	--						
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	--	Conferences	--	
		Masters Degree	Completed	--		Ongoing	--		
		Ph.D.	Completed	--		Ongoing	--		
9	Projects Carried out	Productivity Enhancement of Crimping operation							
10	Patents	Filled	--			Granted	--		
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	--	International Journal	03	Conferences	01		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

1	Name	**Prof. Nikhil G. More**							
2	Date of Birth	14/02/1990							
3	Unique ID	1-2949443795							
4	Education Qualifications	B.E. (Mechanical) M.E. (Thermal)							
5	Work Experience	Teaching	07	Research	--	Industry	--	others	01
6	Area of Specialization	Solar Energy, Thermal Engineering, Digital Fabrication.							
7	Courses (Subjects) taught	Under Graduate	1) EM, 2) EC						
		Post Graduate	--						
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	07	Conferences		01
		Masters Degree	Completed	--	Ongoing			--	
		Ph.D.	Completed	--	Ongoing			--	
9	Projects Carried out	- 310 KW GCRT Solar Power Plant installed in SSGMCE, Shegaon - Development of FAB Lab.							
10	Patents	Filled		--		Granted		--	
11	Technology Transfer	Solar Energy Technology is used for installation of various solar power plant							
12	Research Publications (No. of papers published in)	National	--	International Journal	07	Conferences		01	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Published book on "Energy Conversion" (ISBN-978-93-81660-45-4, published by Das Gany Publication, Nagpur.							

1	Name	**Mr. Piyush Ashokrao Dalke**						
2	Date of Birth	07/02/1993						
3	Unique ID	1-10970730651						
4	Education Qualifications	B.E , M-Tech , Ph-D (Pursuing*) Mechanical Engineering						
5	Work Experience	Teaching	05	Research	--	Industry	--	others	--
6	Area of Specialization	Manufacturing Engineering						

7	Courses (Subjects) taught	Under Graduate	BME , MS , MP, IPR
		Post Graduate	--

8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	-	Conferences	-
		Masters Degree	Completed	-	Ongoing		-	
		Ph.D.	Completed	-	Ongoing		-	

9	Projects Carried out	Investigation of hybrid nano fluids characteristics drilling using MQL.			
10	Patents	Filled	18	Granted	03
11	Technology Transfer	--			
12	Research Publications (No. of papers published in)	National	03	International Journal	03	Conferences	05

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	➢ "Introduction to Mechanical Engineering" in LAMBERT International publication *ISBN No.978-613-9-97609-6 (Year 2018)* ➢ "Basic Mechanical Engg" in Gigatech Publishing House national publication under SPPU Pune syllabus for FE departmental. *ISBN No. 978-81-93505-78-6 (Year 2019)* ➢ "Engineering Graphics" in Nirali prakashan Publishing House national publication under SPPU Pune syllabus for FE departmental. *ISBN No. 978-93-89825-75-6 (Year 2020)* ➢ "Fluid Mechanics" in Aditya Publishing House national publication under SGBAU Amravati syllabus for SE departmental. ISBN No.978-81-949235-0-3 *(Year 2021)*

Department of Computer Science and Engineering

1	Name	**Dr. Narendra M. Kandoi**						
2	Date of Birth	27th November 1967						
3	Unique ID	1-426009707						
4	Education Qualifications	Ph. D. (Computer Science and Engg)						
5	Work Experience	Teaching	33 Years	Research	10 Years	Industry	---	others	----
6	Area of Specialization	Web Technology and Security						
7	Courses (Subjects) taught	Under Graduate	Programming Methodology, Operating System, Web Engineering ,Computing Resource Management ,File Structure and Data Processing ,Computer Organization, Theory of Computation, Introduction to Cyber Security, Design and analysis of Algorithm , 'C' programming					
		Post Graduate	Expert System Design ,Embedded System ,System Security ,Advanced Compilation Techniques					
8	Research guidance (Number of Students)	No. of Papers Published in	National	----	International Journals	04	Conferences	10
		Masters Degree	Completed	12	Ongoing	01		
		Ph.D.	Completed	---	Ongoing	---		
9	Projects Carried out							
10	Patents	Filled	----	Granted	------			
11	Technology Transfer							
12	Research Publications (No. of papers published in)	National	-------	International Journal	11	Conferences	------	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--------------------						

1	Name	**Dr.Dhanraj Ramdas Dhotre**						
2	Date of Birth	11 May 1981						
3	Unique ID	1-421855195						
4	Education Qualifications	BE(CSE),ME(CSE),PhD(CSE)						
5	Work Experience	Teaching	16	Research		Industry	1	others	

6	Area of Specialization	Machine Learning , Data Analytics ,Image Processing

7	Courses (Subjects) taught	Under Graduate	Artificial Intelligence, Design and Analysis of Algorithms, Operating system ,Theory of Computation ,Data Structures, Discrete structures,Object Oriented Programming Programming Methodology
		Post Graduate	1. Operating System Design (Linux Approach) 2. Network System and Design

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	12	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	04		

9	Projects Carried out	

10	Patents	Filled	01	Granted	--

11	Technology Transfer	

12	Research Publications (No. of papers published in)	National	--	International Journal	11	Conferences	10

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	

1	Name	**Chandrashekhar Marotrao Mankar**	
2	Date of Birth	30/10/1968	
3	Unique ID	1-421854911	
4	Education Qualifications	B. E. (CSE), M.E.(CSE)	
5	Work Experience	Teaching	26 Years	Research		Industry	2 Years	oth	
6	Area of Specialization	Computer Network, Data Sci & ML	

7	Courses (Subjects) taught	Under Graduate	Computer Network & Internet,Artificial Intelligence, Database Systems,Theory of Computation, System Software, Compiler Design,Software Engineering,Network Security, Advanced Unix/ Linux Programming,Mobile Computing, Embedded Systems.
		Post Graduate	Operating System Design,Advanced Compiler Design, Algorithmics,Mobile Computing,Embedded Systems Design.

8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	15	Conferences	20
		Masters Degree	Completed	**15**	Ongoing	-		
		Ph.D.	Completed	-	Ongoing	-		

9	Projects Carried out	-

10	Patents	Filled	-	Granted		-

11	Technology Transfer	Worked as a resource person during the STTP on "Image Processing and Machine Learning-hands on training using MATLAB".

12	Research Publications (No. of papers published in)	National	04	International Journal	03	Conferences	03

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-

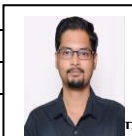| 1	Name	**Vishwanath Sampat Mahalle**								
2	Date of Birth	1st February 1967								
3	Unique ID	1-421855191								
4	Education Qualifications	B. E. (CSE), M.E.(CE), PhD pursuing								
5	Work Experience	Teaching	26 Years	Research		Industry	1 Year	others	-	
6	Area of Specialization	Computer Vision and Machine Learning								
7	Courses (Subjects) taught	Under Graduate	Object Oriented Programming (C++), Object Oriented Programming (Java), Programming Methodology, Data Structures, Object Oriented Analysis and Design,Software Engineering, Network Security, Cryptography.Professional Ethics							
		Post Graduate	Object Oriented System System Security							
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	15	Conferences	20		
		Masters Degree	Completed	14	Ongoing	-				
		Ph.D.	Completed	-	Ongoing	--				
9	Projects Carried out	-								
10	Patents	Filled	-			Granted		-		
11	Technology Transfer	Worked as a resource person during the STTP on "Image Processing and Machine Learning-hands on training using MATLAB".								
12	Research Publications (No. of papers published in)	National	04	International Journal	03	Conferences	03			
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	-								

1	Name	**Jaikumar M. Patil**							
2	Date of Birth	10-Nov-1972							
3	Unique ID	1-1478310273							
4	Education Qualifications	M. Tech (CSE), Ph.D. Pursuing							
5	Work Experience	Teaching	21 Yrs	Research	--	Industry	3 Yrs	others	--
6	Area of Specialization	Data Mining and Learning Analytics							

7	Courses (Subjects) taught	Under Graduate	Computer Programming, Software Engineering, Computer Architecture and Organization, Web Engineering, Computer Organization, Computer Architecture, File Structures and Data Processing, Object Oriented Programming, Programming Methodology, Object Oriented Analysis and Design.
		Post Graduate	Advanced Computer Architecture, Embedded System Design

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	09	Conferences	05
		Masters Degree	Completed	10	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	UG - 18 PG - 12			
10	Patents	Filled	--	Granted	--
11	Technology Transfer	--			

12	Research Publications (No. of papers published in)	National	--	International Journal	21	Conferences	10
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication.)	--					

1	Name	**Dr. Pankaj K. Bharne**							
2	Date of Birth	25-07-1982							
3	Unique ID	1-426009817							
4	Education Qualifications	Ph.D.(CSE), M.E., MBA(HR)							
5	Work Experience	Teaching	10 years 10 Months	Research	03 Years	Industry	1 Year 10 Months	others	--
6	Area of Specialization	SAP HR, Database Administration.							
7	Courses (Subjects) taught	Under Graduate	Artificial Intelligence, Discrete Structure and graph theory,						
		Post Graduate	ACA, OSD						
8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--		Conferences	--
		Masters Degree	Completed	04	Ongoing	--			
		Ph.D.	Completed	--	Ongoing	--			
9	Projects Carried out	07							
10	Patents	Filled	--	Granted	--				
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	-	International Journal	11		Conferences		9
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

1	Name	**Aniket K. Shahade**						
2	Date of Birth	13.03.1991						
3	Unique ID	1-7392848600						
4	Education Qualifications	B.E. (IT), M.E. (Comp. Engg.), MBA (HRM), Ph.D (CSE) Pursuing						
5	Work Experience	Teaching	7 Years	Research	--	Industry	--	others	--
6	Area of Specialization	Natural Language Processing						

7	Courses (Subjects) taught	Under Graduate	Digital Signal Processing, Network Administration &Security,Real-Time Embedded System, Data Structure, Cyber Law & Ethics
		Post Graduate	Network System Design, Mobile Computing, Algorithmic, Advanced Computer Techniques

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing		--	
		Ph.D.	Completed	--	Ongoing		--	

9	Projects Carried out	--			
10	Patents	Filled	--	Granted	--
11	Technology Transfer	--			

12	Research Publications (No. of papers published in)	National	--	International Journal	12	Conferences	11

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--

1	Name	**Ms. Kalyani P. Sable**							
2	Date of Birth	16.11.1988							
3	Unique ID	1-1476665323							
4	Education Qualifications	B.E. (CSE), M.E. (CSE), Pursuing Ph. D.							
5	Work Experience	Teaching	10	Research	--	Industry	--	others	--
6	Area of Specialization	Machine Learning							
7	Courses (Subjects) taught	Under Graduate	Data Structures, Computer Programming, Object Oriented Programming, Discrete Structures, Data Communication, Software Engineering, Data Communication & Networking, Digital Integrated Circuits, Network Security, Database Management Systems, E-commerce.						
		Post Graduate	Algorithmics, Embedded Systems Design						

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	1		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	18			
10	Patents	Filled	--	Granted	--
11	Technology Transfer	--			

12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	3

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-

1	Name	**Lopamudra Samal**							
2	Date of Birth	22/10/2082							
3	Unique ID	1-3599633534							
4	Education Qualifications	MTech							
5	Work Experience	Teaching	10	Research	--	Industry	--	others	--
6	Area of Specialization	VLSI and Embedded System Design							

7	Courses (Subjects) taught	Under Graduate	STLD,EDC,ECD,I&S,ADC,VLSI,ADIC					
		Post Graduate	--					

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing		--	
		Ph.D.	Completed	--	Ongoing		--	

9	Projects Carried out	3			
10	Patents	Filled	--	Granted	--
11	Technology Transfer				
12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	7
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)				

1	Name	**Prof. Ms. Priyanka V. Deshmukh**						
2	Date of Birth	08-10-1990						
3	Unique ID	1-2983384439						
4	Education Qualifications	BE (IT), ME(CE), PhD(Pursuing)						
5	Work Experience	Teaching	8	Research	--	Industry	--	others	--
6	Area of Specialization	Image Processing , Reversible Data Hiding						

7	Courses (Subjects) taught	Under Graduate	Computer Organization , Computer Architecture, Assembly Language programming, Discrete Structure & graph theory, Professional ethics, Digital Signal Processing, Embedded system, Microprocessor & ALP					
		Post Graduate	Algorithmic, Embedded system design					

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	1		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	12				
10	Patents	Filled	--		Granted	--
11	Technology Transfer	--				
12	Research Publications (No. of papers published in)	National	1	International Journal	3	Conferences	7
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--				

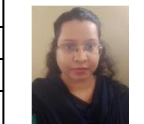| 1	Name	**Prof. Ms. Tejaswani Milind Untawale**							
2	Date of Birth	18-04-1994							
3	Unique ID	1-7398363575							
4	Education Qualifications	M.E.							
5	Work Experience	Teaching	03	Research	--	Industry	--	others	--
6	Area of Specialization	Machine Learning							
7	Courses (Subjects) taught	Under Graduate	Data Structures, Computer Programming, Object Oriented Programming, Discrete Structures, Data Communication, Software Engineering, Data Communication & Networking, Digital Integrated Circuits, Network Security, Database Management Systems, E-commerce.						
		Post Graduate	--						
8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--	
		Masters Degree	Completed	--	Ongoing				
		Ph.D.	Completed	--	Ongoing	--			
9	Projects Carried out	12							
10	Patents	Filled	--	Granted			--		
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	--		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

1	Name	**Prof. Deepavali P. Patil**							
2	Date of Birth	1-008-1985							
3	Unique ID	1-10971449105							
4	Education Qualifications	M.E.(CE)							
5	Work Experience	Teaching	12	Research	0	Industry	1.10	others	0
6	Area of Specialization	Machine Learning, Data Science and Data Analytics							

7	Courses (Subjects) taught	Under Graduate	Computer Programming- C Language,Object Oriented Programming – C++ Language,Design Analysis and Algorithm ,Data Structure, Software Engineering
		Post Graduate	NIL

8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	-	Conferences	-
		Masters Degree	Completed	-	Ongoing	-		
		Ph.D.	Completed	-	Ongoing	-		

9	Projects Carried out	0			
10	Patents	Filled	01	Granted	0
11	Technology Transfer	-			

12	Research Publications (No. of papers published in)	National	5	International Journal	10	Conferences	06

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	0

1	Name	**Shrijeet Bharatbhushan Pagrut**						
2	Date of Birth	07-07-1991						
3	Unique ID	1-10971449117						
4	Education Qualifications	M.E.(CSE)						
5	Work Experience	Teaching	08	Research	0	Industry	0	others	0
6	Area of Specialization	Mobile Computing and Information Security						
7	Courses (Subjects) taught	Under Graduate	Mobile Communication, Data Communication, Network Security, Computer Architecture, File Structure and Data Processing, Theory of Computing, Computer Programming using C					
		Post Graduate	ACA					
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	-	Conferences	-
		Masters Degree	Completed	-	Ongoing	-		
		Ph.D.	Completed	-	Ongoing	-		
9	Projects Carried out	0						
10	Patents	Filled	0			Granted	0	
11	Technology Transfer	-						
12	Research Publications (No. of papers published in)	National	5	International Journal	0	Conferences	0	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	0						

1	Name	**Rupali Anantro Zamare**						
2	Date of Birth	16/10/1983						
3	Unique ID	1-10971449081						
4	Education Qualifications	BE(IT),ME(CSE),MBA(SYSTEMS),PhD(Pursuing)						
5	Work Experience	Teaching	9.5	Research		Industry		others	
6	Area of Specialization	Computer Science and Engineering						

7	Courses (Subjects) taught	Under Graduate	Programming and Problem Solving(Python),Fundamentals of Programming Language, Database Management System,Software architecture Design Patterns, Advance DBMS, ComputerOrganization, Object Oriented Modeling, Information Retrieval and Design,
		Post Graduate	Organizational Behavior and ERP,MIS.

8	Research guidance (Number of Students)	No. of Papers Published in	National	1	International Journals	4	Conferences	--
		Masters Degree	Completed	--	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	15			
10	Patents	Filled	--	Granted	--
11	Technology Transfer				

12	Research Publications (No. of papers published in)	National	1	International Journal	4	Conferences	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.						

1	Name	Hrishikesh Madhav Deshmukh							
2	Date of Birth	02/05/1990							
3	Unique ID	1-11018015861							
4	Education Qualifications	B.E. Information Technology M.E. Computer Engineering							
5	Work Experience	Teaching	4Years	Research			Industry	5Years	others
6	Area of Specialization	Data Structures and Algorithms, Web Technology, Software Engineering							
7	Courses (Subjects) taught	Under Graduate	Fundamentals of Data Structures, Data Structures & Files, Software Engineering, Design and Analysis of Algorithm, Distributed Systems, C- Programming Laboratory						
		Post Graduate	NIL						
8	Research guidance (Number of Students)	No. of Papers Published in	National	NIL	International Journals	NIL	Conferences	2	
		Masters Degree	Completed	NIL		Ongoing		NIL	
		Ph.D.	Completed	NIL		Ongoing		NIL	
9	Projects Carried out								
10	Patents	Filled	NIL	Granted		NIL			
11	Technology Transfer								
12	Research Publications (No. of papers published in)	National	NIL	International Journal	NIL	Conferences	NIL		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	NIL							

1	Name	**Amitkumar Subhashrao Manekar**						
2	Date of Birth	24/05/1983						
3	Unique ID	1-2983384533						
4	Education Qualifications	MTech CSE, Ph.D CSE (REG.)						
5	Work Experience	Teaching	12	Research	NIL	Industry	02	others	NIL
6	Area of Specialization	COMPUTER SCIENCE OF ENGINEERING, HPC, DATA ANALSYSIS, NETWORK SECURITY						
7	Courses (Subjects) taught	Under Graduate	OOAD, OS, SE, UNIX, DCN, CN, OOPS, DBMS					
		Post Graduate	--					
8	Research guidance (Number of Students)	No. of Papers Published in	National	03	International Journals	20	Conferences	15
		Masters Degree	Completed	NA	Ongoing	NA		
		Ph.D.	Completed	NA	Ongoing	NA		
9	Projects Carried out	20						
10	Patents	Filled	NIL		Granted	NIL		
11	Technology Transfer	COPYRIGHT FILLED -02						
12	Research Publications (No. of papers published in)	National	03	International Journal	20	Conferences	15	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	BOOK CHAPTER -02 01. "Metaheuristic Optimization Using Hybrid Algorithmin Cloud-Based Big Data Analytics", Lecture Notes in Networks and Systems VOL 215 IN Proceedings of the2nd InternationalConferenceonComputationalandBioEngineeringCBE 2020SPRINGERS PUBLICATION. ISSN 2367-3370 ISSN 2367-3389 (electronic)ISBN 978-981-16-1940-3 ISBN 978-981-16-1941-0 (eBook)https://doi.org/10.1007/978-981-16-1941-0 2021 02. "Optimizing Cost and Maximizing Profit for Multi-Cloud-Based Big Data Computing by Deadline-Aware Optimize Resource Allocation"Studies in Computational Intelligence 921, Recent Studies on Computational Intelligence Doctoral Symposium on Computational Intelligence (DoSCI 2020) BY SPRINGER, ISSN 1860-949X ISSN 1860-9503 (electronic), ISBN 978-981-15-8468-8 , ISBN 978-981-15-8468-8 ISBN 978-981-15-8469-5 (eBook) https://doi.org/10.1007/978-981-15-8469-5 2021						

1	Name	**Ms.Priti Vasant Kale**							
2	Date of Birth	2nd April 1983							
3	Unique ID	1-426009657							
4	Education Qualifications	M.Tech., I.T. Ph.D. CSE Pursuing							
5	Work Experience	Teaching	16 Years	Research	02 Years	Industry	--	others	--
6	Area of Specialization	Biomedical Image Processing							
7	Courses (Subjects) taught	Under Graduate	Object Oriented Programming, Operating Systems, Computer Networks, Distributed Database Management Systems						
		Post Graduate	Advanced Computer Networks						
8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	01	Conferences	--	
		Masters Degree	Completed	01	Ongoing	--			
		Ph.D.	Completed	--	Ongoing	--			
9	Projects Carried out	--							
10	Patents	Filled	--	Granted	--				
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	--	International Journal	05	Conferences	02		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--							

