

# MANDATORY DISCLOSURE



**Vidya Pratishthan's  
KAMALNAYAN BAJAJ INSTITUTE OF  
ENGINEERING & TECHNOLOGY, BARAMATI**  
(Formerly Vidya Pratishthan's College of Engineering)  
**NAAC 'A' Grade Institute**



## Contact Details:

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Address: Vidyanagari, Bhigwan Road  
Baramati, Pin: 413 133  
Maharashtra, India.

10.1 Name of the Institution : **Vidya Pratishthan's  
Kamalnayan Bajaj Institute of Engineering &  
Technology, Baramati**

Address of the Institution	:	<b>Vidyanagari, M.I.D.C. (Resi. Zone), Baramati, Dist. Pune</b>
City & Pin Code	:	Baramati – 413 133.
State	:	Maharashtra
Longitude & Latitude	:	Latitude: N 18° 10' 41.991" Longitude: E 74° 36' 51.062"
Phone number with STD code	:	02112-239503 / 239504
FAX number with STD code	:	02112-239514
Office hours of the Institution	:	09:30 am to 05:30 pm
Academic hours of the Institution	:	09:00 am to 05:00 pm
Email	:	<a href="mailto:principal.vpkbiet@vidyapratishthan.com">principal.vpkbiet@vidyapratishthan.com</a>
Website	:	<a href="http://www.vpkbiet.org">www.vpkbiet.org</a>
Nearest Railway Station (distance in Km)	:	Baramati – 5 KM
Nearest Airport (distance in Km)	:	Pune – 110 KM

Location map of the Institution:



AICTE File No.	:	740-89-037(NDEG)/ET/2000
Permanent Institute ID	:	1-15559911
Date & Period of last approval	:	2019-20 (Vide AICTE letter No.: F.No. Western/1-7006963201 2020/EOA dated 15-06-2020)
Type of Institution	:	Private-Self Financed
Category (1) of the Institution	:	Non-Minority
Category (2) of the Institution	:	Co-Education

<b>10.2</b>	Name and address of the Trust/ Society/ Company and the Type of the organization	:	Vidya Pratishthan, Baramati Society and Trust
	Address of the organization	:	Vidyanagari, MIDC, Bhigwan Road, Baramati, Dist. Pune- 413133 Maharashtra State
	Registration	:	Asstt. Charity Commissioner, Pune Division, Pune
	Registration No. with date :	:	Under the Societies Registration Act, 1860: Regd no.: MAH 782 Poona dated 16-10-1972 Under Bombay Public Trusts Act 1950: Regd no.: F 591 (Poona) dated 11-10-1975
	Website of the organization	:	<a href="http://www.vidyapratishthan.org">www.vidyapratishthan.org</a>
<b>10.3</b>	Name and Address of the Vice Chancellor/ Principal/ Director	:	Dr. Rajankumar Sadashivrao Bichkar
	Designation	:	Principal
	Phone number with STD code	:	02112 – 239500 , 239503
	FAX number with STD code	:	02112 – 239514

Email : [principal.vpkbiet@vidyapratishthan.com](mailto:principal.vpkbiet@vidyapratishthan.com)  
 Highest Degree : B.E., M.E., Ph.D. (IITKGP)  
 Field of specialization : Model-Based Tomographic Reconstruction  
 Using Randomized Search and Optimization Techniques,  
 Image Processing, Evolutionary Computation

**10.4** Name of the affiliating University : Savitribai Phule Pune University, Pune  
 Address : Ganeshkhind, Pune – 411 007, Maharashtra State  
 Website : <http://www.unipune.ac.in>  
 Latest affiliation period : For academic year 2019-20  
 Vide university letter Ref. No.: CA/744 dated 16/05/2020

## 10.5 Governance

### 10.5.1 Members of the Board and their brief background

Sr. No.	Name	Designation
1	Shri. Sharadchandra Govindrao Pawar	President, Vidya Pratishthan
2	Shri. Ashok Vasudev Prabhune	Vice President
3	Shri. Yugendra Shrinivas Pawar	Treasurer
4	Adv. Neelima Vinodkumar Gujar	Secretary
5	Shri. Ajit Anantrao Pawar	Trustee
6	Sou. Supriya Sadanand Sule	Trustee
7	Sou. Sunetra Ajit Pawar	Trustee
8	Shri. Vitthal B. Maniyar	Trustee
9	Shri. Balasaheb Patil Taware	Member
10	Dr. Rajiv Motilal Shah	Member
11	Shri. Kiran Babanrao Gujar	Member
12	Shri. Mandar Shrikant Sikachi	Member
13	Dr. Ajeet Singh	Director, WRO, Mumbai
14	Dr. Abhay Wagh	Director, DTE, Mumbai
15	Dr. Manohar Chaskar	Dean - Faculty of Science & Technology
16	Dr. S.B. Lande	HoD, E&TC, VPKBIET Baramati
17	Dr. S. G. Morkhade	Asst. Prof. Dept.- Civil Engg.
18	Dr. R.S. Bichkar	Principal, VPKBIET Baramati