1	Name	**Anand G Sharma**	
2	Date of Birth	04/11/1988	
3	Unique ID	1-7428356968	
4	Education Qualifications	BE,M-Tech, PhD (Pursuing)	
5	Work Experience	Teaching	10	Research		Industry		others	

6	Area of Specialization	Digital Logic,Software Engineering

7	Courses (Subjects) taught	Under Graduate	Digital Integrated Circuits E Commerce Introduction to Computer Networks Object Oriented Programming Web Technology Software Engineering Cyber Law and Ethics Digital and Wireless Communication
		Post Graduate	NIl

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	Nil

10	Patents	Filled	--	Granted	--

11	Technology Transfer	Nil

12	Research Publications (No. of papers published in)	National	--	International Journal	7	Conferences	--

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil

1	Name	**M. Faizan I. Khandwani**						
2	Date of Birth	07/08/1991						
3	Unique ID	1-7392849073						
4	Education Qualifications	Master of Engineering (Computer Science and Engineering)						
5	Work Experience	Teaching	09	Research		Industry		others	
6	Area of Specialization	Database Management, Data Mining						

7	Courses (Subjects) taught	Under Graduate	Big Data Analytics,Database Management Systems Computer Organization and Architecture,Analog and Digital Electronics, Distributed Database Management Systems,Data Warehousing and Data Mining,E-Commerce,Computer Architecture and Organization , Electronic Devices and Circuits,Communication Engineering Computer Programming,Visual C++,Object-Oriented Programming Unified Modeling Language				
		Post Graduate	--				

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	--			
10	Patents	Filled	--	Granted	--
11	Technology Transfer				

12	Research Publications (No. of papers published in)	National	--	International Journal	03	Conferences	01
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)						

1	Name	**Sagar DamodarPadiya**							
2	Date of Birth	07/06/1987							
3	Unique ID	1-2376823465							
4	Education Qualifications	M.Tech (I.T.), Ph.D. (CSE) Pursuing							
5	Work Experience	Teaching	12	Research	-	Industry	-	others	-
6	Area of Specialization	Wireless Network, Network Protocol Design							

7	Courses (Subjects) taught	Under Graduate	Computer Programming (C, C++) Discrete Structure & Graph Theory Communication Engineering E-Commerce Web- Commerce Real Time embedded System
		Post Graduate	-

8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	03	Conferences	-
		Masters Degree	Completed	-	Ongoing	-		
		Ph.D.	Completed	-	Ongoing	-		

9	Projects Carried out	Design and Development of Featherweight Eddystone Protocol for BLE Beacon				
10	Patents	Filled	01	Granted	NIL	
11	Technology Transfer	NIL				
12	Research Publications (No. of papers published in)	National	-	International Journal	07	Conferences	03

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	01 Chapter 10: Analysis of Bluetooth Versions (4.0, 4.2, 5, 5.1, and 5.2) for IoT Applications (pages 153-178) in the Implementing Data Analytics and Architectures for Next Generation Wireless Communications, IGI Global, ISBN13: 9781799869887, 2021.

1	Name	**Sumit Sanjay Muddalkar**							
2	Date of Birth	21-08-1989							
3	Unique ID	1-7419115038							
4	Education Qualifications	MTECH in Computer Science and Engineering							
5	Work Experience	Teaching	6yrs	Research	-	Industry	3 yrs& 9 months	others	-
6	Area of Specialization	Cloud Computing, Operating System, Data Science							
7	Courses (Subjects) taught	Under Graduate	Computer Programming, Discrete Structure, Operating System, Theory of Computation, Web Technology, Introduction to Computer Networks, Ecommerce, Unix Laboratory, HTML Laboratory, Content Management System Using Joomla Laboratory						
		Post Graduate	-						
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	-	Conferences		-
		Masters Degree	Completed	-	Ongoing	-			
		Ph.D.	Completed	-	Ongoing	-			
9	Projects Carried out	Android Application for Auto-Lounge, Pune & Web Application for Beyond Temptations, Pune							
10	Patents	Filled	-		Granted	-			
11	Technology Transfer	Hands-on workshop on Talend ETL Tool for students.							
12	Research Publications (No. of papers published in)	National	-	International Journal	03	Conferences	-		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-							

1	Name	**Pallavi Bute**										
2	Date of Birth	20/05/1988										
3	Unique ID	1-3359301266										
4	Education Qualifications	Master of Engineering										
5	Work Experience	Teaching	8	Research	--	Industry	--	others	--			
6	Area of Specialization	Computer Science & Engineering										
7	Courses (Subjects) taught	Under Graduate		ALP,ICN, NAS,DAA,OS								
		Post Graduate		-								
8	Research guidance (Number of Students)	No. of Papers Published in		National		-	International Journals	1	Confer ences	-		
		Masters Degree		Completed		-	Ongoing		-			
		Ph.D.		Completed		-	Ongoing		-			
9	Projects Carried out											
10	Patents	Filled		-		Granted		-				
11	Technology Transfer											
12	Research Publications (No. of papers published in)	National	-	International Journal		-		Conferences	2			
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	–										

1	Name	**PRITAM H.GOHATRE**							
2	Date of Birth	12.02.1983							
3	Unique ID	1-7419422168							
4	Education Qualifications	BE (Comp.Tech.) M.Tech(Sof.Syst.(CSE))							
5	Work Experience	Teaching	13	Research		Industry	6 Months	others	
6	Area of Specialization	Data Mining, Computer Network Security, Software Testing, Cloud Computing							

7	Courses (Subjects) taught	Under Graduate	Computer Programming,Introduction to Computer, E-Commerce, Electronics Device and Circuit				
		Post Graduate	---				

8	Research guidance (Number of Students)	No. of Papers Published in	National	---	International Journals	---	Conferences	---
		Masters Degree	Completed	---	Ongoing	---		
		Ph.D.	Completed	---	Ongoing	---		

9	Projects Carried out	---			
10	Patents	Filled	---	Granted	---
11	Technology Transfer				

12	Research Publications (No. of papers published in)	National	01	International Journal	06	Conferences	02

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	---

1	Name	**Krutika Jayant Sapkal**						
2	Date of Birth	08/03/1992						
3	Unique ID	1-7398363427						
4	Education Qualifications	PGDBA(Pursuing), M.Tech(CSE), B.E.(CSE)						
5	Work Experience	Teaching	5.6	Research	-	Industry	-	others	-

6	Area of Specialization	Machine Learning, Data Science and Analytics				

| 7 | Courses (Subjects) taught | Under Graduate | TOC, AI, ML, DSS, DDBMS, SE | | | |
| | | Post Graduate | - | | | |

8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	00	Conferences	01
		Masters Degree	Completed	-	Ongoing	-		
		Ph.D.	Completed	-	Ongoing	-		

9	Projects Carried out	18			

10	Patents	Filled	01	Granted	-

11	Technology Transfer	-					

12	Research Publications (No. of papers published in)	National	-	International Journal	01	Conferences	04

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-

➢ Department of Applied Sciences & Humanities (First Year)

1	Name	**Dr.NarhariAmbadasPatil**							
2	Date of Birth	30-06-1963							
3	Unique ID	1-425753701							
4	Education Qualifications	M.Sc.,M.Phil., Ph.D.							
5	Work Experience	Teaching	35	Research	8	Industry	Nil	others	BOS
6	Area of Specialization	Integral Transform, Differential Equations, Partial Differential Equations, Fourier, Laplace, Wavelet Transform & its applications in Engineering							

7	Courses (Subjects) taught	Under Graduate	35
		Post Graduate	04

8	Research guidance (Number of Students)	No. of Papers Published in	National	03	International Journals	20	Conferences	30
		Masters Degree	Completed	Nil		Ongoing	Nil	
		Ph.D.	Completed	03		Ongoing	01	

9	Projects Carried out	Nil			
10	Patents	Filled	Nil	Granted	Nil
11	Technology Transfer	Nil			

12	Research Publications (No. of papers published in)	National	03	International Journal	20	Conferences	41

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	1 Patil N. A. (1995-2010) Engineering Mathematics-I, Published by Principal, SSGMCE, Publication, Shegaon. This book has been included in the list of text books recommended in the syllabus of B.E. / B.Tech. / B.Text. / Chemical Engineering courses by SGB Amravati University, Amravati Vide its Gazette Notification No. 106/2001 DATED9.11.2001. 2. Patil N. A. (1995-2010) Engineering Mathematics-II, Published by Principal, SSGMCE, Publication, Shegaon. This book has been included in the list of text books recommended in the syllabus of B.E. / B.Tech. / B.Text. / Chemical Engineering courses by SGB Amravati University, Amravati Vide its Gazette Notification No. 106/2001 DATED 9.11.2001. 3.Patil N. A., &Yenkar S. V. (1996-2000), Engineering Mathematics-III, Published by Principal, SSGMCE, Publication, Shegaon.

1	Name	**Anil VasantraoPatil**						
2	Date of Birth	09/09/1968						
3	Unique ID	1-425739421						
4	Education Qualifications	M.Sc. M. Phil, P.G.D.I.P.M						
5	Work Experience	Teaching	29	Research	2	Industry	1	others	0
6	Area of Specialization	Organic Chemistry, Environmental Chemistry						

7	Courses (Subjects) taught	Under Graduate	Engineering Chemistry, Applied Chemistry, Environmental Science					
		Post Graduate	---					

8	Research guidance (Number of Students)	No. of Papers Published in	National	---	International Journals	---	Conferences	---
		Masters Degree	Completed	---	Ongoing	---		
		Ph.D.	Completed	---	Ongoing	---		

9	Projects Carried out	---				
10	Patents	Filled	---	Granted	---	
11	Technology Transfer	---				
12	Research Publications (No. of papers published in)	National	1	International Journal	---	Conferences	02
13	No. of Books published with details	---				

1	Name	**DR. RAJESHMAHADEORAOKHARATE**							
2	Date of Birth	24/08/1973							
3	Unique ID	1-425753859							
4	Education Qualifications	Ph.D. B.Ed. M.Sc.							
5	Work Experience	Teaching	24	Research	09	Industry	Nil	others	BOS
6	Area of Specialization	Synthetic Organic Chemistry ,Polymers ,Environmental Chemistry							

7	Courses (Subjects) taught	Under Graduate	03			
		Post Graduate	00			

8	Research guidance (Number of Students)	No. of Papers Published in	National	05	International Journals	03	Conferences	03
		Masters Degree	Completed	Nil	Ongoing	Nil		
		Ph.D.	Completed	00	Ongoing	00		

9	Projects Carried out	Nil			
10	Patents	Filled	Nil	Granted	Nil
11	Technology Transfer	Nil			

12	Research Publications (No. of papers published in)	National	03	International Journal	05	Conferences	03

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	A Text Book of Engineering ChemistryDnyanpathPublication, Amravati First Edition: 14th Feb.2016

1	Name	**Mr. Prashant Ishwar Chaure**						
2	Date of Birth	17th October 1973						
3	Unique ID	1-425521425						
4	Education Qualifications	B.E.(Civil), M.E.						
5	Work Experience	Teaching	17	Research	--	Industry	25	others	--
6	Area of Specialization	Structural Designing, Waste water Treatment, Environmental Engineering						

7	Courses (Subjects) taught	Under Graduate	Mechanics, Engineering Drawing, Fluid Mechanics			
		Post Graduate	Nil			

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	Smart stick for blind people.			
10	Patents	Filled	1	Granted	Nil
11	Technology Transfer	Nil			

12	Research Publications (No. of papers published in)	National	4	International Journal	2	Conferences	Nil
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil					

1	Name	**N.S.Thakare**							
2	Date of Birth	14/10/1971							
3	Unique ID	1-425753709							
4	Education Qualifications	M.Sc,B.Ed,M.Phil.							
5	Work Experience	Teaching	15	Research	1	Industry	--	others	6
6	Area of Specialization	Integral Transform							

7	Courses (Subjects) taught	Under Graduate	M-I,M-II,M-III,M-IV,NMOT,ORM,OT,NMORT
		Post Graduate	--

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	In NSS.				
10	Patents	Filled	--	Granted		--
11	Technology Transfer	Rural Development Related.				

12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	01

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--

1	Name	**Anil Shamrao Alane**							
2	Date of Birth	19/07/1979							
3	Unique ID	1-425753767							
4	Education Qualifications	M.Sc. B.Ed							
5	Work Experience	Teaching	12	Research		Industry		others	0
6	Area of Specialization	Organic Chemistry, Environmental Chemistry							
7	Courses (Subjects) taught	Under Graduate	Engineering Chemistry, Environmental Studies						
		Post Graduate	---						
8	Research guidance (Number of Students)	No. of Papers Published in	National	---	International Journals	---	Conferences	---	
		Masters Degree	Completed	---	Ongoing	---			
		Ph.D.	Completed	---	Ongoing	---			
9	Projects Carried out	---							
10	Patents	Filled	---	Granted		---			
11	Technology Transfer	---							
12	Research Publications (No. of papers published in)	National	--	International Journal	---	Conferences	02		
13	No. of Books published with details	---							

1	Name	**Prof.HarshaliS.Patil**						
2	Date of Birth	09-09-1983						
3	Unique ID	1-426010049						
4	Education Qualifications	B.Sc, B.Ed, M.A.(English Lit), P.G.Diploma in English Communication Skills, M.B.A.						
5	Work Experience	Teaching	12 Years	Research	--	Industry	2 years	others	--
6	Area of Specialization	English Communication Skills, H. R.,Marketing						
7	Courses (Subjects) taught	Under Graduate	Communication Skills, IMQC, Soft Skills training & Spoken English workshop					
		Post Graduate	----					
8	Research guidance (Number of Students)	No. of Papers Published in	National	---	International Journals	-----	Conferences	--
		Masters Degree	Completed	--	Ongoing			
		Ph.D.	Completed	--	Ongoing			
9	Projects Carried out	--------						
10	Patents	Filled	-------	Granted		--------		
11	Technology Transfer	---------						
12	Research Publications (No. of papers published in)	National	-----------	International Journal	-----------	Conferences	-----------
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-------------						

1	Name	**Kanchan Prakash Deshmukh**							
2	Date of Birth	19/09/1985							
3	Unique ID	1-698260803							
4	Education Qualifications	M.Sc. B.Ed.							
5	Work Experience	Teaching	11	Research	--	Industry	--	others	--
6	Area of Specialization	Pure Mathematics , Applied Mathematics							

7	Courses (Subjects) taught	Under Graduate	Engineering Mathematics-I,II,III Numerical methods and Operation Research Techniques					
		Post Graduate	---					

8	Research guidance (Number of Students)	No. of Papers Published in	National	---	International Journals	---	Conferences	---
		Masters Degree	Completed	---	Ongoing	---		
		Ph.D.	Completed	---	Ongoing	---		

9	Projects Carried out	---				
10	Patents	Filled	---	Granted	---	
11	Technology Transfer	---				
12	Research Publications (No. of papers published in)	National	--	International Journal	---	Conferences	--
13	No. of Books published with details	---				

1	Name	**Bhagat Sachin Vasant**							
2	Date of Birth	30/06/1985							
3	Unique ID	1-2188734219							
4	Education Qualifications	M.A., M. Phil, UGC-NET, Diploma in Mass Media							
5	Work Experience	Teaching	09 Years	Research	-	Industry	-	others	-
6	Area of Specialization	English Language, Communication Skills, Soft Skills							
7	Courses (Subjects) taught	Under Graduate	Communication Skills, Social Science and Engineering Economics, Professional Ethics						
		Post Graduate	-						
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	-	Conferences	-	
		Masters Degree	Completed	-	Ongoing	-			
		Ph.D.	Completed	-	Ongoing	-			
9	Projects Carried out	-							
10	Patents	Filled	-	Granted	-				
11	Technology Transfer	-							
12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	--		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-							

1	Name	**PANKAJ SHALIGRAM DHOKANE**						
2	Date of Birth	31 MAY 1986						
3	Unique ID	1-2376921375						
4	Education Qualifications	M.Sc. B.ed						
5	Work Experience	Teaching	10	Research	-	Industry	-	others	-
6	Area of Specialization	MATHEMATICS						
7	Courses (Subjects) taught	Under Graduate	ENGINEERING MATHEMATICS-I ,II , III					
		Post Graduate	-					
8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	-	Conferences	-
		Masters Degree	Completed	-	Ongoing	-		
		Ph.D.	Completed	-	Ongoing	-		
9	Projects Carried out	-						
10	Patents	Filled	-	Granted	-			
11	Technology Transfer	-						
12	Research Publications (No. of papers published in)	National	-	International Journal	-	Conferences	-	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-						

1	Name	**RutikaRaut**							
2	Date of Birth	05/03/1996							
3	Unique ID	1-4459733609							
4	Education Qualifications	M.Sc Physics							
5	Work Experience	Teaching	4 Years	Research	--	Industry	--	others	2 Years
6	Area of Specialization	None							
7	Courses (Subjects) taught	Under Graduate	Engineering Physics (1A2)						
		Post Graduate	--						
8	Research guidance (Number of Students)	No. of Papers Published in	National	Nill	International Journals	Nill	Conferences	Nill	
		Masters Degree	Completed	Nill		Ongoing	Nill		
		Ph.D.	Completed	Nill		Ongoing	Nill		
9	Projects Carried out	Fabrication of Power Suplies& Synthesis of Luminisce Sample							
10	Patents	Filled	Nill		Granted	Nill			
11	Technology Transfer	--							
12	Research Publications (No. of papers published in)	National	Nill	International Journal	Nill	Conferences	Nill		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nill							

1	Name	**Anand Shriram Tale**						
2	Date of Birth	21/12/1985						
3	Unique ID	1-7398363804						
4	Education Qualifications	M.Sc,Ph.D						
5	Work Experience	Teaching	12	Research	--	Industry	--	others	--
6	Area of Specialization	Physics						
7	Courses (Subjects) taught	Under Graduate	Engineering Physics					
		Post Graduate	--					
8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	--		
9	Projects Carried out							
10	Patents	Filled	--			Granted	--	
11	Technology Transfer							
12	Research Publications (No. of papers published in)	National	--	International Journal	06	Conferences		
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--						

1	Name	**Dr. Mrs. Manisha Sandeep Pande**						
2	Date of Birth	03/10/1982						
3	Unique ID	1-3599702359						
4	Education Qualifications	M.Sc.(Physics), B.Ed., Ph.D.						
5	Work Experience	Teaching	13	Research	05	Industry		others
6	Area of Specialization	Solid State Physics, X-Rays						

7	Courses (Subjects) taught	Under Graduate	Physics					
		Post Graduate	--					

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out							
10	Patents	Filled	--	Granted	--			
11	Technology Transfer							
12	Research Publications (No. of papers published in)	National	02	International Journal	03	Conferences	06
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)							

1	Name	**GUNWANT LAXMAN BAYASKAR**						
2	Date of Birth	28/09/1967						
3	Unique ID	1-421854919						
4	Education Qualifications	M.A. Mped						
5	Work Experience	Teaching	30	Research	-	Industry	-	others	-
6	Area of Specialization	Coaching in Basket Ball / Hand Ball						

7	Courses (Subjects) taught	Under Graduate	All Indoor &Out door sports.
		Post Graduate	All Indoor &Out door sports.

8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	-	Conferences	-
		Masters Degree	Completed	-	Ongoing	-		
		Ph.D.	Completed	-	Ongoing	-		

9	Projects Carried out	-

10	Patents	Filled	-	Granted	-

11	Technology Transfer	-

12	Research Publications (No. of papers published in)	National	-	International Journal	-	Conferences	-

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-

1	Name	**Mr. Rahul Vijay Pahurkar**						
2	Date of Birth	07-04-1983						
3	Unique ID	1-7398363883						
4	Education Qualifications	M.A. Mped						
5	Work Experience	Teaching	--	Research	-	Industry	-	others	-
6	Area of Specialization	Coaching in Basket Ball / Hand Ball						

7	Courses (Subjects) taught	Under Graduate	All Indoor &Out door sports.					
		Post Graduate	All Indoor &Out door sports.					

8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	-	Conferences	-
		Masters Degree	Completed	-	Ongoing	-		
		Ph.D.	Completed	-	Ongoing	-		

9	Projects Carried out	-			
10	Patents	Filled	-	Granted	-
11	Technology Transfer	-			

12	Research Publications (No. of papers published in)	National	-	International Journal	-	Conferences	-
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-					

1	Name	**DarshanPrabhakarraoTarale**						
2	Date of Birth	22/10/1974						
3	Unique ID							
4	Education Qualifications	M.C.A.						
5	Work Experience	Teaching	5	Research	--	Industry	--	others	15
6	Area of Specialization	ERP (ENTERPRISE RESOURCE PLANNING)						

7	Courses (Subjects) taught	Under Graduate	--
		Post Graduate	SYSTEM SOFTWARE,JAVA,FILE STRUCTURE,OS DESIGN

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	SAP ERP project for charitable trust Shri Sant Gajanan Maharaj Temple, Shegaon SAP ERP ROLL OUT PROJECT FOR CHARITABLE TRUST SAP ERP project for SSGMCE SHEGAON SAP ERP project for GAJANAN MAHARAJ ENGLISH SCHOOL SAP ERP PROJECT for STUDENT CONSUMER COOPERATIVE STORE STUDENT INFORMATION SYSTEM for SSGMCE

10	Patents	Filled	--	Granted	--
11	Technology Transfer				

12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	--

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	--

1	Name	**Sandip Diwakar Phuse**						
2	Date of Birth	02/09/1971						
3	Unique ID							
4	Education Qualifications	M.C.A.						
5	Work Experience	Teaching	5	Research	--	Industry	--	others	15
6	Area of Specialization	ERP (ENTERPRISE RESOURCE PLANNING)						

7	Courses (Subjects) taught	Under Graduate	
		Post Graduate	SYSTEM SOFTWARE,C Language, C++ Language,FILE STRUCTURE, Compiler Design,

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	--	Ongoing	--		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	SAP ERP project for charitable trust Shri Sant Gajanan Maharaj Temple, Shegaon SAP ERP ROLL OUT PROJECT FOR CHARITABLE TRUST SAP ERP project for SSGMCE SHEGAON SAP ERP project for GAJANAN MAHARAJ ENGLISH SCHOOL SAP ERP PROJECT for STUDENT CONSUMER COOPERATIVE STORE STUDENT INFORMATION SYSTEM for SSGMCE

10	Patents	Filled	--	Granted	--

11	Technology Transfer	

12	Research Publications (No. of papers published in)	National	--	International Journal	--	Conferences	--

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	

Department of M.B.A.

1	Name	**Dr. H. M. Jha "Bidyarthi"**						
2	Date of Birth	13th December 1957						
3	Unique ID	1-424042596						
4	Education Qualifications	Ph.D., M.B.A., I.D.D. (D. H.)						
5	Work Experience	Teaching	38 Years	Research	28 Years	Industry	05 Years	others	NA
6	Area of Specialization	Marketing and Finance						
7	Courses (Subjects) taught	Under Graduate	Industrial Management and Quality Control					
		Post Graduate	Managerial Skills Development, Accounting for Managers, Finance Management, Business Environment, Organizational Behavior for Change, Security Analysis and Portfolio Management, Financial Derivatives, Agro Business Marketing, Marketing Research, Foreign Exchange Market, Insurance Management, Strategic Management					
8	Research guidance (Number of Students)	No. of Papers Published in	National	13	International Journals	13	Conferences	23
		Masters Degree	Completed	280	Ongoing	08		
		Ph.D.	Completed	11	Ongoing	Nil		
9	Projects Carried out	Two Projects under RPS Scheme of AICTE, New Delhi						
10	Patents	Filled	Nil			Granted	Nil	
11	Technology Transfer	NA						
12	Research Publications (No. of papers published in)	National	13	International Journal	13	Conferences	23	
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil						

1	Name	**Dr. Laxmikant Baburao Deshmukh**						
2	Date of Birth	31/08/1976						
3	Unique ID	1-425658663						
4	Education Qualifications	BE (Mech), MBA(Marketing), PhD(Business Management) V-SAT (S						
5	Work Experience	Teaching	18 yrs	Research	12 Yrs	Industry	3 Yrs	others
6	Area of Specialization	Marketing Management and Production Operations Management						

7	Courses (Subjects) taught	Under Graduate	B.E.(EXTC), B. Sc (Mechanical Engineering) & BBA Business Statistics, Sales and Distribution Management, Marketing Management, Instrumentation, Industrial Management and Quality Control etc.		
		Post Graduate	MM, QM, POM, ME, MIS, RM, LM, SDM, AM, CB,RTM, IMQC, TM, HBAW, HRD		

8	Research guidance (Number of Students)	No. of Papers Published in	National	11	International Journals	03	Conferences	10
		Masters Degree	Completed	163	Ongoing	08		
		Ph.D.	Completed	Nil	Ongoing	Nil		

9	Projects Carried out	Nil			
10	Patents	Filled	Nil	Granted	Nil
11	Technology Transfer	Nil			

12	Research Publications (No. of papers published in)	National	11	International Journal	3	Conferences	10
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Innovation Management; In Pipe line by Bloomsbury Publishing House Will be published by Apr 2022					

1	Name	**Dr. Pavan Mahadeo Kuchar**						
2	Date of Birth	27-12-1983						
3	Unique ID	1-423118306						
4	Education Qualifications	B. Pharmacy, MBA, UGC-NET, Ph.D.						
5	Work Experience	Teaching	12.5	Research	12.5	Industry	10 months	others	--
6	Area of Specialization	Marketing, Strategic Management						

7	Courses (Subjects) taught	Under Graduate	Industrial Management and Quality Control (IMQC); BE-EXTC-Sem 4,Principles of Management (POM); BE-IT-Sem 6 Principles of e-Marketing for Engineering (PEME) BE-Open Elective-Sem 5; Healthcare and Hospitality Management (HCHM) – BBA Sem 3
		Post Graduate	Principles and Practices of Management - MBA/101 Computer Applications in Management – MBA/107 (Discontinued) Logistics Management – MBA/207 Indian Financial System – MBA3101/F International Marketing Strategy – MBA/3201/M Sales and Distribution Management – MBA/3202/M Brand Management – MBA/3205/M Performance Management – MBA/3306/H Strategic Management – MBA/401 Sales Promotion Management – MBA/4201/SM Marketing of Services – MBA/4202/SM Marketing of Social Services – MBA Sem 4 (Discontinued) International HRM – MBA/4306/OB

8	Research guidance (Number of Students)	No. of Papers Published in	National	--	International Journals	--	Conferences	--
		Masters Degree	Completed	72	Ongoing	08		
		Ph.D.	Completed	--	Ongoing	--		

9	Projects Carried out	--			
10	Patents	Filled	--	Granted	--
11	Technology Transfer	--			
12	Research Publications (No. of papers published in)	National	01	International Journal	09	Conferences	18
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	---					

1	Name	**Mayur Anil Dande**							
2	Date of Birth	22 August 1984							
3	Unique ID	1-423118310							
4	Education Qualifications	B.Sc., M.B.A., UGC- NET, Ph.D.							
5	Work Experience	Teaching	12	Research	12	Industry	0	others	0
6	Area of Specialization	Marketing							

7	Courses (Subjects) taught	Under Graduate	Marketing Management, Values and Ethics
		Post Graduate	Business Ethics, Marketing Management, Consumer Behavior, Brand Management, Advertising Management, Sales Promotion, Strategic Marketing for Non profit Organizations and Social Services, Management of financial services

8	Research guidance (Number of Students)	No. of Papers Published in	National	00	International Journals	00	Conferences	04
		Masters Degree	Completed	72	Ongoing	08		
		Ph.D.	Completed	00	Ongoing	00		

9	Projects Carried out	72 projects related to areas like Consumer Behavior, Brand Management, Advertising, Marketing, Financial Services etc.					
10	Patents	Filled	00		Granted	00	
11	Technology Transfer	Nil					
12	Research Publications (No. of papers published in)	National	01	International Journal	09	Conferences	21
13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil					

1	Name	**Dr. Satya Mohan Mishra**								
2	Date of Birth	01/03/1985								
3	Unique ID	1-424042464								
4	Education Qualifications	Ph.D.; MBA(PGDM)								
5	Work Experience	Teaching	12	Research		10	Industry	0	others	0
6	Area of Specialization	Finance, Banking & Economics								

7	Courses (Subjects) taught	Under Graduate	Principles of Economics; Management Accounting; Indian Economy
		Post Graduate	Managerial Economics; Financial Management; Banking System; Investment Science; Compensation Management; Security Analysis & Portfolio Management; Financial Derivatives

8	Research guidance (Number of Students)	No. of Papers Published in	National	0	International Journals	0	Conferences	1
		Masters Degree	Completed	75	Ongoing	8		
		Ph.D.	Completed	NA	Ongoing	NA		

9	Projects Carried out	Nil			
10	Patents	Filled	Nil	Granted	Nil
11	Technology Transfer	Nil			

12	Research Publications (No. of papers published in)	National	2	International Journal	3	Conferences	

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil

1	Name	**Prof. Wechansing Zyamsing Suliya**							
2	Date of Birth	15-03-1986							
3	Unique ID	1-1435368830							
4	Education Qualifications	B.sc (Microbiology),MBA(Human Resource Management and Production Management)							
5	Work Experience	Teaching	10	Research	10	Industry	1	others	-
6	Area of Specialization	Human Resource Management and Production Management							

7	Courses (Subjects) taught	Under Graduate	_					
		Post Graduate	Organizational Behavior and Effectiveness, Human Resource Management, Management of Industrial relations, Human Relations and Legal framework, International Marketing, Rural Marketing, Knowledge Management, Corporate Leadership Management.					

8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	-	Conferences	-
		Masters Degree	Completed	80	Ongoing	8		
		Ph.D.	Completed	-	Ongoing	-		

9	Projects Carried out	1. Designing and fabrication of compressed concrete Bricks making machine (Working on Mechanical Engineering Project)-Project completed testing is in process. 2. Designing automated poultry chick hatching machine (Working on Electronics Engineering Project) -Project completed testing is in process.

10	Patents	Filled	2 in Process	Granted	-

11	Technology Transfer	-						

12	Research Publications (No. of papers published in)	National	-	International Journal	-	Conferences	4

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication,etc.)	-

1	Name	**VISHAL VINAYAKRAO PATIL**							
2	Date of Birth	02-01-1980							
3	Unique ID	1-7393461729							
4	Education Qualifications	LL.B, M.B.A.(FIN), DSK&PD, M.A.(Eco), Ph.D. (Pursuing)							
5	Work Experience	Teaching	12	Research	0	Industry	0	others	4
6	Area of Specialization	Law, Finance and Human Resource Management							
7	Courses (Subjects) taught	Under Graduate	Business Legislation, Company Account, Advance Account						
		Post Graduate	• Business Law• Management Science •Accounting of Mangers • Organizational Development & Intervention Strategies • Management of Financial Services • Financial Decision Analysis • Human Resources Development • Risk Management • Working Capital Management						

8	Research guidance (Number of Students)	No. of Papers Published in	National	0	International Journals	2	Conferences	0
		Masters Degree	Completed	49	Ongoing	8		
		Ph.D.	Completed	NA	Ongoing	NA		

9	Projects Carried out	-NIL-			
10	Patents	Filled	-NIL-	Granted	-NIL-
11	Technology Transfer	-NIL-			
12	Research Publications (No. of papers published in)	National	1	International Journal	4	Conferences	4

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Human Resource Management (Sai Jyoti Publication) ISBN No. 978-93-81432-41-9

1	Name	**Bilal Husain**							
2	Date of Birth	31-10-1992							
3	Unique ID	1-9312315964							
4	Education Qualifications	PhD persuing, MMS -Finance, BTech -Extc							
5	Work Experience	Teaching	2	Research	1	Industry	2	others	
6	Area of Specialization	Finance							

7	Courses (Subjects) taught	Under Graduate	Principles of Management
		Post Graduate	Security Analysis and Portfolio Management, Project Management, Principles and practices of Management, Management of Information systems, Research Methodology, Management of Training and Development, Investment Science, International Financial Management, Strategic Management

8	Research guidance (Number of Students)	No. of Papers Published in	National	-	International Journals	-	Conferences	1
		Masters Degree	Completed	10	Ongoing	8		
		Ph.D.	Completed	-	Ongoing	-		

9	Projects Carried out	-			
10	Patents	Filled	-	Granted	-
11	Technology Transfer	-			
12	Research Publications (No. of papers published in)	National	1	International Journal	1	Conferences	2

13	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-

9. Fee

➤ Details of Fee, as approved by State Fee committee, for the Institution

SN	Academic Year	Tuition Fees	Development Fees	Total Fees
*U.G. – Engineering				
1	2018-2019	95964	11036	107000
2	2019-2020	98754	12246	111000
3	2020-2021	106477	13523	120000
*P.G. – M.E.				
1	2018-2019	49647	4853	54500
2	2019-2020	45251	5749	51000
3	2020-2021	47026	5974	53000
*M.B.A.				
1	2018-2019	80268	9232	89500
2	2019-2020	81631	10369	92000
3	2020-2021	88732	11268	100000

Fees of the Institute are finalized by Fees Regulating Authority, Maharashtra State, Mumbai

- ➤ **Time Schedule for payment of Fee for the entire Programme.**
- ➤ **No. of Fee waivers granted with amount and name of students**
- ➤ **Number of scholarship offered by the Institution, duration and amount**
- ➤ **Criteria for Fee waivers/scholarship**
- ➤ **Estimated cost of Boarding and Lodging in Hostels**
- ➤ **Any other fee please specify**

10. Admission

➤ **Number of seats sanctioned with the year of approval**

Programmes	Level	Course	No. of Seats Approved 2021-22
Engineering Technology	Under Graduate	Computer Science And Engineering	60
		Electronics and Telecommunication Engineering	120
		Mechanical Engineering	60
		Electrical Engineering (Electronics and Power)	60
		Information Technology	60
	Post Graduate	Electrical Power System	18
		Digital Electronics	18
		Computer Engineering	18
		Advanced Manufacturing and Mechanical System Design	18
Management	Post Graduate	M.B.A.	60

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

Year	Open	OBC	SC	ST	NT	DTVJ	TFWS	EWS	PMSSS/ NEUT	Total
B.E. Computer Science and Engineering (UG)										
2018-19	24	24	01	03	07	01	03	00	02	65
2019-20	12	38	05	01	03	01	03	05	02	70
2020-21	20	29	06	02	02	01	03	06	01	70
B.E. Electronics and Telecommunication Engineering (UG)										
2018-19	42	55	14	00	06	03	05	00	00	125
2019-20	19	82	10	00	06	03	06	08	01	135
2020-21	37	65	10	00	06	02	06	12	00	138
B.E. Electrical Engineering (Electronics and Power) (UG)										
2018-19	18	29	05	01	06	01	03	00	00	63
2019-20	06	41	05	02	04	01	03	01	01	64
2020-21	04	33	07	01	09	01	02	03	00	60
B.E. Mechanical Engineering (UG)										
2018-19	16	30	05	03	05	01	01	00	00	61
2019-20	07	40	05	01	07	00	03	00	00	63
2020-21	05	28	09	00	02	02	03	02	00	51
B.E. Information Technology (UG)										
2018-19	20	30	06	01	02	01	03	00	00	63
2019-20	18	30	07	01	03	01	03	05	00	68
2020-21	11	34	05	00	09	01	03	06	00	69
M.E. Eletrical Power System										
2018-19	03	04	00	00	01	00	00	00	00	08
2019-20	02	01	00	00	00	00	00	00	00	03
2020-21	01	01	00	00	00	00	00	00	00	02
M.E. Digital Electronics										
2018-19	03	02	00	00	00	00	00	00	00	05
2019-20	01	00	01	00	00	00	00	00	00	02
2020-21	01	00	01	00	00	00	00	00	00	02
M.E. Computer Engineering										
2018-19	03	07	00	00	01	00	00	00	00	11
2019-20	04	02	01	00	00	00	00	00	00	07
2020-21	01	01	01	00	00	01	00	00	00	04
M.E. Advanced Manufacturing and Mechanical System Design										
2018-19	02	02	00	00	00	00	00	00	00	04
2019-20	04	02	01	00	01	00	00	00	00	08
2020-21	01	02	00	00	00	00	00	00	00	03
M.B.A.										
2018-19	17	31	06	00	06	00	00	00	00	60
2019-20	15	35	05	00	05	00	00	05	00	65
2020-21	19	33	05	00	04	00	02	05	00	68

> **Number of applications received during last two year for admission under Management Quota and number admitted**

Year	Number of Application Received	Number of Students Admitted
B.E. Engineering		
2019-20	117	72
2020-21	109	72
M.E. Engineering		
2019-20	11	11
2020-21	04	04
M.B.A.		
2019-20	58	12
2020-21	67	12

11. Admission Procedure

> **Mentioned the admission test being followed, name and address of the Test Agency/State Admission Authorities and its URL (website**

- Admissions to B.E./M.E./M.B.A Courses of the institute are done as per the norms and guidelines of State Comman Entarance Test Cell, Maharashtra State through Centralized Admission Process (CAP). 80% Seats are filled through Centralize Admission Process however 20% Institute Level Seats are filled as per the guidelines given by State Comman Entarance Test Cell, Maharashtra State, Mumbai. Moreover Over and above PMSSS, Central Govt. Nominee, Tuition Fee Waiver Scheme Seats (TFWS - 5% of Sanctioned Intake per branch) & Economically Weaker Scheme (EWS – 10 % Sanctione Intake per branch) are available at our Institute.

  All these admission are strictly on merit score issued by DTE Mumbai and accordingly to Quota for different reservation category as decided by DTE Mumbai.

- **Entrance test / admission criteria**

  The procedure adopted for the Centralized Admission Process- candidates seeking admission to Engineering/Technology courses are required to appear for MHT-CET / JEE Mains conducted by the Competent Authority.

> **Calendar for admission against Manaement / Vacant seats :**

SN	Activity	Date & Timings	
		B.E.	**M.B.A.**
1	Last date of Submission of Application Form.	4th July 18	8th July 18
2	Display of Provisional Merit List on College Notice Board & Submission of Grievances if any	4th July 18	8th July 18
3	***Confirmation of Admission by Counseling Round.***	5th July 18	9th July 18

12. Criteria and Weightages for Admission

- Describe each critewrion with its respective weightages i.e. Admission Test, marks in qualifying examination etc.
- Mention the minimum level of acceptance, if any
- Mention the cut-off levels of percentages and percent ilescore of the candidates in the admission test for the last three years.
- Display marks scored in Test etc. and in aggregate for all candidates who were admitted.

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)

14. Results of Admission under Management seats / vacant seats

- Composition of selection team for admission under Management Quota with the brief profile of members (This information be made available in the public domain after the admission process is over)
- Score of the individual candidate admitted arranged in order or merit
- List of candidate who have been offered admission
- Waiting list of the candidate in order of merit to be operative from the last date of joining of the first lis candidate
- List of the candidate who jonnie within the date, vacancy position in each category before operation of waiting list.