#### 1. Shri. Sharadchandra Govindrao Pawar (B.Com.) President

Work Profile :- An outstanding National level political leader and a ground root social worker. Hon. Pawar has been four times Chief Minister of Maharashtra ,formal Defense Minister and Agriculture Minister of Government of India, Leader of opposition in Parliament, Vice Chairman National Committee on Disaster Management, Chairman BCCI, Chairman Asian Federation of Kabaddi Association. He leads the NCP delegation in the Rajya Sabha, the upper chamber of the Indian parliament. Hon. Sharad Pawar has initiated rural development in Baramati during the early years of the eighth decade of the last century. According to Hon. Dr. Manmohan Singh, former Prime-Minister of India, ‘He is a role model of rural development for our country with proof of many water management projects and other developmental activities started and implemented in the rural places’. He started an educational society ‘Vidya Pratishthan’ in 1972 creating excellent institutions with world-class infrastructure and excellent academic culture. He has been awarded for "Outstanding Parliamentarian Award, 2003" by President Smt. Pratibha Devisingh and Honored Doctoral Degree in Humanities by Lawrence Technological University, Southfield, Michigan, Detroit, U.S.A.

#### 2. Shri. Ashok Vasudev Prabhune (LL.B) Vice-President

Work Profile: He is a practicing lawyer in Baramati court. A businessman of repute, an agriculturist, a social worker and an academician, a person who has contributed to the development of educational institutions of Vidya Pratishthan as Vice-President for the last 35 years.

#### 3. Shri. Yugendra Shrinivas Pawar Treasurer

Work Profile: He is a finance and insurance graduate from North Eastern University, Boston, USA. He leads many Industries as director.

#### 4. Adv. Neelima Vinodkumar Gujar Secretary

Work Profile: An academician of high repute, former secretary of the Association Management of unaided Engineering Colleges of Maharashtra, a modern agriculturist, a social reformer, a person who

has contributed to the development of educational institutions of Vidya Pratishthan as Secretary for last 35 years.

**5. Shri. Ajit Anantrao Pawar (B.Com.)**

**Trustee**

Work Profile: He is the current Deputy Chief Minister of Government of Maharashtra. He was Minister in Maharashtra State government for the last 16 years. He had managed portfolios of Irrigation, water management, electricity and power, rural development and Public works Department. A dynamic personality who is recognized in Maharashtra for his immaculate working in Maharashtra. A member instrumental in the infrastructure development not only of this institution but of the Baramati region.

**6. Sou. Supriya Sadanand Sule (B.Sc. Microbiology)**

**Trustee**

Work Profile: She is Member of Parliament of India of the Lok Sabha (House of People). She is an agriculturist and Social reformer with active participation in the upliftment of the society. A Politician and Social Initiative Leader, Supriya Sule has wide-ranging interests in the socio-cultural arena, especially in Paintings, Literature, and Science.

**7. Sou. Sunetra Pawar**

**Member**

Work Profile: Mrs. Pawar founder of Environmental Forum of India,, NGO in 2010, a mentor in inculcating the concept of ECO-VILLAGE in India. She also chairs Baramati Hi-Tech Textile Park. She led the Self-help group movement on NIRMAL GRAM(CLEAN VILLAGE) Campaign in 86 villages in M.S.

**8. Shri. Vitthal B. Maniyar (B.Com.)**

**Trustee**

Work Profile: He was Chairman of Mahesh Sahakari Bank. He is Trustee of Pune Zillha Krushi Vikas Pratishthan. He is a businessman and Social worke

**10.5.2 Academic Advisory Body**

Sr. No.	Name	Designation
1	Dr. R.S. Bichkar	Principal, VPKBIET ,Baramati
2	Dr. R. M. Shah	Management Member
3	Dr.Bharat Shinde	Principal, VP A.S.C.College Baramati
4	Faculty Members from Other Institute (CoEP)	Invited Member
5	All Head of the Departments	Member
6	Trainng and Placement Officer	Member
7	Head, IQAC	Member
8	Dr. R. K. Shastri	Dean Academics

**10.5.3-** Frequently of the Board Meeting :  
and Academic Advisory Body

Academic Advisory body meeting held once  
in year as per the availability of President