15. Information of Infrastructure and Other Resources Available.

Number of Class Rooms and size of each	:	27	2013 Sq.M.
Number of Tutorial rooms and size of each	:	15	680 Sq.M.
Number of Laboratories and size of each	:	50	4283 Sq.M.
Number of Drawing Halls with capacity of each	:	01	173 Sq.M.
Number of Computer Centres with capacity of each	:	02	285 Sq.M.
Central Examination Facility, Number of rooms and capacity of each.	:		
Online examination facility (Number of Nodes, Internet bandwidth, etd.	:		
Barrier Free Built Environment for disable and elderly persons	:		Yes, available
Occupancy Certificate	:		Yes
Fire and Safety Certificate	:		Yes
Hostel Facilities	:		Yes

Library

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

Total No of Titles	:	**29913**
Total No of Books	:	**91007**
Digital Learning Resources	:	**895**

S.No	Subject	Text Books	Ref. Books	No. Of Books	Total No of Titles	Total No of DVDs
1.	Computer Science & Engineering	8547	3560	12107	4420	162
2.	Electronics & Telecommunication Engg	10273	4654	14927	5231	93
3.	Electrical Engineering	6433	3010	9443	3554	26
4.	Mechanical Engineering	5555	2592	8147	3114	51
5.	Information Technology	3026	1776	4802	1711	45
6.	M.B.A.	4839	3019	7858	3525	140
7.	Pure Science	5321	1981	7302	2102	30
8.	Social Science and Arts	2601	1396	3997	1900	80
9.	Humanities	5983	2322	8305	4356	268
10	Back-Volumes	--	8002	8002	--	--
11	Electronics Information Collection	--	4290	4290	--	---
12	Project / Seminar	--	1426	1426	--	---
13	ISI	--	401	401	--	--
	Total	**52578**	**38429**	**91007**	**29913**	**895**

- List of online National / International Journals subscribed

Technical Journals (International)	-	19
Technical Journals (National)	-	49
Non-Technical Journals	-	25
Online E- Journals	-	3013

- E-Library facilities   :   YES

- National Digital Library (NDL) subscription details   :   YES

• **List of Major Equipment / Facilities in each Laboratory/Workshop**

❖ **Department of Electrical Engineering (Electronics and Power)**

SN	Name of the Laboratory	Name of the Major Equipment's in each Laboratory	Facilities in laboratory
1	Electrical Power System	1. Microprocessor based Motor protection scheme. 2. Electromagnetic over current, over voltage, Differential protection schemes. 3. Demonstration panels of Static relays. 4. Automated Distribution Network panel. 5. Oil Circuit Breaker. 6. DSO. 7. 100KV A.C. Testing Set 8. 100KV D.C. Testing Set. 9. 60KV Automatic Oil Testing Kit. 10. Vertical and Horizontal Sphere Gaps. 11. 1-6kV Impulse Tester.	1. Demonstration panels 2. Computing facility with internet. 3. Staff Cabin.
2	Basic Electrical Engineering Lab	1) Single Phase transformer 2) Three Phase Auto Transformer 3) Regulated D.C. Power Supply 4) R-L-C kit 5) Resistive Load Bank	4. Multiple Experiment sets 5. Staff Cabin
3	Electrical Measurement and Control System	Dc, Shunt Motor Generator Set, 3phase Slip Ring Induction Motor, D. C. Position Control, Universal Programmer Autotransformer 3 Phase, 3 Phase Induction Motor,Stroboscope,Earth Tester , LCR Meter, Maxwells Induction Capacitance Bridge,De'Sauty's Bridge	Conduction of practical's of following subjects 1. Control System 2. Electrical Measurement and Instrumentation 3. Analog and digital circuit 4. Electrical Circuit Analysis 5. Power Electronics 6. Staff cabin
	Computer Lab	Computer System	1) Internet 2) Staff Cabin
		Power system software (ETAP-5.5.6 & PSCAD 4.2) 10 Users	
	Project Lab	DSO,CD System, Dual Power Supply, Computer Systems, 3 ph Transformers & Motors, Arduino & R-PI Boards with Sensors. Multi-meters.	UG,PG students carryout their project work
1	PLC Lab	Lenovo computers Intel(R) with CPU @3.9 GHz,4.00 GB RAM,32 bit OS with Colour monitor,mouse and Keybord 20Nos	4 PLC Training kits with 1.Socket Tray 2.Q04UDV CPU 3.HMI Display
2	Power Quality Lab	1. Computer -1 no. 2.Component Development System	1.LCR metrs-5nos 2.Load manager-8nos 3.Oscilloscope-3 nos

| | | 3.Induction motors-4nos
4.Interfacing device /DAQ-9nos
Lenovo think centre Intel core processor ,Intel mother board,24 B DDRB RAM 500 GB,7200RPM HDD,DVDRW,PCI/PCI2 Tower(4X3),Intel HD Graphics, Gigabit Ethernet, USB ,keyboard and optical scrollmouse,18.5" TFT monitor-2nos
5.HP 280 G/Desktop PC MT Businet PC consist of Intel core 13-4160,3.6 GHz 4 GB single nodrle PPR RAM 1600 D/MM 500GB 7200 RPM SATA G 3.5" HP USB std kld USB optical scroll black, No optical 18.5' LED LCD Monitor H.P comp | 4.Printer-2nos
5.Relay testing kit-7 nos |

- **List of Experimental Setup in each Laboratory/Workshop**

❖ **Department of Electrical Engineering (Electronics and Power)**

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	Switchgear & Protection	1. Study of relaying components and control circuit development. 2. Characteristics of inverse time over-current relay. 3. Through fault stability of differential relay. 4. Study of combine over current and earth fault protection scheme of an alternator. 5. Protection of three-phase transformer using differential relay (Merz-price protection scheme). 6. Characteristics of rewireable fuse and miniature circuit breaker. 7. Study of arc extinction phenomenon. 8. Study of under voltage and overvoltage protection of three phase induction motor using static relay. 9. Study of Microprocessor based protection of 3-phase Induction motor. 10. Study of air circuit breaker.	1. Demonstration panels of different protection schemes. 2. Computing facility with internet.
2	High Voltage Engineering	1. To study the breakdown in air using Sphere gap. 2. To study the Corona effect. 3. To study the testing of transformer oil. 4. To study the testing of insulator (Dry and wet test). 5. To study the lightning arrestor. 6. To study the impulse voltage generator. 7. To study the high voltage 100Kv A.C testing set. 8. To study the high voltage 100Kv D.C testing set. 9. To study the testing of high voltage cable.	1. Test setup for the testing of High Voltage equipment. 2. Computing facility with internet.
3	Basic Electrical Engineering Lab	1) To Verify Kirchhoff's current Law and Kirchhoff's voltage Law. 2) To verify Superposition Theorem.	1. Multiple Experiment sets 2. Staff Cabin.

		3) To verify Thevenin's Theorem. 4) To verify vector relationship of current & voltage in the given Single-phase R-L-C Series circuit. 5) To verify vector relationship of current & voltage in the given Single-phase R-L-C Parallel circuit. 6) To verify line & phase relationship of current & voltage between line and phase quantities in a balanced Star connected load. 7) To verify line & phase relationship of current & voltage between line and phase quantities in a balanced Delta connected load. 8) To conduct the load test on Single-phase transformer to obtain the efficiency and regulation. 9) Study of D.C. Machines 10) Study the measuring instruments.	
4	Control System	1. Study Of Potentiometer 2. Study Of A.C Synchoros 3. Determination Of Transfer Function Of D.C Servomotor Amd Its Characteristics 4. Determination Of Transfer Function Of D.C Servomotor Amd Its Characteristics 5. Performance Charateristics Of A D.C Motor Angulsr Position Control System (Manual Control)Determination Of Transfer Function Of A.C Tacho-Generator 6. Determination Of Frequency Response Of Given R-C Network 7. Determination Of Transfer Function Of A.C Tacho-Generator 8. Experiment Study Of The Operating Charactestics Of A Small Stepper Motor And Its Controller	Demonstration model of different experiment are available
5	Power Electronics	1. To Verify The Characteristics Of Scr Andto Find I_h And I_l .Also To Verify The Gate Characteristics Of Scr 2. To Verify Forward And Reverse Characteristics Of Diac 3. To Verify Forward And Reverse Characteristics Of Triac 4. To Study Ujt Relaxation Oscillator Using Ujt 5. Ac Voltage Control Using Triac Diac Combination 6. To Verify The Operation Of Half Controlled And Full Controlled Bridge Converter Of Scrs Using Digital Firing Circuit. 7. To Verify The Operation Of Scr	Demonstration model of different experiment are available

		Commutation Circuits.	
		8. To Design Dc-Dc Buck Converter And Simulate It With Matlab	
6	Electrical Measurement and Instrumentation	1. Measurement Of Active Power In Three Phase Circuit By Two Wattmeter 2. Measurement Of Reactive Power In Three Phase Cercuit By Single Wattmeter 3. Calibration Of Single Phase Wattmetre By Phantom Loading 4. Measurement Of High Resistance By Loss Of Charge Method 5. Measurement Of Low Resistance By Kelvin Double Bridge 6. Calibration Of Single Phase Energy Meter 7. Determination Of Unknown Capacitance By Desautys Bridge 8. Determinatrion Of Self Inductance By Maxwells Inductance-Capacitance Bridge 9. Measurement Of Speed By Using Stroboscope 10. Study Of Phase Sequence Indicator And Megger	Demonstration model of different experiment are available
7	Analog and digital circuit	1. To Plot Frequency Response Of Non Inverting Mode Of Op-Amp Using Ic 741. Also To Determine Band Width And Maximum Gain. 2. To Plot Frequency Response Of Inverting Mode Of Op-Amp Using Ic 741 Also To Determine Band Width And Maximum Gain 3. To Study Op-Amp As An Integraqtor And Differentitor Using Op-Amp Ic 741 For Different Signals 4. Design The Crcuit For Supplying 5v, 50 Ma As A Low Voltage Regulator Using Ic 723. 5. Verification Of Truth Table Of Various Logic Gates Using Variouse Ics 6. To Study And Verify The Operation Sr And M-S J-K Flip-Flop. 7. To Verify The Operation Of Multiplexer Using Ic74153 (Dual 4:1 Mux) 8. To Design And Verify Function Of Decade Counter Using Ic 7490	Demonstration model of different experiment are available

8	Electrical Circuit Analysis	1. To verify the output response of series rc circuit to step input 2. To verify the mesh and node method of analysis on given network 3. To study dot convention and determine mutual inductance 4. To verify thevenins theorem 5. To verify superposition theorem 6. To determine ABCD parameter of a given T network and pi network 7. To verify maximum power transfer theorem 8. To verify reciprocity theorem	Demonstration model of different experiment are available
9	Computer Lab	1. To study important commands in MATLAB software 2. To generate various continuous and discrete signals using MATLAB 3. To verify sampling theorem using MATLAB 4. To find linear convolution of given sequences using MATLAB 5. To compute auto-correlation between two sequences using MATLAB 6. To find impulse response of given system using MATLAB 7. To find DFT and IDFT of given sequence using MATLAB 8. To find FFT of a given sequence using MATLAB 9. To determine power spectrum of a given signal using MATLAB 10. To find frequency response of a given system using MATLAB 11. To design and implement FIR filter for given specifications using MATLAB	
10	Electrical Machine Lab	1. Determine the critical resistance of dc generator from it's o.c.c. 2. Determination of efficiency and regulation of dc compound generator by load test. 3. Speed control of dc shunt motor by armature control method. 4. Speed control of dc shunt motor by field control method. 5. Conversion of three-phase a.c. supply in to two-phase supply by using scott connection. 6. Perform the Swinburne's test on dc machine. 7. Perform the oc & sc test on single phase transformer. 8. To determine the efficiency and losses of a given transformer by Sumpner's test. 9. Conduct the Load test on three phase Induction motor to determine	

| | | its performance characteristics
 10. Plot the Circle diagram for three Phase Induction Motor by conducting the No load & Blocked rotor test on it.
 11. Separation of No Load Losses of a Three Phase Induction Motor.
 12. Speed Control of Three-Phase Slip-ring Induction Motor.
 13. Determine the regulation of a three phase alternator by EMF Method
 14. Determine the regulation of a three phase alternator by MMF Method
 15. To synchronize the three phase alternator with an Infinite Bus bar & perform the load test on it.
 16. Plot the V and inverted V curves of the three phase synchronous motor.
 17. Determination of Xd and Xq by slip test
 18. Determination of Xd' and Xd'' by sudden symmetrical short circuit test
 19. Determination of Xd'' and Xq'' by conducting static test.
 20. Determination of X1,X2 and Xo by conducting direct test. | |

- **List of Major Equipment / Facilities in each Laboratory/Workshop**

❖ **Department of Electronics and Telecommunication Engineering**

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	Communication Engineering Lab	Microwave Test Bench, Gunn Diode and Reflex Klystron Based	RF Circuits and Antenna Facility
		Spectrum Analyzer HP-ESAL1500A (9KHz-1.5GHz)	
		Microstrip Trainer Kit, Amitec MIC-10, (5MHz-2GHz)	
		GSM Evaluation Kit	
		Satellite Communication Trainer	
		Signal Generator HP-8647A (250KHz-1000MHz)	
		Antenna Trainer Unit, Scientech	
		Wave and Propagation Trainer	
		CDMA Direct Sequence Spread Spectrum Trainer	
		Microwave Training System	
		X-band Power Meter, Amitec-Thermocouple Sensor Based	
		Vector Network Analyzer, Rohde &Schwarz, ZVL-13(9KHz-13.6GHz)	
		Keysight's Advanced Design System Software (Complementary One Year License 2021-22)	

		PCs for computation and Lab activities	
2	POWER ELECTRONICS & INSTRUMENTATION LAB	Cathode Ray Oscilloscope	INTERNET PROJECT LABORATORY
		Digital & Analog Multimeters	
		Power Electronics Experimental Kits	
		UJT Tester	
		SCR Tester	
		Universal Motor	
		DC Shunt Motor	
		DC Series Motor	
		Frequency Counter	
		LCR Meters	
		Instrumentation Experimental Kits	
		ARM Processor Kits	
		Digital Meters for measurement of various parameters	
		Solar Kits	
		Fuzzy Logic Kit	
		Heater	
		Battery Charger	
		P4 Computer Machines (3.4 GHz/ 4 GB RAM /1TB HDD) with TFT monitor	
		Analog IC Tester	
		Digital IC Tester	
		Pulse Generator	
		Signal Digitizer	
		VTVM (Vacuum Tube Voltmeter)	
		DSO 60 MHz	
		DSO 100 MHz	
		Instrumentation setup transducer based	
		Digital Tachometer	
		Power Supply analog	
		Power Supply Digital	

		Magnetic Amplifier	
		Various Thyrister Family Module	
		Power scope	
		Microprocessor Kit 8085	
		PCB Machine	
		Motor Control Kit MCK28335	
		Tachometer (Analog + Digital)	
		Squirrel cage motor	
		Voltage Stabilizer 3 phase	
		CD System	
		UPS 5 KVA	
		Panel Meter	
		Function Generator	
		CRO with Function Generator	
		GPS Module	
3	Project Laboratory	P4 Computer Machines (3.4 GHz/ 4 GB RAM /1TB HDD) with TFT monitor	Project Development Facility
		Arduino UNO Module	
		DSO 100Mhz	
		CRO	
		Function Generator	
4	ADC LAB	CRO	Analog and digital Circuit Development Facility
		Dimmer stat	
		IC Tester (Digital)	
		Analog Multimeter	
		Digital Multimeter	
		Power Supply	
		Function Generator	
		Digital Nanometer	
		CD System	
		UPS	

		LCRQ Meter	
		Personal Computer	
		Analog & Digital Trainer	
		ANALOG –DIGITAL CKT. DEVP.PLATFORM	
		Digital portable meter	
5	EDC LAB	Cathode Ray Oscilloscope 20 MHz	Electronic Devices and Circuits Analysis and Design facility
		Digital Storage Oscilloscope 60 MHz	
		Digital Storage Oscilloscope 100 MHz	
		Function Generator	
		Component Development System	
		Power Supply	
		Pulse Generator	
		Digital panel Meter	
		Digital Multimeter	
		EDC Practical Trainer Kit	
		Analog Digital Trainer Kit	
		Personal Computer	
		Frequency Counter	
		Capacitance Box & Inductance Box	
		LCR Meter	
		Transistor Curve Tracer	
6	Microcontroller Lab	Universal Trainer Kit for CPLD/FPGA TK Based	Internet Facility Project Development Facility LCD Projector
		Arbitrary Waveform Generator	
		Virtex II xilinx Board with Xilinx &SysGen Software	
		ARM Processor Titan Board	
		ARM Processor Metis Board	
		ARM Processor Explorer Board	
		ARM Processor Voyager Board	
		GPS Module	

		Demo board from Free scale Micro-controller	
		Xilinx Zybo Board	
		Nexys 3 Spartan Board	
		PMOD DA2 I/F Card	
		PMOD A2D I/F Card	
		PMOD Stepper Motor I/F Card	
		PMOD WiFi I/F Card	
		AVR ATMEGA16 Micro-controller Kits	
		LPC 2148 ARM Processor kit	
		Fingerprint Daughter Card	
		DSKeye Module	
		Cranes MSP Starter Kit	
		DSO 50 MHz	
		UPS 10KVA	
		8051 Micro-controller VEGA kit	
		8051 Compiler/Editor -Tasking Software	
		Proteus Simulation Software	
		P4 HP/Lenevo/HCL Desktop Computer Machine(3.4 GHZ Processor 2/ 4GB RAM,500GB HDD , TFT Monitors)	
		Keil Simulation Software	
		Triton Simulation IDE for ARM Processor Kit (Oasis)	
		Active HDL /Synplify Pro Simulation Software	
		Microwind Simulation Software (VLSI Design)	
		Xilinx &Sysgen Software	
7	DSP LAB	DM 642 EVM Based Board for DSP	Signal Processing and Analysis Facility Project Development Facility
		Interfacing Board for DM642	
		IBM eServer 226	
		TMS 320C6711 DSP Kit	
		ADC THS 1206 EVM	
		TMS 320C6713 DSP Kit	
		DSO 50 MHz	

		P4 HP/Lenevo/HCL Desktop Computer Machine(3.4 GHZ Processor 2/ 4GB RAM,500GB HDD , TFT Monitors)	
		Code Composer Studio Software	
		MATLAB SOFTWARE (R2008b)VER 7.3	
		TMS320c6711 Kit	
		TMS320c6714 Kit	
8	Electronics Workshop Lab	1)CRO L&T Qt.02 2)CRO Scientech Qt.04 3)Function Generator Scientific-Qt.02 4) Function Generator Scientech Qt.01 5)LCR Meter	PC With Internet connection Project Development Facility

- **List of Experimental Setup in each Laboratory/Workshop**

❖ **Department of Electronics and Telecommunication Engineering**

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	Communication Engineering Lab	Expt. List Attached SDL-V	MATLAB Software
		Expt. List Attached UHF Expt. List Attached ECD	Xilinx Software
2	PE LAB (SEM-V)	Expt. List Attached - PE LAB (SEM-V)	Power Electronics Experimental Kits, MOTORS
		Expt. List Attached - INSTRUMENTATION	Instrumentation Experimental Kits
		Expt. List Attached - COMPUTER NETWORK	SWITCH,HUB,PC,CRIMPING TOOL, LAN TESTER ETC.
3	Project Laboratory	Expt. List Attached – Electronic workshop	
4	ADC Lab	Expt. List Attached DSD Expt. List Attached ADE Expt. List Attached SDL-VI	CD System, DSO-100MHz, 60MHz
5	EDC Lab	Expt. List Attached ADE Expt. List Attached AE	CD System, DSO-100Mhz, 60MHz
6	MICROCONTROLLER LAB (SEM –V)	Expt. List Attached	8051 Microcontroller Board Keil Software Proteus Software
7	DSP LAB (SEM –V)	Expt. List Attached	MATLAB Software TMS320c6713 Board
8	PYTHON LAB (SEM-VI)	Expt. List Attached	Python IDLE Software

- **List of Major Equipment / Facilities in each Laboratory/Workshop**
- **List of Experimental Setup in each Laboratory/Workshop**

❖ **Department of Mechanical Engineering**

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	CAD/CAM	AutoDesk Inventor Series Pro-7 (Software)	Solid Modeling & Assembly Modeling
		Solid Edge V 14 (Software)	
		ANSYS Introductory Software V 9.0 (Software)	
		UG NX3 Advanced Designer Bundle (Software)	
		WITNESS 2006 (Rel 2.0) (Software)	
		Computer System - Desktop PC I 3 Lenovo ThinkCentre (Qty 14) (Hardware)	

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	CAD/CAM	Introduction to design process and UG-NX	Modeling & Assembly Software
2		Sketcher environment of UG & Creation of sketches of components	
3		Modeling environment of UG & Creation of models of components	
4		Assembly environment of UG & Creation of assemblies of components	
5		Simulation Languages and Packages	

SUBJECT: ENGINEERING GRAPHICS

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	Drawing Hall	Drawing Boards	Drawing on Drawing Sheets
2		Solid Models	Projection of Solids And Sections
3		Drawing Instruments	Projection of Straight Lines, Planes and Solids
4		Three Dimensional Models	Orthographic and Isometric Projections
5		Cognifront Demo Package	Projection of Straight Lines, Planes and Solids Orthographic and Isometric Projections

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	Drawing Hall	Projection of Straight Line	Demo Models and Drawing Instruments
2		Projection of Plane	Chart, Models of Plane
3		Orthographic Projection	Three Dimensional Models
4		Projection of Solids	Solid Models
5		Isometric Views & Projections	Three Dimensional Models
6		Projection of Section of Solid	Cut Section Solid Models
7		Drafting of Basic 2d Geometrical Shapes Using Cad Software	Cad Software (AUTOCAD)
8		Drafting of Basic 3d Geometrical Shapes Using Cad Software	Cad Software (AUTOCAD)

SUBJECT: MACHINE DRAWING

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	Drawing Hall	Drawing Boards	Drawing on Drawing Sheets
2		Intersection of Solid Models	Projection of Intersection of Solid
3		Drawing Instruments	Projection of Straight Lines, Planes and Solids
4		Development of Solids Models	Projection of Development of Solids
5		Cognifront Demo Package	Projection of Intersection and Development of Solids

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	Drawing Hall	Conversion of Pictorial View into Sectional Orthographic Projection	Cut Section Demo Models and Drawing Instruments
2		Missing Views	Charts
3		Development of Surfaces of Cubes/Prisms/Cylinders/Pyramids /Cones & their Cut Sections	Solid Models
4		Intersections of Solids – Prism & Prism / Cylinder & Cylinder/Cylinder & Prism/Cone & Prism	Solid Models
5		Conventions for Various Materials & Parts	Charts Drawing Sheets
6		Preparation of Detail Drawings of Simple Machine Assembly	Charts
7		Preparation of Assembly Drawing of Simple Machines	Cad Software (AUTOCAD)

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	Energy Conversion / IC Engine Lab	Blower Test Rig	Experimental set up of Blower
		Single Cylinder 4-Stroke Diesel Engine With Brake Test Rig	Experimental set up of single cylinder Diesel engine
		Four Cylinder 4-Stroke Petrol Engine With Hydraulic Dynamometer Test Rig	Experimental set up of 4-stroke 4 cylinder cylinder Petrol engine
		Single Cylinder Petrol Engine With Alternator Test Rig	Experimental set up of single cylinder Petrol engine
		Single Stage Reciprocating Air Compressor Test Rig	Experimental set up of single stage Compressor
		Two Stage Reciprocating Air Compressor Test Rig	Experimental set up of multy stage Compressor
		Four Cylinder 4-Stroke Diesel Engine M & M	Study of Bosch Type Single Plunger Fuel Pump
		Five Gas Exhaust Analyzer	PUC Testing of varies Engine

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	EC II	Trial on Reciprocating Compressor. (Single Stage & Multistage)	Experimental set up of single and multy stage Compressor
2		Trial on Centrifugal Blower	Experimental set up of Blower
3		Study of Gas Turbines With The Help Of Models	models
4		Study of Domestic Refrigerator.	Experimental set up of Refrigerator
5		Study of Room Air Conditioner	Experimental set up of Air Conditioner
6		Study of Photovoltaic System	Experimental set up of solar plate

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	I C Engine	Performance Test on A Single Cylinder Diesel Engine	Experimental set up of single cylinder diesel engine
2		Performance Test on A Single Cylinder Petrol Engine	Experimental set up of single cylinder Petrol engine
3		Evaluation of the Heat Balance for Single Cylinder Diesel Engine	Experimental set up of single cylinder diesel engine
4		Morse Test on Multy-Cylinder Petrol Engine	Experimental set up of single cylinder Petrol engine
5		Study of Bosch Type Single Plunger Fuel Pump	Model of Bosch fuel pump M & M
6		Study of Various Types of Fuel Injectros and Nozzles	On M & M Engine

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	EM Lab.	Differential Axle And Wheel	
		Single Purchase Winch Crab	
		Double Purchase Winch Crab	
		Simple Screw Jack	
		Worm & Worm Wheel	
		Fly Wheel	
		Coil Friction Apparatus	
		Compound Pendulum	
		Inclined Plane Apparatus	
		Simple Jib Crane	
		Simple Supported Beam	
		Universal Force Table	

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	EM Lab.	Verification of Law of Polygon of Forces	Universal Force Table
2		Reactions at the Supports of a Simple Beam	Simply Supported Beam
3		To Determine the Forces in the Members of Jib Crane	Simple Jib crane
4		Friction on Inclined Plane	Inclined Plane Apparatus
5		Coefficient of Coil Friction	Coil Friction Apparatus
6		Single Purchase Winch Crab	Single Purchase Winch Crab
7		Simple Screw Jack	Simple Screw Jack

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	Fluid Power & CFD Lab.	A) Pelton Wheel Turbine	Testing on Pelton Turbine Setup
		B) Francis Turbine	Testing on Francis Turbine Setup
		C) CFD Software Cfx-10 (Software)	Simulation & Analysis of Fluid Flow Problems

List of Experimental Setup in each Laboratory

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	Fluid Power & CFD Lab	Determination of Metacentric Height.	Ship Model
		Verification of Bernoulli's Equation	Bernoulli's Apparatus
		Flow Measurement By Venturimeter.	Venturimeter Apparatus
		Forces of Impact of Jet	Impact of Jet
		Determination of Reynolds Number.	Reynolds Apparatus
		Trial on Pelton Turbine	Pelton Turbine
		Trial on Francis Turbine	Francis Turbine
		Trial on Centrifugal Pump	Centrifugal Pump
		Trial on Reciprocating Pump	Reciprocating Pump
		Trial on Hydraulic Ram	Hydraulic Ram
		Formulation of Problem Concerning the Fluid Flow in the Vessel with CFD (CFX - 10.0) Software	CFD Software CFX-10

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	MOM LAB	a) Computerized Universal Testing Machine ,Model-TUE-C-400 b)Data Acquisition system c) Computer -Lenovo	Tensile Test , Compression Test , Shear Test , Bending Test
		Izod Impact Testing Machine (Capacity -30 Kg)	Toughness Testing
		Spring Apparatus	Deflection of compression &Tensile Spring
		Torsion Test Apparatus	Twist of materials or bars

List of Experimental Setup in each Laboratory

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	MOM LAB	Tension Test on Mild Steel Bar	Computerized Universal Testing machine
		Compression Test on Wooden Block	Computerized Universal Testing machine
		Shear Test on Metal	Computerized Universal Testing machine
		Modulus of Rupture Test	Computerized Universal Testing machine
		Torsion Test on Metals	Torsion Test Apparatus
		Impact Test on Metals	Izod Impact Testing Machine Apparatus
		Deflection of Springs	Spring Apparatus

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	Material Science	Inverted Metallurgical Microscope	Experimental Set Up of Inverted Metallurgical Microscope
		Trinocular Microscope With CCTV Attach Camera	Experimental Set Up of Trinocular Microscope With CCTV Attach Camera
		Double Disc Polishing Machine	Experimental Set Up of Double Disc Polishing Machine
		Rockwell Hardness Testing Machine	Experimental Set Up of Rockwell Hardness

		Abrasive Belt Grinder Machine	Experimental Set Up of Abrasive Belt Grinder
		Muffle Furnace	Experimental Set Up of Muffle Furnace
		Trinoculer Metallurgical Microscope	Experimental Set Up of Trinoculer Metallurgical Microscopewith

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	Material Science	Preparation of specimen for micro-examination	Experimental Set Up of Inverted Metallurgical Microscope
		Study of effect of alloying elements on the properties of steels and H.S.S.	Experimental Set Up of Trinocular Microscope With CCTV attach Camera
		Preparation of specimen for micro-examination	Experimental Set Up of Double Disc Polishing Machine
		Study different heat treatment process for steel (Hardening and Tempering).	Experimental Set Up of Rockwell Hardness
		Preparation of specimen for micro-examination	Experimental Set Up of Abrasive Belt Grinder
		Study different Heat Treatment Process For steel (Annealing and Normalizing).	Experimental Set Up of Muffle Furnace
		Study of metallurgical microscope	Experimental Set Up of Trinoculer Metallurgical Microscope

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
2	MESUREMENT SYSTEMS	Vibration MSMT (Piezoelectric Transducer)	Experimental Set Up of Vibration MSMT
		Speed Mesument Trainer (Magnet Ic Pick Up)	Experimental Set Up of Speed Mesument
		Vacuum Mesmnt Using (Macloyd Gauge)	Experimental Set Up Of Vacuum Mesmnt
		Angular Displacement Measurement	Experimental Set Up Of Angular Displacement
		Flowe Mesument Using Optical Transducer	Experimental Set Up Of Flowe Mesument
		Temperature Measurement By RTD Sensor	EXPERIMENTAL SET UP OF Temperature Measurement

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
2	Measurement Systems	vibration measurement	Experimental Set Up Of Vibration Msmt
		speed measurement by a stroboscope	Experimental Set Up Of Speed Mesument
		vibration measurement	Experimental Set Up Of Vaccum Mesmnt
		performance of capacitance transducer as angular displacement measuring device	Experimental Set Up Of Angular Displacement
		flow measurement	Experimental Set Up Of Flowe Mesument
		temperature measurement	Experimental Set Up Of Temperature Measurement

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
3	Metrology Quality Control	Profile Projector	Experimental Set Up of Profile Projector
		Tool Makers Microscope &Th Ere Accessory	Experimental Set Up of Tool Makers Microscope
		Granite Surface Plate	Experimental Set Up of Granite Surface Plate
		Geartooth Vernier Callper	Experimental Set Up of Geartooth Vernier Callper
		Portable Digital Surface Roughness Tester (Surftest)	Experimental Set Up of Portable Digital Surface Roughness Tester
		Autocollimator	Experimental Set Up of Autocollimator
		Coating Thickness Gauge	Experimental Set Up of Coating Thickness Gauge
		Electronic Comparator	Experimental Set Up of Electronic Comparator
		Pneumatic Comparator	Experimental Set Up of Pneumatic Comparator

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
3	Metrology Quality Control	To Measure The Dimension of A Gear	Experimental Set Up of Profile Projector
		Measurement of Various Angles of A Single Point cutting Tool by Using Tool Makers Microscope.	Experimental Set Up of Tool Makers Microscope
		To Determine Pricision Angular Measurement Using Sine Bar.	Experimental Set Up of Granite Surface Plate
		To Measure The Dimension Of A Gear	Experimental Set Up of Geartooth Vernier Callper
			Experimental Set Up of Portable Digital Surface Roughness Tester
		To Determine Pricision Angular Measurement Using Sine Bar.	Experimental Set Up of Autocollimator
		To Determine Linear Measurement Using Vernier Height Gauge & Micrometer.	Experimental Set Up of Coating Thickness Gauge
		To Determine Linear Measurement Using Vernier Height Gauge & Micrometer.	Experimental Set Up of Electronic Comparator
		To Determine Linear Measurement Using Vernier Height Gauge & Micrometer.	Experimental Set Up of Pneumatic Comparator

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
4	Refrigeration And Air-conditioning	Vapour Compression Refrigeration System	Experimental Set Up of Vapour Compression Refrigeration
		Window Ac Unit 1.5 Ton	Experimental Set Up of Window Ac
		Household Refrigerator	Experimental Set Up of Household Refrigerator
		Water Cooler Unit	Experimental Set Up of Water Cooler Unit
		Leak Testing & Charging Unit	Experimental Set Up of Leak Testing & Charging
		Dezart Cooler Unit	Experimental Set Up of Dezart Cooler

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
4	Refrigeration And Air-conditioning	Vapour Compression Refrigeration System	Experimental Set Up of Vapour Compression Refrigeration
		Study Of Window Ac	Experimental Set Up of Window Ac
		Study Of Household Refrigerator	Experimental Set Up of Household Refrigerator
		Study Of Water Cooler	Experimental Set Up of Water Cooler Unit
		Study Of Leak Testing & Charging	Experimental Set Up of Leak Testing & Charging
		Study Of Dezart Cooler	Experimental Set Up of Dezart Cooler

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
5	Mechatronics	Pneumatic Training Kit	Experimental Set Up of Pneumatic Training
		Pneumatic Rotary Indexing Kit	Experimental Set Up of Pneumatic Rotary Indexing
		X-Y Position Table	Experimental Set Up of X-Y Position
		Sensor Trainer Kit Conveyer Station Kit	Experimental Set Up of Sensor

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
5	Mechatronics	Pneumatic Training Kit	Experimental Set Up of Pneumatic Training
		Pneumatic Rotary Indexing Kit	Experimental Set Up of Pneumatic Rotary Indexing
		X-Y Position Table	Experimental Set Up of X-Y Position
		Sensor Trainer Kit Conveyer Station Kit	Experimental Set Up of Sensor

List of Major Equipment/Facilities in each Laboratory/Workshop

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	TOM LAB	a) Four Channel FFT Analyzer with Computer	Vibration Measurement Demonstration for students
		B) Vibration Analyses Machine	Determination of Inertia of Simple & Compound Pendulum Oil Damping , By filler Suspension
		C) Whirling Speed of Shaft	Experiment on Whirling Speed of Shaft.

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	HT LAB	a)Heat Exchanger	Parallel Flow & Counter Flow Study & Perform
		B) Forced Convection Apparatus	Determination of HT Coefficient for Forced Convection

List of Experimental Setup in each Laboratory

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	TOM LAB	Determination of Inertia of Simple & Compound Pendulum	Vibration Analyses Machine
		Determination of Gyroscopic Couple	Motorized Gyroscope
		Experiment on free & Damped Vibrations of systems with one degree of freedom	Vibration Analyses Machine
		Experiment on Whirling Speed of Shaft	Whirling Speed of Shaft Apparatus
		Experiment on Static & Dynamic Balancing of rotating masses	Balancing Apparatus

List of Experimental Setup in each Laboratory

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
2	HT LAB	Determination of Thermal Conductivity of Metal bar.	Metal bar. Apparatus
		Determination o f Thermal Conductivity of Insulating Powder.	Insulating powder.Apparatus
		Determination of Heat Transfer Co-efficient for forced convection.	Forced convection Apparatus
		Determination of Heat Transfer Co-efficient for Natural Convection.	Natural convection. Apparatus
		Verification of Stefan Boltzman law.	Stefan boltzman Apparatus
		Study of heat Exchanger	Heat Exchanger

Workshop Details

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	Machine Shop	Center Lathe – 23nos Universal Milling Machine – 03 nos Shaping Machine - 03 nos Grinding machines – 05 nos Radial Drilling Machine – 01 nos	Conventional machining facilities
2	Welding Shop	3 phase, Air cooled, Welding Transformer - 01 Gas welding set up – 01 Single Phase Air Cooled Welding Transformer – 01 TIG/MIG Welding – 01 Plasma Welding – 01 Spot welding – 01	Arc/Gas/Spot/Plasma welding
3	Foundry and Smithy Shop	Furnace – 01 Foundry vice - 12	Casting facility
4	Carpentry and pattern making shop	Wood turning lathe – 01	Wood turning
5	Fitting and Sheet metal shop	Bench drilling machine – 01 Bench grinder - 01	Drilling, Grinding, Threading facilities

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SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1		Preparation of given job in fitting shop	Fitting processes facilities
2		Preparation of given job in carpentry shop	Wood working facilities
3		Preparation of given job in welding shop	Arc/Gas/Spot/Plasma welding
4	Workshop (WP)	Preparation of given job in black smithy shop	Forging facility
5		Preparation of given job in tap and die shop	External and internal threading facility
6		Preparation of given job in sheet metal shop	Sheet metal operations facilities

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1		Preparation of mould in foundry shop	Mould preparation facility
2	Workshop (MP)	Preparation of given job in pattern making shop	Wood turning and wood working facilities
3		Preparation of given job in welding shop	Arc/Gas/Spot/Plasma welding

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	Workshop (MT)	Preparation of given job in machine shop	Machining like drilling, shaping, milling, turning, facing etc facilities

- **List of Major Equipment / Facilities in each Laboratory/Workshop**

- **List of Experimental Setup in each Laboratory/Workshop**

❖ **Department of Computer Science and Engineering**

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	DBMS LAB	COMPUTER SYSTEM : LENOVO INTEL CORE I3 PROCESSOR (3G) 3.36 GHZ/INTEL MOTHER BOARD/4GB RAM 3.29 GHZ/500GB HDD 7200 RPM/PCI TOWER (4X3), 18.5" TFT MONITOR, USB KEYBOARD/OPTICAL SCROLL MOUSE - 37 Number UPS 5 KVA -02	Internet Lease Line 200 MBPS Antivirus

SN	Name of the Laboratory	Name of the Experiments		Facilities in laboratory
		B.E. III SEM.		
		SN	MASTER LIST OF EXPERIMENT	
1	C-Skill-Lab-I (3KS09)	1	Write python program to store data in list and print list of numbers using range and for loop.	Python
		2	Write a program to create, append, and remove lists in python.	
		3	Write a program to demonstrate working with tuples in python.	
		4	Write a program to create, concatenate and print a string and accessing sub-string from a given string.	
		5	Write a python program to find largest of three numbers.	

		6	Write python program in which a function(with single string parameter) is defined and calling that function prints the string parameters given to function.	
		7	Write a python program to find factorial of a number using Recursion.	
		8	Write python program in which a class is define, then create object of that class and call simple print function define in class.	
		9	Write a program that inputs a text file. The program should print all of the unique words in the file in alphabetical order.	
		10	Write a program to Create data frame from .csv files and operations on it.	
		11	Write a program for Plotting various graphs using Python.	
		12	Developing web applications using Django framework or Flask.	
		13	Write a program to create, concatenate and print a string and accessing sub-string from a given string.	
		B.E. V SEM		
		SN	MASTER LIST OF EXPERIMENT	
2	Database Management Systems Lab (5KS06)	1	Implementation of DDL commands of SQL with suitable examples a) Create table b) Alter table c) Drop Table	Oracel 11g
		2	Implementation of DML commands of SQL with suitable examples a) Insert b) Update c) Delete	
		3	Implementation of different types of function with suitable examples a) Number function b) Aggregate Function c)Character Function d) Conversion Function e) Date Function	
		4	Implementation of different types of operators in SQL a) Arithmetic Operators b) Logical Operators c) Comparison Operator d) Special Operator e) Set Operation	
		5	Implementation of different types of Joins a) Inner Join b) Outer Join c) Natural Join etc..	

		6	Study and Implementation of a) Group By & having clause b) Order by clause c) Indexing	
		7	Study & Implementation of a) Sub queries b) Views	
		8	Study & Implementation of different types of constraints.	
		9	Study & Implementation of Database Backup & Recovery commands. Study & Implementation of Rollback, Commit, Savepoint.	
		10	a) Creating Database /Table Space b) Managing Users: Create User, Delete User c) Managing roles:-Grant, Revoke.	
		11	Study & Implementation of PL/SQL.	
		12	Java –Mysql Database Connectivity	
		B.E. V SEM		
		SN	MASTER LIST OF EXPERIMENT	
3	ET-I-Data Science and Statistics Lab (5KS08)	1	Write simple python code which will read image and out of image read face from it and save it and show it.	Python ,R
		2	Write python code to read " Movie dataset" and try to apply preprocessing steps like sampling, check null value etc.	
		3	Implement model in python for Boston Housing Data in which try to analyze correlation between crime and price from data set and draw heatmap and scatter chart.	
		4	Implement model of Multiple Linear Regression in Python for King County Housing Data	
		5	Write python code to implement Student Performance Data Set (competition form) Regression training dataset	
		6	Implement Model for cancer dataset to to classify the type of cancer. using SVM	
		7	Implement Lasso Regression Model using python for housing dataset	
		8	Implement decision tree algorithm in python for Pima Indian Diabetes dataset	
		B.E. V SEM		
		SN	MASTER LIST OF EXPERIMENT	
4	ET-I - Introduction	1	Study of cyber-security , Cryptographic Techniques and	JAVA, PYTHON

	to Cyber Security (5KS08)		various attacks	
		2	Write a simple program (any language) to display Hostname, IP address of your machine and fetching an IP address of any given URL	
		3	Implement the following Substitution & Transposition Techniques concepts: a) Caesar Cipher b)Rail fence row Column Transformation	
		4	Implement a digital signature algorithm	
		5	To implement Simple DES or AES	
		6	Implement MD5 in Java/python	
		7	Study of the features of firewall in providing network security and to set Firewall Security in windows	
		8	Study of Intrusion Detection system with its latest types and tools, Response, Scanning, Threat Management.	

			B.E. VII SEM	
		SN	MASTER LIST OF EXPERIMENT	
5	Digital Signal Processing (7KS06)	1	Write a program to generate Digital Signal.	MATLAB
		2	Write a program to evaluate convolution between given frequency.	
		3	Write a program to plot impulse response of given difference equation.	
		4	Write a MATLAB program for auto-correlations and cross-correlation.	
		5	Write a program to obtain original sequence x(n) by IDFT for k-point DFT.	
		6	Write a program to find (A) Z Transform of given sequence x(n) and (B) Inverse Z Transform of x(z)	
		7	To study TSM 320C6711 DSP processor.	
		8	Write a matlab program for conversion of analog filter to digital filter using matched z transform.	

			B.E. IV SEM	
		SN	MASTER LIST OF EXPERIMENT	
6	Microprocess or & Assembly Lang. Prog. Lab (4KS08)	1	Installation and Introduction of TASM Assembler.	MASM, TASM
		2	Write a program for addition of two 8-bits numbers and two 16-bits numbers.	
		3	Write a program for subtraction of two 8-bits numbers and two 16-bits numbers.	
		4	Write a program for multiplication of two 8-bits numbers.	

		5	Write a program for division of two 8-bits numbers.	
		6	**Write a program to demonstrate Logical Group Instructions.**	
		7	Write a program to Transfer block of data from one location to another.	
		8	Write an assembly language program to arrange the given numbers in descending order.	
		9	Write a program to find Factorial of a number using loop instruction.	
		10	Write a program to find cube of a given number using Subroutine.	
		11	Write a program to find square of a given number using Subroutine.	
		12	Write a Program for sorting an array for 8086 microprocessor.	
			B.E. IV SEM	
		SN	MASTER LIST OF EXPERIMENT	
7	C-Skill-Lab-II (4KS09)	1	Introduction to PHP and configure it to work with Apache Web Server.	VS CODE, XAM, ARDINO, PHP, Raspberry Pi / Ardino
		2	Design web pages for your college containing a description of the courses, departments, faculties, library etc., use href, list tags.	
		3	Create your class timetable using table tag.	
		4	Create user Student feedback form (use textbox, text area , checkbox, radio button, select box etc.)	
		5	Develop JavaScript to display today's date.	
		6	Write a JavaScript to design simple calculator to perform the following operations: sum, product, difference and quotient.	
		7	Write a PHP program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings	

		8	Write a PHP program to display a digital clock which displays the current time of the server.	
		9	Write the PHP programs to do the following: a. Implement simple calculator operations. b. Find the transpose of a matrix.	
		10	Write a PHP program to sort the student records which are stored in the database using selection sort.	
		11	Study and configure Raspberry Pi/Arduino	
		12	WAP for LED blink using Raspberry Pi/Arduino	
		13	Study and Implement ZigBee Protocol Using Raspberry Pi/ Arduino	
		14	Study and demonstrate the use of Digital Sensor using Raspberry Pi/ Arduino	
		B.E. VI SEM		
		SN	MASTER LIST OF EXPERIMENT	
8	ET-II-Cryptography Lab (6KS08)	1	Implementation of a VeraCrypt Container using VeraCrypt Software tool	VeraCrypt Software tool
		2	Study experiment on creating the partition or device (VeraCrypt-Encrypted Partition/Device) using VeraCrypt Software tool	
		3	Study experiment to find web application firewall features of modsecurity, the product of Trustwave Inc.	
		4	Installation and configuration of Add-on extensions for browsers like Mozilla Firefox, Google chrome (e.g. AdGuard AsBlocker, uBlock Origin, Privacy Badger etc, implementation of any 3).	
		5	Understanding and using of "Developer Tools" provided by various browsers like like Mozilla Firefox, Google chrome in designing secure web sites.	
		6	Creating and tiny URLs using various tools like 1) Tiny URL, 2) CheckShorUrl, 3) trib.al etc	

		7	Installation and configuration of "SPAMfighter" spam filter on your system for servers and clients.	
		8	Installation and configuration of "SPAMBully" spam blocker on your system for your PC.	
		9	Mini Project	
		10	Mini Project	
	B.E. VI SEM			
		SN	MASTER LIST OF EXPERIMENT	
9	ET-II-BIG Data Analytics (6KS08)	1	*STUDY OF HADOOP ARCHITECTURE INCLUDING HDFS,YARN AND MAPREDUCE*	Java, Spark, Oracle, R-Studio / Mongodb
		2	STUDY OF R PROGRAMMING	
		3	WAP FOR IMPLEMENT LINEAR AND LOGISTIC REGRESSION	
		4	WAP TO IMPLEMENT SVM / DECISION TREE CLASSIFICATION TECHNIQUES.	
		5	WAP TO IMPLEMENT CLUSTERING TECHNIQUES	
		6	WAP TO VISUALIZE DATA USING ANY PLOTTING FRAMEWORK	
		7	IMPLEMENT AN APPLICATION THAT STORES BIG DATA IN HBASE /MONGODB / PIG USING HADOOP / R.	
		8	STUDY AND IMPLEMENT OF PYCHARM	
	B.E. VI SEM			
		SN	MASTER LIST OF EXPERIMENT	
10	C-Skill-Lab-IV (6KS09)	1	Study and implement Linux commands installation of java and Tomcat Server	Java, Tomcat Server, Jenkins
		2	Study practical on software development life cycle, DevOps life cycle & its Stages	
		3	Study practical on DevOps Tools (Docker, Jenkins, Git, Jira, copado)	
		4	Study practical on DevOps Pipeline (CI /CD) using any tool	
		5	Study Practical on AWS , Microsoft Azure and Google Cloud for DevOps	
		6	Install , Setup and Configure of Jenkins and also demonstrate Command line executions using this tool	
		7	Download and install available plugins(By different ways) and management of installed plugins with Jenkins	

		8	Demonstrate how to create new users, configure newly created users , create new roles, assign roles to newly created users and control user access on projects with Jenkins	
		9	Demonstrate Jenkins node management	
		10	Create your first CI/CD pipeline with Jenkins and GitHub	
		11	Demonstrate Jenkins server maintenance , clean up the operation and changing home directory	
		12	Demonstrate how to set-up Continuous Integration With Git and Jenkins	
		B.E. VIII		
		SN	MASTER LIST OF EXPERIMENT	
11	Artificial Intelligence Lab (8KS05	1	To Study Prolog programming language.	PROLOG
		2	Write a program to implement Tower of Hanoi Problem using Recursion.	
		3	Write a program to solve water jug problem (Solve the problem on Page no 31 in AI by Rich & Knight)	
		4	Discuss the Monkey Banana Problem and Write a program to solve it.	
		5	Write a program to implement Best First Search Algorithm.	
		6	Write a program to find a file and its position.	
		7	Write a program to log into the system without recursion.	
		8	Write a program to unable text string entered from the keyboard to be appended to the content of a file.	

2) OOPs LAB:-

SN	Name of the Laboratory	Name of the Major Equipments in each Laboratory	Facilities in laboratory
1	OOP/SS LAB	COMPUTER SYSTEM QTY- 39	Internet facility.
2		10 KVA UPS Qty-01	

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	2R-DCN	1) To study various LAN topologies and their creation using network devices, cables and computers. . 2) To connect the computers in Local Area Network. 3) Familiarization with Networking Components and devices: LAN Adapters, Hubs, Switches, Routers etc. 4)Write a program of bit stuffing used by Data Link Layer 5)Write a program to implement CRC(Cyclic Redundancy Check) 6)Write a program to implement Checksum 7)Write a program to implement Sliding window 8) Configure Internet connection and use IP-Config, PING / Tracer and Net stat utilities to debug the network issues. 9) Configuration of TCP/IP Protocols in Windows and Linux. 10) Transfer files between systems in LAN using FTP Configuration, install Print server in a LAN and share the printer in a network. 11)Write a C Program to determine if the IP Address is in Class A, B, C, D, or E 12) Write a C Program to translate Dotted Decimal IP Address into 32 Bit Address.	
2	2R-OS	1)To study Linux Operating System along with its installation. 2)To Study and Execute basic file commands and process related open source Ubuntu commands a)Commands to view all executing, block and suspended process. b)Command to check and change the priority of process CPU utilization for executing processes. c)Commands to check for child process, sub-processes, process tree, abort & end process and all other basics commands related to processes 3)Write a program for multithreading using C. 4)To simulate First Come First Serve & Shortest Job First process scheduling algorithm 5)To simulate Shortest Job First process scheduling algorithm 6)To simulate Preemptive Shortest Job First process scheduling algorithm	

		7)To implement Round Robin Process scheduling Algorithm 8)To implement Priority Based Process scheduling Algorithm 9)To implement and analyze multi-level queue scheduling algorithm 10)To implement the following file allocation strategies. 11)To simulate paging technique of memory management. 12)To implement the FIFO page replacement policy	
3	3R-SE	1)Identifying the Requirements from Problem Statements Requirements, Characteristics of Requirements, Categorization of Requirements, Functional Requirements, Identifying Functional Requirements 2) Estimation of Project Metrics Project Estimation Techniques, COCOMO, Basic COCOMO Model, Intermediate COCOMO Model, Complete COCOMO Model, Advantages of COCOMO, Drawbacks of COCOMO, Halstead's Complexity Metrics 3) Modeling UML Use Case Diagrams and Capturing Use Case Scenarios Use case diagrams, Actor, Use Case, Subject, Graphical Representation, Association between Actors and Use Cases, Use Case Relationships, Include Relationship, Extend Relationship, Generalization Relationship, Identifying Actors, Identifying Use cases, Guidelines for drawing Use Case diagrams 4)E-R Modeling from the Problem Statements Entity Relationship Model, Entity Set and Relationship Set, Attributes of Entity, Keys, Weak Entity, Entity Generalization and Specialization, Mapping Cardinalities, ER Diagram, Graphical Notations for ER Diagram, Importance of ER modeling 5) Identifying Domain Classes from the Problem Statements Domain Class, Traditional Techniques for Identification of Classes, Grammatical Approach Using Nouns, Advantages, Disadvantages, Using Generalization, Using Subclasses, Steps to Identify Domain Classes from Problem Statement, Advanced Concepts 6) State chart and Activity Modeling State chart Diagrams, Building Blocks of a State chart Diagram, State, Transition, Action, Guidelines for drawing State chart Diagrams, Activity Diagrams, Components of an Activity	

		Diagram, Activity, Flow, Decision, Merge, Fork, Join, Note, Partition, A Simple Example, Guidelines for drawing an Activity Diagram 7) Modeling UML Class Diagrams and Sequence diagrams Structural and Behavioral aspects, Class diagram, Elements in class diagram, Class, Relationships, Sequence diagram, Elements in sequence diagram, Object, Life-line bar, Messages 8)Modeling Data Flow Diagrams Data Flow Diagram, Graphical notations for Data Flow Diagram, Explanation of Symbols used in DFD, Context diagram and leveling DFD 9)Estimation of Test Coverage Metrics and Structural Complexity Control Flow Graph, Terminologies, McCabe's Cyclomatic Complexity, Computing Cyclomatic Complexity, Optimum Value of Cyclomatic Complexity, Merits, Demerits 10)Designing Test Suites Software Testing, Standards for Software Test Documentation, Testing Frameworks, Need for Software Testing, Test Cases and Test Suite, Types of Software Testing, Unit Testing, Integration Testing, System Testing, Example, Some Remarks.	
4	3R-DAA	1)To study various algorithm designing strategies. 2) Write a program to sort numbers using bubble sort technique and analyze its time complexity. 3) Write a program to implement merge sort using divide and conquer technique and analyze its time complexity. 4) Write a program to implement knapsack problem using greedy method. 5) Write a program to implement Prim's algorithm using greedy method. 6) Write a program to implement traveling salesman problem using dynamic programming. 7) Write a program to implement search and traversal using backtracking approach. 8) To study polynomial time and non-polynomial time algorithms.	

5	2R- DS	1) Write a program to find out largest number from the array and also find it's location.	
		2) Write a program to traverse an array and find the sum and average of data elements from an array.	
		3) Write a Program to	
		a) Insert an element in an array.	
		b) Delete an element from an array.	
		4) To study and execute the Binary Search method.	
		5) To study and execute Bubble sort method.	
		6) To study and implement various operations on singly linked list	
		a) Traversing the linked list.	
		b) Insert a node at the front of the linked list.	
		c) Delete a last node of the linked list.	
		d) Searching a Linked list.	
		7) To study and implement following operations on the doubly linked list.	
		a) Insert a node at the front of the linked list.	
		b) Insert a node at the end of the linked list.	
		c) Delete a last node of the linked list.	
		d) Delete a node before specified position.	
		8) To study and implement following operations on the circular linked list.	
		a) Insert a node at the end of the linked list.	
		b) Insert a node before specified position.	
		c) Delete a first node of the linked list.	
		d) Delete a node after specified position.	
		9) Understand the stack structure and execute the push, pop operation on it.	
		10) Understand the Queue structure and execute the insertion, deletion operation on it.	
		11) Understand the Tree structure and implement the Pre-order, In-order, post-order traversing operations on it.	
		12) Write a Program to implement the concept of BFS algorithm.	

| 6 | 2R-OOP | 1)Write a Java program to check whether the given integer number is odd or even.
2)Write a Java program to read a number and check whether that number is prime or not (Use concept of type casting & conversion).
3)Write a Java program to demonstrate the declaration and scope of local, instance and static variables.
4)Write a Java program to demonstrate the concept of method overloading.
5)Write a Java program to sort list of integer number in an array.
6)Write a Java program to demonstrate the concept of method overriding.
7)Write a Java program to implement multiple inheritance using Interface.
8)Write a Java program to demonstrate the use of Exception handling.
9)Write a Java program to write a character, string, & array of characters into a file. (Use File Write class)
10)Write a Java program to demonstrate the use of Applet. | |
| 7 | 3R-CD | [1] Design a lexical analyzer for given language and the lexical analyzer should ignore redundant spaces, tabs and new lines. It should also ignore comments. Although the syntax specification states that identifiers can be arbitrarily long, you may restrict the length to some reasonable value. Simulate the same in C language.
[2] Write a C program to identify whether a given line is a comment or not.
[3] Implement a C program to check parenthesis of regular expression is balanced or not.
[4] Implement a C program to construct NFA from regular expression.
[5] Implement a C program to simulate Deterministic Finite Automation (DFA) for a string which ending with 'a', 'a*b+', 'abb'.
[6] Write a C program to construct of DFA from NFA.
[7] Implement a Lex program to verify the parenthesis of a given expression is balanced.
[8] Implement a Lex program to recognize the token like Digit, Identifier & Delimiter.
[9] Implement the Lexical Analyzer using JLex, flex or other lexical analyzer generating tools. | |

		[10] Implement a Lex program to a valid arithmetic expression and to recognize the identifier and operators present. [11] Implement a Lex program to count words, characters, lines, vowels and consonants from given input. [12] Implement a Lex program to check given number is positive negative or zero. [13] Implement a Lex program to generate string which is ending with zeros. [14] Implement LEX and Yacc tool to implement desk calculator. [15] Write a C program for constructing of SLR parsing. [16] Write a C program for constructing of LL (1) parsing. [17] Write a C program for constructing of LALR parsing. [18] Write a C program for constructing recursive descent parsing. [19] Write a C program to implement Program semantic rules to calculate the expression that takes an expression with digits, + and * and computes the value. [20] Write a C program for Tokenizing the file which reads a source code in C/C++ from an unformatted file and extract various types of tokens from it [21] Write functions to find FIRST and FOLLOW of all the variables / given grammar. [22] Implement a Shift Reduce Parser for the following productions. E → E+E / E*E / a / b [23] Implement a symbol table containing functions create(), modify(), search(), display() and delete(). [24] Implement three address Code for the input a=b*c. [25] Implement Recursive Decent Parser for the given productions. [26] Convert the BNF rules into Yacc form and write code to generate Abstract Syntax Tree. [27] Write a C program to generate machine code from abstract syntax tree generated by the parser. [28] Write a Lex program to find out total number of vowels, and consonants from the given input string. [29] Implementation of Finite State machines DFA, NFAs . [30] Computation of Leading & Trailing Sets.	
8	3R-C SKILL III	1)Introduction to the Node.js and its installation to print Hello World	

		2)To study built-in modules and implement the user defined built-in modules in the Node.js 3)To study HTTP module and implement Node.js as a web server 4)To convert the output "Hello World!" into upper-case letters by installing the "upper-case"package of NPM 5)To study event handling in Node.js and demonstrate it using event module and Event Emitter object 6)To install MySQL and its driver and create connection with it using Node.js. 7)To demonstrate the creation database and table in MySQL using Node.js 8)To demonstrate the insertion of single and multiple records in the MySQL using "INSERT"statement and Node.js 9)To demonstrate the display the records based on condition from the MySQL database using"WHERE" statement using Node.js 10)To demonstrate deletion of records from database using "DELETE" statement and Node.js 11)To demonstrate updating existing records in a table by using the "UPDATE" statement andNode.js 12)To demonstrate combining rows from two or more tables, based on a related column betweenthem, by using a JOIN statement using Node.js 13)Create an Email sender app using Node.js 14)Create a User model covering Registration, Email verification(send an email), login (with remember me, display user details and allow to save/update user details(DOB, Location, Hobbies etc or anything) 15)To study the different types of String Functions in JavaScript. 16)To demonstrate working of basic core java program and create basic java programs using proper syntax.	
9	4R-DAA	1)To study various algorithm designing strategies. 2) Write a program to sort numbers using bubble sort technique and analyze its time complexity. 3) Write a program to implement merge sort using divide and conquer technique and analyze its time complexity. 4) Write a program to implement knapsack problem using greedy method. 5) Write a program to implement	

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
		Prim's algorithm using greedy method. 6) Write a program to implement traveling salesman problem using dynamic programming. 7) Write a program to implement search and traversal using backtracking approach. 8) To study polynomial time and non-polynomial time algorithms.	
10	4R-OOAD	1)Study of modeling concepts and UML structure. 2) Draw one or more use case dig. for capturing and representing requirement of system. 3) Draw class diagram to identify and describe concepts. 4) Draw sequence diagram with advanced notation. 5) Draw one or more collaboration diagram. 6) Draw activity diagram to display business flow. 7) Draw state machine to model the behavior of single object. 8) Draw component diagram assume build youn system using component. 9) Draw deployment diagram of model runtime of youn system.	

3) Beginner's LAB:-

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	Beginners Laboratory (Computer Programming Lab)	1. To Study of Fundamental of the Computer and Computing Concepts. 2. a.Write a program to find simple interest. b.Write a program to find area and circumference of circle. 3. Write a program to find the largest of three numbers using conditional operator. 4. Write a C program for calculator design using Switch-Case statement. 5. Write a C program to display different patterns using looping statement. 6. Write a C program to input n elements in Array x and find greater number in Array x. 7. Write a program to perform various operations on string. 8. Write a program to create the array of structure of employees (5) having following fields i)ID Number ii) Name iii) Salary iv) Department v) City After this display information of all employees on the screen.	

| | | 9. Write a program to swap two numbers using pointers to understand the pass by reference methos of function call.
10. Write a program to copy contents of one file to another file. | |

- **List of Major Equipment / Facilities in each Laboratory/Workshop**

- **List of Experimental Setup in each Laboratory/Workshop**

❖ **Department of Information Technology**

SN	Name of the Laboratory	Name of the Major Equipment's in each Laboratory	Facilities in Laboratory
01		25 LENOVE PC	
02		5 KVA TRANSTECH UPS	
03		GEFORCE GTX TITAN X(PG60) GENERIC – 02	A) Fire Extinguisher
04		TESLA ACTIVE CHANNEL , 12 GB- NVIDIA (01)	B) Reference Books
05	DMC Lab	MICROPROCESSOR KITS	
06		DICA KITS	C) Practical Lab Manuals
07		ARM 7 OASIS TITAN BOARDS	
08		ARM 7 OASIS METIS BOARDS	D) All required Software
09		OASIS JTAG DEBUGGERS	
10		ANSHUMAN STUDY CARDS	
11		CILING MOUNTING KITS	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1		Assembling and executing the various Debug commands.	
2		Write a program in TASM to manipulate the two given operands with general arithmetic operators +, - and store the result at the given location.	
3	DMC – ALP Lab / 2N	Write a program in TASM to manipulate the two given operands with general arithmetic operators *, / and store the result at the given location.	TASM – Microprocessor Kit
4		Write a program in TASM to store given a number XY i.e. 0X in BX register and 0Y in CX register.	
5		Write a program in TASM to transfer a block of data from one memory location to other.	
6		Write a program in TASM to find the factorial of a given number using Macro.	
7		Write a procedure in TASM named SQUARE that square the content of BL	

		& places the result in BX .(Assume that the procedure is called from main program which is located in the same segment.	
8		To execute various commands on 8086 Microprocessor Trainer kit.	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1		Understanding and use of HTML & CSS Programming	
2		Understanding and use of JavaScript	
3		Understanding and use of Type Script	
4		Introduction to Angular.	
5	DMC – C-Skill Lab / 3N	Angular Environment Set up	Open Source S/W Node JS
6		Creating Angular Project and basic introduction about project structure/directory.	
7		Understanding Components and how to create components in Angular	
8		Understanding of data binding in Angular component and view files.	
9		Understanding and use of different types of Angular directives.	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1		Write a matlab program to generate discrete time signal.	
2		Write a matlab program to evaluate the Convolution between given sequence.	
3		Write a matlab program to plot the impulse response of the given difference equation.	
4		(a) Write a matlab program for auto-correlation. (b) Write a matlab program for cross-correlation.	
5	DMC – DSP Lab / 4N	Write program in matlab to obtain original sequence x(n) by IDFT for given k-point DFT.	MATLAB
6		Write a matlab program to evaluate liner convolution and also compute the error between liner convolution by DTF & direct liner convolution.	
7		Write a matlab program to find (a) Z Transform of given sequence x(n) (b) Inverse Z Transform of X(Z)	
8		Write a matlab program for calculating the length of FIR filter.	
9		Write a matlab program for conversion of Analog filter to Digital Filter using Matched Z-Transformation Method.	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1		Study of ports and different registers of ARM processor. (Two ports and IOPIN, IOSET, IODIR, IOCLR registers)	
2		Study of Real Time Embedded System. (What is Embedded System, Application, Classification)	
3		a) Write a program to create single task to operate LED's. b) Write a program to create single task to operate 7-segment LED. c) Write a program to create single task to operate HyperTerminal.	
4	DMC – RTES Lab / 4N	Write a program to create three different tasks and context switching between these three tasks using different peripherals. (In theory write what is task, multitasking & context switching)	TITAN BOARDS
5		Write a program to display messages on hyper terminal without semaphore. (In theory write what are the problems identified without semaphore)	
6		Write a program to display messages on hyper terminal with semaphore. (In theory write what is mean by semaphore and its advantages)	
7		Write a program for creation of Mailbox and posting of message from one task and receiving the message in another task.(What is Mailbox and its use)	
8		Write a program to detect whether specific key is pressed or not.	
SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1		Write a C++ program using scope resolution operator.	
2		Write a C++ program Program to print full pyramid using *.	
3		Write a program to demonstrate the use of classes and object.	
4	DMC – OOP Lab / 2U2	Write a C++ program using function overloading and constructor overloading.	Turbo C++
5		Write a C++ program using Friend function.	
6		Write a java program to Calculate Circle Area using Java.	
7		Write a java program to find the largest and smallest number in an array using java.	
8		Write a java program to Java Program to Check a Leap Year.	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
9		Write a Java program to demonstrate the use of interface.	
10		Learn SQL to create the database.	
SN	**Name of the Laboratory**	**Name of the Experiments**	**Facilities in Laboratory**
1	DMC – DCN Lab / 2N	To study computer Networks and Its topology.	JAVA (JDK7.1)
2		To study digital –to- digital conversion, analog-to-digital conversion, digital to analog conversion	
3		To Connect the computers in Local Area Network	
4		To Study of basic network command and Network configuration commands.	
5		To Performing an Initial Switch Configuration	
6		To Performing an Initial Router Configuration	
7		To Configuring and Troubleshooting a Switched Network	
8		To Connecting a Switch	
9		To Configuring WEP on a Wireless Router	
10		To Examining WAN Connections	
11		To Interpreting Ping and Traceroute Output	
SN	**Name of the Laboratory**	**Name of the Experiments**	**Facilities in Laboratory**
1	DMC – C-Skill Lab-II / 2N	To perform hardware setup and installation of an operating system for Raspberry Pi.	PYTHON
2		To install Python 3 with required libraries into a Raspberry Pi and write a program to display a message on terminal.	
3		To interface LED with Raspberry Pi and write a program to turn ON LED for 1 sec after every 2 seconds.	
4		To interface Push Button with Raspberry Pi and write a program to turn ON LED when push button is pressed.	
5		To interface LDR (Light Dependent Resistor) with Raspberry Pi and write a program to turn ON LED when dark.	
6		To interface DHT11 sensor with Raspberry Pi and write a program to print temperature and humidity readings.	
7		To interface OLED with Raspberry Pi and write a program to print temperature and humidity readings on it.	
8		To interface Bluetooth with Raspberry Pi and write a program to send sensor data to smartphone using Bluetooth.	
9		To interface Bluetooth with Raspberry	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
		Pi and write a program to turn LED ON/OFF when '1'/'0' is received from smartphone using Bluetooth.	
10		Write a program on Raspberry Pi to upload temperature and humidity data to thingspeak cloud.	
SN	**Name of the Laboratory**	**Name of the Experiments**	**Facilities in Laboratory**
1	DMC – C-SKILL LAB –IV / 3N	MINI PROJECT	Required Software
SN	**Name of the Laboratory**	**Name of the Experiments**	**Facilities in Laboratory**
1		Installation and introduction of UML Diagrams.	

2		Implementation of use case diagrams
		   A) For Library Management System (LMS)
		   B) For ATM
		   C) For Online Shopping System	

3		Implementation of use Class diagrams
		   A) For Library Management System (LMS)
		   B) For ATM
		   C) For Online Shopping System	

4		Implementation of use Interaction Sequence diagrams
		   A) For Library Management System (LMS)
		   B) For ATM
		   C) For Online Shopping System	

5	DMC – C-SKILL LAB – V / 4N	Implementation of use Interaction Collaboration diagrams
		   A) For Library Management System (LMS)
		   B) For ATM
		   C) For Online Shopping System
			Smart Draw (Ver. 10)

6		Implementation of use Activity diagrams
		   A) For Library Management System (LMS)
		   B) For ATM
		   C) For Online Shopping System	

7		Implementation of State Chart diagrams
		   A) For Library Management System (LMS)
		   B) For ATM
		   C) For Online Shopping System	

8		Implementation of use Component diagrams
		   A) For Library Management System (LMS)
		   B) For ATM
		   C) For Online Shopping System	

9		Working with UML Diagrams for mail login system	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1	DMC – Embedded System / 4R	To study brief architectural overview of ARM processor components, different registers , ports with help of block diagram	Titan Board (Hard ward) Titan Board (Soft ward) Oasis Technologies Pvt. Ltd. Pune
2		WAP for ARM to detect whether specific key is pressed or not using embedded C.	
3		Write ARM C code for operating or displaying on LCD display "SSGMCE" text.	
4		Write and execute ARM C code to blink LED, whenever external interrupt is initiated.	
5		Write a program to create a single task (to blink LED's using Embedded C program).	
6		Write an ALP to interface seven segment decoder to 8051 microcontroller, display digit on it (using EdSim 8051 simulator).	
7		Write and execute ARM C code to initiate and generate timer interrupt whenever timer interrupt occurs, blink one LED. Also display on hyper terminal number of timer interrupts.	
8		Interface LCD display to 8051 microcontroller and write an ALP to display alphabet on LCD (using EdSim 8051 simulator).	

WEB-TECHNOLOGY LABORATORY

SN	Name of Lab	Major Equipment in Lab	Facilities in Lab
1	Web- Tech Lab	1. COMPUTER SYSTEMS : HP-280 G1, DESKTOP PC, INTEL I3,3.6 GHZS, 4GB RAM DDR3, 1600DIMM, 500GB HDD, LCD HP COMPAQ MONITOR 18",HP USB KEYBOARD AND MOUSE 2. PRINTER: EPSON 1150 DOT MATRIX PRINTER 3. UPS: NUMERIC ONLINE UPS 10 KVA WITH DC POWER RACK	• ORACLE- OracleXE112_Win32 • JAVA –jdk-7u25-i586-32bit • TURBO C++ • CODE BLOCK • PYTHON-3.7.0 EMBED 32 BIT • XAMPP-win32-7.2.6-0-VC15- installer • VSCodeSetup-ia32-1.26.0- insider • Eclipse

SN	Name of the Laboratory	Name of the Experiments	Facilities in laboratory
1	WT - OOP Lab/2N	01Write a program in C++ to demonstrate the use of Class, Object and memberfunction. 02 Write a program in C++ to demonstrate the order of execution of Constructor and Destructor. 03 Write a program in C++ to demonstrate the concept of Operator Overloading byoverloading binary	TURBO C++

		operator. 04 Write a program in C++ to demonstrate multiple and multilevel inheritance. 05Write a program in C++ to demonstrate pointers to object 06 Write a program in C++ to demonstrate virtual function. 07 Write a program in C++ to demonstrate virtual base class 08 Write a program in C++ to copy content of one file to another file. 09 Write a program in C++ to draw basic shapes using C++ graphics 10 Write a program in C++ to demonstrate function template 11 Write a program in C++ to display the size in file using command line argument.	
2	**WT -** **PHP Lab/3N**	01 To study installation of XAMPP/WAMP 02 To demonstrate use of variables and constants in PHP 03 To demonstrate use of control structures and functions in PHP. 04 To demonstrate arrays, string and objects in PHP 05 To study object oriented techniques in PHP 06 To study file I/O in PHP 07 To study form handling in PHP 08 To study PHP with MySQL 09 To demonstrate use of cookies and sessions 10 To study various CMS with PHP 11 To study various PHP Form 12 To study ECHO and PRINT statement in PHP	XAMPP-win32-7.2.6-0-VC15-installer
3	**WT -** **JAVA Lab/2N**	1. Write a java program to demonstrate following concepts :a) Data declaration b) Data initialization c) Data Conversion 2. Write java program to find: A] Reverse of number. B] Palindrome number. C] Armstrong number. 3. Write a simple applet to draw a circle on every corner of square andrun an applet using both applet viewer and browser. 4. Write java program to demonstrate this keyword. 5. Write a java program to draw a circle every time when the mouse isclicked. 6. Write a java program that import the user defined package andaccess the member variable of classes that contained by package.	JAVA –jdk-7u25-i586-32bit Eclipse

		7. Write java program that randomly generates N integer and storesthem in binary file integer.dat. 8. Write java program to implement the frames in Java.	
4	**WT - DBMS Lab/3N**	01 To study different database systems. 02 02 To study DDL Commands in SQL 03 To study DML Commands in SQL 04 To write basic SQL Select statements 05 To display data from multiple tables 06 To aggregate data using group functions 07 To study different types of subqueries 08 To study different constraints in SQL	ORACLE- OracleXE112_Win32
5	**WT - NAS Lab/4N**	01 Study of Network Security Model. 02 Write a program to demonstrate any substitution stream cipher algorithm. 03 Write a program to demonstrate any transposition stream cipher algorithm. 04 Write a simple program to demonstrate Authentication using Password. 05Write a program to implement Feistal Cipher algorithm for 8 bit data. 06 Study of various block cipher. a)DES Cipher b)AES Cipher. 07 Write a program to implement RSA algorithm by some suitable example 08 Study of Firewall design principles and different types of Firewalls.	TURBO C++
6	**WT - Web Technology Lab. /4N**	01 Case study of http, ftp and telnet protocol and installation of Tomcat Server. 02 Creation of student profiles using html tags. 03 Write a program to create menu using HTML and CSS. 04 Developing a table less web form using internal CSS along with html pages. 05 Client side programming JavaScript for displaying date and comparing two dates 06 Form validation including text field, radio buttons, checkboxes, list box and other controls 07 Writing DTD or XML Schema for the domain specific xml document. 08 Creation of xml document for a specific domain. 09 Write a Servlet that demonstrate the concept of Session with HTTP	CODE BLOCK XAMPP-win32-7.2.6-0-VC15-installer VSCodeSetup-ia32-1.26.0-insider Eclipse

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
		Header and Servlet API.	
		10 Write a program in Java for the creation of simple Web Service.	

7	**WT DSS Lab. Lab/3N**	01 To Study and implement importing of data (csv file) and getting the description of data without actually displaying the complete data.
		02 To study and implement the visualization of data using matplotlib library
		    a. Boxplot
		    b. Histogram
		    c. Density curve
		    d. Scatterplot Line plot
		03 To study and implement the splitting and merging of dataframes
		04 To study and implement Hypothesis testing
		    a. Ttest_ind
		    b. Ttest_rel
		    c. F_oneway
		    d. Chi2_contingency
		05 To study and implement cleaning of data, imputation of missing values, test and train set evaluations
		06 To study and implement MLR
		07 To study and implement BLR
		08 To study and implement Decision tree regressor
		09 To study and implement Decision tree classifier
		10 To study and implement Naïve Bayes Algorithm
			CODE BLOCK PYTHON-3.7.0 EMBED 32 BIT

OS LAB

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1	OS-CN Lab / 2N	To study and verification of standard network topologies i.e. Star, ring, bus etc..	Java(JDK)
2		Write a program to obtain the Information of Host like Address, Name and Its Code	
3		Write a program that obtains the IP address of a Website	
4		Write a program to print all the addresses of www.google.com	
5		Write a Program to access daytime service from server using socket.	
6		Write a Program to find port no running on server.	
7		Write a Program to read the source code of the web page.	
		Write a Program to create socket for sending and receiving data.	
		Study and installation of window and Linux server.	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1	OS – C Skills LAB(Python)/ 2N	To Study Basics of Python	Open Sources S/W
2		To Study Data types in Python	
3		To study Strings in Python	
4		To study the control structures and loops in Python.	
5		To study Functions in Python	
6		To Study File Handling in Python	
7		To study various OOP concepts using Python.	
8		To Study Plotting of Graphs using the various libraries in Python.	
9		To Study Data types in Python	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1	OS – DS Lab / 2N	Write a program to implement Bubble Sort.	Turbo C++ Enviornment
2		Write a program for Binary Search.	
3		Write a program to insert and delete an element from given array.	
4		Write a program to perform various operations on Stack.	
5		Write a program to implement Quick Sort.	
6		Write a program to perform various operations on Queue.	
7		Write a program to implement Tower of Hanoi problem.	
8		Write a program to implement Selection Sort.	
9		Write a program to implement Insertion Sort.	
10		Write a program to implement Merge Sort.	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1	OS – Computer Laboratory - I (UNIX/LINUX / 2N	To Study About Unix Operating System And Installation Of Ubuntu Operating System	Ubantu 16.04
2		The Unix Architecture And Command Usage	
3		To Study Genral Purpose Utility Of Unix	
4		To Study File System Of Unix	
5		To Study Handling Ordanary File	
6		To Study Basic File Atributes	
7		To Study Pico/Vi And Gnu Editor	
8		To Study The Shell	
9		To Study About Shell Script	
10		To Study Essential Administrative Commands	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1	OS – OS LAB / 3N	To study basics of shell programming.	Turbo C++ Enviornment
2		To study the creation of process using fork system call.	
3		To implement FCFS scheduling	

SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
4		To implement SJF scheduling algorithm.	
5		To implement Priority scheduling algorithm.	
6		To implement Round Robin scheduling algorithm.	
7		To implement First Fit algorithm of memory management.	
8		To implement Best Fit algorithm of memory management.	
SN	Name of the Laboratory	Name of the Experiments	Facilities in Laboratory
1	OS – SE Lab / 4N	To study SDLC in software engineering	UML/Smart Draw or Open Source
2		Identifying the Requirements from Problem Statements	
3		To Study Mathematical Modeling of a Problem Statement	
4		To study Software Measurements, Metrics and Indicators.	
5		To study Software Testing.	
6		To study Unit Testing Frameworks and Implement a program for Unit Testing.	
7		Working with case study of Library Management System	
8		Working with case study of Air Reservation System	
9		Working with case study of Twitter	
10		To design a UML model for your Final Year Project using Rational Rose.	

➤ **Computing Facilities**

- Internet Bandwith : 600

- Number and configuration System : I3, 4GB RAM, 500 GB HardDisk

- Total Number of System Connected by LAN : 397

- Total Number of System Connected by WAN : Nil

- Major Software packages available : Yes

- Special purpose facilities available (Conduct of online Meetings/Webnars/Workshops, etc.) : Yes

- Facilities for conduct of classes/courses in online mode (Theory & Practical) : Yes

- Innovation Cell : Yes

- Social Media Cell : Yes

- Compliance of the National Academic Depository (NAD), applicable to PGCM/PGDM Institutions and University Departments. : Yes

List of Facilities available

- Sports Facilities   :   Yes
- Extra-Curicular Activities   :   Yes
- Soft Skill Development Facilities   :   Yes

Teaching Learning Process (Click here)

- Curricula and syllabus for each of the Programmes as approved by the University
- Academic Calendar of the University
- Academic Time Table with the name of the Faculty members handling the Course
- Teaching Load of each Faculty
- Internal Continuous Evaluation System and place
- Students assessment of Faculty, System in place

For each Post Graduate Courses give the following:

- Title of the Course
- Curricula and Syllabi
- Laboratory facilities exclusive to the Post Graduate Course

Title of the Course	Curricula and Syllabi	Laboratory Facilities
M.E. Electrical Power System	**Annexure –I Attached**	1) Power System Software's (MATLAB,PSCAD,ETAP) 2) LabVIEW with CRIO 3) Data Acquisition system (NI & AD Link) 4) Relay Testing Trainer kit 5) Power Quality Analyzer (Fluke Make) 6) d-SPACE Hardware kit 7) Desktop Computers & Laser Jet Printers 8) DSO,MSO 9) CT/PT's 10) Automation Training kit with socket tray. (Q-PLC) & (F-PLC) 11) Experimental Setup for power Quality Events Capturing 12) Experimental Setup for harmonics analysis

Title of the Course	Curricula and Syllabi	Laboratory Facilities
Master of Engineering (Digital Electronics)	Scheme and Syllabus attached	PG Lab 1 PG Lab 2

Title of the Course	Curricula and Syllabi	Laboratory Facilities
Master of Engineering (Advanced Manufacturing & Mechanical System Design)		1. Advanced Manufacturing Processes Lab 2. Computer Aided Design & Engineering Lab 3. Mechatronics in System Design Lab 4. Experimental Stress Analysis Lab

Title of the Course	Curricula and Syllabi	Laboratory Facilities
Master of Computer Engineering	SYLLABUS PRESCRIBED FOR TWO YEAR P.G. DEGREE COURSE IN MASTER OF ENGINEERING (FULL TIME) COMPUTER ENGINEERING SEMESTER: FIRST MECE101:-ADVANCED COMPUTER ARCHITECTURE Unit I: Fundamentals: Technology & Computer usage trends, costs, Performance measurements. Quantitative principles of Computer design. Concepts of memory hierarchy. Instruction set architectures. Memory addressing. Operations in the instruction set. Encoding. Role of compilers. DLX architecture. Unit II: Pipelining: Basic principles & DLX. Various hazards: Pipelines, data, control hazards. Implementation issues. Multicycle operations. Crosscutting issues. Instruction set design and	COMPUTER SYSTEM : LENOVO INTEL CORE I3 PROCESSOR (3G) 3.36 GHZ/INTEL MOTHER BOARD/4GB RAM 3.29 GHZ/500GB HDD 7200 RPM/PCI TOWER (4X3), 18.5" TFT MONITOR, USB KEYBOARD/OPTICAL SCROLL MOUSE -37 Number,UPS 5 KVA - 02, Internet Facility

piplelining. MIPS R4000 pipeline architecture.

Unit III: Advanced pipeline and instruction - level parallelism: concepts & challenges. Data hazards & dynamic scheduling. Dynamic Hardware prediction. Compiler support for ILP. Hardware support for parallelism. Studies of ILP. Power PC620.

Unit IV: Memory- hierarchy design : Basics of caches, Reducing cache miss & hit time. Main memory. Virtual memory. Protections Examples of virtual memory. Issues in the design of memory hierarchies. Alpha APX 21064 Memory hierarchy.

Unit V: Storage Systems: Types of storage devices, Buses & their types, performance I/O performance measures. Reliability, Availability and RAID. Interfacing to an Operating system. Designing an I/O system. Unix file system performance.

Unit VI: Interconnection Networks: Introduction & basic concepts, Computer connection to interconnection network. Interconnection network media. Practical issues. Examples of interconnection networks. Issues for interconnection networks. Internet working. An ATM network of workstations.

Text Book:
Hennessy J.L., Patterson D. A, "Computer Architecture: A Quantitative Approach" 2/e (Harcourt Asia).

Reference Books:
1. Hayes J.P., "Introduction to Computer Architecture", (McGraw Hill)).
2. Tenanbaum A. S., "Computer Organization and Architecture", (PHI).
3. Hwang K., "Advanced Computer Architecture", (McGraw Hill).
4. Hamacher V.C, "Computer Organization", (McGraw Hill).

MECE102   ALGORITHMICS

Unit I: Introduction: Mathematical Notations, Proof techniques, Elementary algorithmics, Efficiency of algorithms : Examples. Asymptomatic notations: conditional asymptomatic notations. Notation with several parameters. Operations on asymptomatic notations.

Unit II: Algorithm analysis: Analysing control structures. Examples. Average-case analysis. Amortized analysis. Solving recurrences. Review of data

structures: Arrays, Stacks, Queries, Records & Pointers, Lists, Graphs, Trees, Associative tables, Heaps.

Unit III: Greedy Algorithms: Some characteristics, Graphs: Minimum spanning trees, shortest paths. The knapsack problem, Scheduling, Divide & Conquer : Introduction – general template, Binary search, sorting, median finding & matrix multiplication. Exponentiation. Cryptograph.

Unit IV: Dynamic programming: Examples, Principle of optimality, Knapsack problem & shortest paths. Chained matrix multiplication, Recursion, Memory function. Graphs: Travarsing trees. Depth-first-search : Directed & undirected graphs : Breadth-first-search. Back tracking. Branch-and-Bound. Minimax principle.

Unit V: Probability algorithms: Introduction, pseudorandom generation. Numerical probabilistic algorithms. Monte Carlo algorithms. Las Vegas algorithms. Parallel algorithms: Basic techniques. Work & efficiency. Examples. Parallel evaluations of expressions. Parallel sorting networks & parallel sorting.

Unit VI: Computational complexity. Introduction. Information-theoretic arguments. Adversary arguments. Linear reduction, Introduction to NP-completeness. Heuristic algorithms. Approximate algorithms. NP-hard approximation problems. Approximation schemes.

Text Book:
G. Brassard, P. Bratley. "Fundamentals of Algorithmics" (PHI).
Reference Books:
1. Horowitz and Sahni, "Fundamentals of Algorithms", (Galgotia).
2. Aho, Ullman, "Analysis & Design of Computer Algorithms", (Addison-Wesley).
3. Donald E. Knuth, "The Art of Computer Programming", Vols. I, II & III, (Addison-Wesley
.
Text Book:
Jim Arlow, Ila Neustadt "UML 2 and the Unified Process: Practical Object- Oriented Analysis and Design" (2/e), Pearson Education.
Reference Books:
1. Booch, Rumbaugh, Jacobson, "The UML Users Manual", Pearson Education.
2. James Rumbaugh, Jacobson, Booch, "UML Reference Manual', Pearson Education.
3. Jacobson et al., 'The Unified Software Development Process', Pearson Education.
4. Bennett, McRobb, Farmer, "Object-Oriented

Systems Analysis & Design Using UML" (TMH)

MECE103 OPERATING SYSTEM DESIGN

Unit-I: Introduction to OS Internals. Overview of OS and Kernel, Linux and classic UNIX kernels. Kernel Source ree. Process management in Linux: Process descriptor and task structure, process creation, implementation of threads, process termination, process scheduling.

Unit-II: Process Scheduling in Linux: The Linux Scheduling Algorithm, Preemption and Context Switching, Real-Time, Scheduler- Related System Calls, System Calls: Handler, Implementation and Context. Interrupts and Interrupt Handlers.

Unit-III: Kernel Synchronization in Linux: Critical Regions and Race Conditions, Locking, Deadlocks, Contention and Scalability. Kernel Synchronization Methods: Spin Locks, Semaphores, Completion Variables. Preemption Disabling.

Unit-IV: Time Management in Linux: Kernel Notion of Time, Hardware Clocks and Timers, The Timer Interrupt Handler, Delaying Execution. Memory Management in Linux: pages, zones, kmalloc, vmalloc, slab layer allocator, statically allocating on the stack, high memory mapping. Per-CPU Allocations.

Unit-V: The Virtual File System in Linux: common file system interface, file abstraction layer, UNIX file system, VFS, dentry object, Super block object, file object, data structure associated with file systems and with a process. The Block I/O Layer and I/O Scheduler in Linux.

Unit-VI: The Process Address Space, the Memory Descriptor, Memory Areas, Page Tables. The Page Cache and Page Write back: Page Cache, Radix Tree, Buffer Cache. Linux Kernel Modules: Building, installing, Loading and managing. Portability in Linux.

Text Book:
Robert Love, "Linux Kernel Development" Pearson Education, (2/e).

Reference Books:
  i. Daniel Bovet, "Understanding the Linux Kernel" O'Reilly Publications 2/e.
  ii. Rubini and J. Corbet . "Linux Device Drivers." O'Reilly and Associates, 2001.

iii. Mosberger & Eranian. "IA-64 Linux Kernel: Design & Implementation" PHI.
iv. McKusick & Neil . "The FreeBSD Operating System" Addison-Wesley, 2004.

MECE104 OBJECT ORIENTED SYSTEMS

Unit I UML structure; UML building blocks; UML common mechanisms; Architecture. Unified Process (UP): UP axioms; UP structure; UP phases. Requirements workflow. Software requirements – Meta model; Requirements workflow detail; Defining requirements; Finding requirements. Use case modeling; Use case specification; equirements tracing; Advanced use case modeling; Actor generalization; Use case generalization.

Unit II The analysis workflow; Analysis artifacts – Meta model; Analysis workflow detail; Analysis model - rules of thumb. Objects and classes; UML object notation UML class notation; Scope; Object construction and destruction. Analysis classes, Relationships; link; association; dependency; Inheritance and polymorphism. Generalization; Class inheritance; Polymorphism; Advanced generalization.

Unit III Analysis packages; Packages and namespaces, Nested packages; Package dependencies; Package generalization; Architectural analysis. Use case realization – elements; Interactions; Lifelines; Messages; Interaction diagrams; Sequence diagrams; combined fragments and operators; Communication diagrams. Advanced use case realization; Interaction occurrences; Continuations.

Unit IV Activity diagrams; Activity semantics; Activity partitions; Action nodes; Control nodes; Object nodes; Pins. Connectors; Interruptible activity regions; Exception handling; Expansion nodes; Sending signals and accepting events; Streaming; Advanced object flow features; Multicast and multireceive; Parameter sets; Interaction overview diagrams.

Unit V The design workflow; Design artifacts metamodel; Design workflow detail; Architectural design. Design classes; Anatomy of a design class; Inheritance; Templates; Nested classes. Refining analysis relationships; Design relationships; Aggregation semantics; Composition

semantics; One-to-one, Many-to-one and One-to-many associations; Collections; Reified relationships; Interfaces: Provided and required interfaces; Interface realization vs. inheritance; Ports. Component-based development; Component stereotypes; Subsystems; Designing with interfaces.

Unit VI   Use case realization-design; Modeling concurrency; Subsystem interactions; Timing diagrams; State machine diagrams; States; Transitions; Events. Advanced state machines; Composite states; Submachine states; Submachine communication. The implementation workflow; Implementation artifacts – meta model; Artifacts. Deployment; Architectural implementation; The deployment diagram; Nodes; Artifacts; Deployment.

Text Book:
Jim Arlow, Ila Neustadt "UML 2 and the Unified Process: Practical Object- Oriented Analysis and Design" (2/e), Pearson Education.

Reference Books:
1. Booch, Rumbaugh, Jacobson, "The UML Users Manual", Pearson Education.
2. James Rumbaugh, Jacobson, Booch, "UML Reference Manual', Pearson Education.
3. Jacobson et al., 'The Unified Software Development Process', Pearson Education.
4. Bennett, McRobb, Farmer, "Object-Oriented Systems Analysis and Design Using UML" (TMH)

MECE105   MOBILE COMPUTING

Unit I: Characteristics, Fundamentals and Infrastructure of cellular system, Satellite system, Network protocol, Ad Hoc and sensor network, Wireless MAN's, LAN's and PAN's. Mobile Ratio Propagation: Types of Radio waves, Propagation mechanism, Free space propagation, Land propagation, Path loss, Slow fading, Fast fading, Doppler effect, Delay spread, Coherence Bandwidth ,Inter symbol and Co-channel Interferences.

Unit II: Cellular Concept: Cell area, Signal strength and cell parameter, Capacity of a cell, Frequency reuse, Cluster, Co-channel Interference, Cell Splitting, Cell sectoring. Channel allocation: Static allocation verses

	Dynamic allocation, fixed channel allocation (FCA), Dynamic channel allocation, Hybrid channel allocation (HCA), Allocation in specialized system structure, System Modeling.
	
	Unit III: Mobile communication systems: Cellular system infrastructure, Registration, Handoff parameter and underlying support Roaming support, Multicasting, Security and privacy, Firewall and system security. Exiting wireless system: AMPS, IS-41, GSM, IMT-2000.
	
	Unit IV: Ad hoc And sensor network: Characteristic of MANET, Applications, Routing, Table – driven routing protocol, Source initiated On-demand Routing, Hybrid protocol, Wireless sensor network, Fixed wireless sensor networks.
	
	Unit V: Wireless MANs, LANs and PAN's: Wireless metropolitan area networks (WMANs), Wireless Local Area networks (WLANs), and Wireless Personal Area networks (WPANs), Recent Advances, Introduction, and Ultra –wideband technology.
	
	Unit VI: Multimedia services requirement, Push – to-talk (PTT) technology, Mobility and resources management for Integrated system, Multicast in Wireless networks, Directional and smart antennas, Design issue in sensor networks, Bluetooth network, Low - power design, XML, Threat and security issue..
	
	Text Book:
	Agrawal D P and Zeng Q A, "Introduction to Wireless and Mobile Systems", (CENGAGE) (2/e).
	Reference Books:
	1. Jochen Schiller, "Mobile Communication", (Pearson Education) Second Edition.
	2. C.K. Toh, "Ad Hoc Mobile Wireless Networks: Protocols & Systms", (Pearson Edu.)
	3. Rajkamal, "Mobile Computing" (Oxford University Press).
	4. George A, "Mobile Ad Hoc Networks: From Wireless LANs to 4G Networks" (TMH).
	   MECE112 Algorithmics-Lab: Based on MECE102 Algorithmics.
	               MECE113
	  Operating System Design Lab: Based on MECE103 Operating System Design.
	Semester Third	

| | MCPE301- Seminar on Proposed Dissertation |
| MCPE302- Project Evaluation Stage-1 |
| Semester Fourth |
| MCPE401-Project Evaluation Stage-2 |
| MCPE402-Seminar on Proposed Dissertation |

MCPE301- Seminar on Proposed Dissertation
MCPE302- Project Evaluation Stage-1
Semester Fourth
MCPE401-Project Evaluation Stage-2
MCPE402-Seminar on Proposed Dissertation

4th Semester notes:
1. Seminar on proposed area is based on extensive literature review and understanding of project.
2. Seminar on stage I evaluation is based on around 50% progress of Dissertation work.
3. Internal Seminar stage II evaluation is based on submitted Dissertation work
4. Only one subject will be offered subjected to maximum number of students from Elective.

➢ **Special Purpose:**
- Software, all design tools in case
- Academic Calendar and framework

16. Enrolment and placement details of students in the last 3 years

SN	Course/Discipline	Enrollment		
		2018-19	2019-20	2020-21
1	Computer Science & Engineering	67	73	69
2	Information Technology	64	66	86
3	Electronics & Telecommunication Engineering	146	138	125
4	Mechanical Engineering	69	74	67
5	Electrical Engineering	78	62	81

SN	Course/Discipline	Yearwise Placement		
		2018-19	2019-20	2020-21
1	Computer Science & Engineering	41	69	64
2	Information Technology	44	45	75
3	Electronics & Telecommunication Engineering	102	54	109
4	Mechanical Engineering	31	39	38
5	Electrical Engineering	63	36	49

17. List of Research Projects / Consultancy Works

Number of Projects carried out, funding agency Grant received	Publications (if any) out of research in last three years out of master's projects	Industry Linkage	List of MoUs with Industries/Organizations
Department of Electrical Engineering (Electronics & Power)			
NIL	NIL	NIL	1. TATA Power Skill development Institute, Shahad Mumbai. 2. CADD Centre Nagpur. 3. **Imperial Society of Innovative Engineers (India).** 4. Adani Dahanu Thermal Power Station. Dahanu. 5. VI Solutions, Bangalore 6. Dynalog India pvt. Ltd,Pune 7. SCR Elektroniks, Mumbai. 8. Mitsubishi Electric India.Pune
Department of Information Technology			
2018-19 Sponsored Project : 05 Consulting Project : 01 (Rs.15,000) 2019-20 Sponsored Project : 11 2020-21 Sponsored Project : 03 Consulting Project : 03 (Rs. 15,522)	2018-19 : Nil 2019-20 : 21 Papers 2020-21 : 06 Papers	**Sponsored Projects offering Companies** 1. Shree Abhay Hoists & Engineering Pvt. Ltd., Shegaon 2. Renuka Technologies Pvt. Ltd., Nagpur 3. Reinventors Educational Center, Achalpur, Dist. Amravati 4. Shinde Enterprises, Wardha 5. K. B. Plastotech, Nagpur 6. Babalu's Bakery Shop, Wardha 7. GrampanchaytKaryalay ,Warud(BK) 8. Auto Lounge, Pune 9. AIVision,DPARK software consultancy ,Buldhana 10. Riya Holidays,Murtizapur 11. Beyond Temptation pune Pune 12. IndiaTechSoft, Pune **Internship Offering**	1. A MoU titled as "Skill Development and IP Sharing" in a domain of defense aviation and skill enhancement with Vidharbha Industry Defense Hub, MihanNagpur 2. A MoU titled as "Internship and Training of students and faculties" in a domain of Android , PHP and Web development with Renuka Technology, Nagpur 3. An MoU titled as "Internship and Training of students and faculties" in a domain of IoT Data Science and Software Testing with VnurtBangalore, Renuka Technology Nagpur 4. An MoU titled as "Internship and Training of students and faculties" ini a domain of IoT and basic electronics, Industry 4.0 with JDM Semiconductor Nagpur 5. An MoU titled as "Internship and Placement" in a domain of Android , PHP and Web development, data science with Clubix Technology Nagpur 6. An MoU titled as "Internship and Placement" in a domain of Training of Red Hat certification and placement with the Red Hat Academy, Bangalore

		Companies:	
		1. Vnurt Technology Solutions Pvt. Ltd., Banglore 2. Bolt IOT(Invetrom Private Limited), Banglore 3. One Smarter Inc., USA 4. Uptricks Services Pvt.Ltd, Pune 5. GTL Software Pvt. Ltd,Pune 6. BitlanceTechhubPvt.Ltd, Amravati 7. Cluebix software Pvt.Ltd, Nagpur 8. Location Guru, Nagpur 9. Zen Shanti.com,Pune 10. Poornadwait solution Pvt.Ltd, Amravati 11. JK Innovative, Amravati 12. EventBeep, Pune 13. ValueMomentum, Hyderabad 14. Novelvista, Pune	
Department of Mechanical Engineering			
No. of Project Carried out -05 Grant/Consultancy – Rs. 1,54,560/-	12	Yes	--
M.B.A. Department			
Nil	03	Nil	1. Subhash Gore, Secretary, Saturday Club Global Trust, Akola, Founder, Argents Software Pvt. Ltd., Mumbai 2. Mr. Ashvin Patil, founder, Biofuels Ltd, Mumbai

18. **EoA till the current Acadmic Year**

19. **Accounted audited statement for the last three years (Hear)**

20. Best Practice adopted, if any:

➢ Earn and Learn Scheme is implemented from the session 2021-22. The committee has selected 13-students for which Hostel Charge and Annual Food Charge in Mess for one academic year is waived off. 2-student for which Hostel Charges for one academic year is waived off. 1-student for which annual mess Charge for one academic year is waived off.

➢ 5 students are selected by the Scholarship Committee in the category of the Poor and Weaker Section and those students are benefitted as part of college fees is being reimbursed by one of our college alumni.

➢ The college has dedicated scholarship committee in which Merit Scholarship, Donors Scholarship, Award to GATE Scorer, Award for Best Project and Sport Award is being distributed every year.

➢ For the academic year 2020-21, 142- Merit Scholarship, 124-Donors Scholarship and 10-Award to GATE Scorer are distributed worth of Rs. 5,81,573/-

Innovative Practices

Spiritual Practices
- Prayer Halls in Hostels
- Values-based Literature Circulation
- Daily Classroom Prayer on Campus-wide Audio System
- Community Prayer Hall
- Yoga Classes
- Discourses by Spiritual Monks
- Spiritual Retreats
- Shiv-Darpan Library (Managed by Hostel Inmates)
- Participation in Dindi's and Spiritual Activities

Community Practices
- Festival Celebrations
- Jeevan Drishti Shibir
- Sahjeevan Shibir
- Personality Development Camp
- Mahaprasad (Community Meals)
- Nadbramha (Musical Instruments and Vocal Teaching-Learning by Music Teacher)
- Gajanan Bal Mandali
- Community Development and Extension Services

Traditional Technology for Self- reliance
- Renewable Energy Park
- Recycling of Waste
- Solar Street Lights
- Printing Section
- Drip Irrigation
- Rain Water Harvesting

Environment Friendly Living Practices
- Lush Green Campus
- Sewage Water Recycling
- Use of Solar Energy
- Pollution Free Campus