**10.5.4 Organizational chart and processes:**

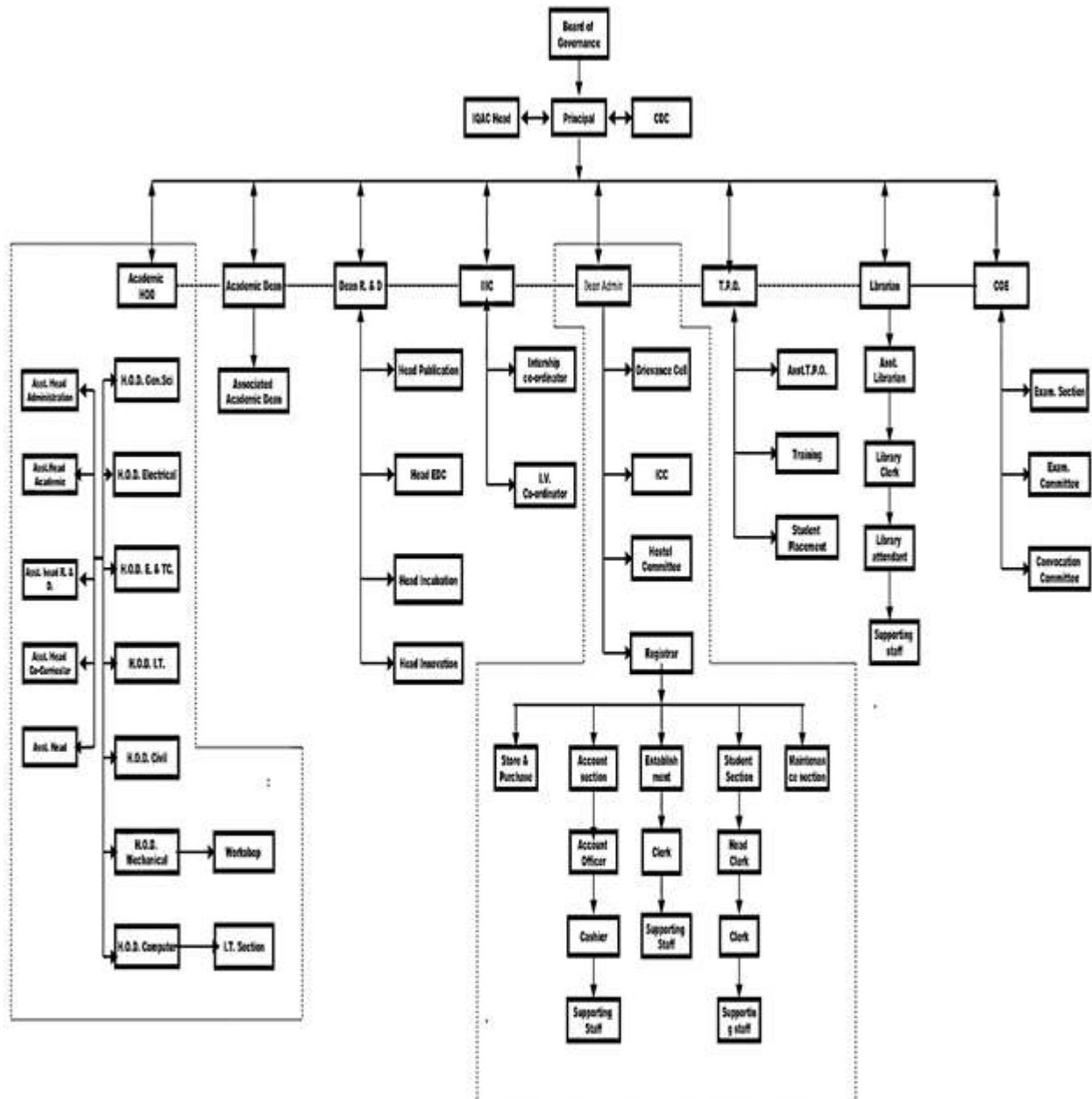
Principal is the executive head of the College. He manages college activities through Deans, different heads of departments, Registrar and Accountant. The academic function is managed through the Dean, Heads, Professors, and Assistant Professors. The Librarian manages library with the coordination of HOD's, staff and accountant. The purchases of equipment and consumables are done as per budget provisions with the help of stores and accounts. IQAC works in feedback path to improve Institute performance on quality parameters.

Every term academic and administrative planning is done in a staff meeting deciding the course of activities and policies for the term to achieve academic improvements and student culture. Feedback from students about their faculty is taken once every year and the performance of the staff is assessed, taking this as one of the elements of staff assessment.

The Management Committee reviews the monthly activities through its meetings and gives directions about the policies and purchases for further actions. The management decides the budget for the ensuing year. Annual general meeting of the society is held once in a year where the review of all institutes is taken and the decisions for the next year plans are taken

**Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati**

**Organizational Chart**



- CDC: College Development Committee
- IIC: Industry Institute Interaction cell
- TPO: Training Placement Officer
- HOD: Head of Department
- COE: College Examination Officer
- ICC: Internal Compliant Committee

### **10.5.5 Nature & Extent of involvement of Faculty & students in academic affairs/improvements**

Faculties and students are encouraged for attending programs such as conferences, seminars, faculty development programs, presenting papers in conferences, publishing papers in various journals. Also, for attending MOOCs courses such as NPTEL, UDEMY and other.

- a) By Class room teaching, Practical conductions and through Tutorials
- b) By involving them through work books of respective subjects.
- c) By industrial internships/trainings
- d) By industrial visits
- e) By final year projects
- f) By extracurricular activitie
- g) By arranging Guest lectures, Expert talks,
- h) By arranging curriculum related workshops, seminars, events
- i) By arranging students technical events
- j) By providing platform to students for overall development of their career (Like MOOC Courses- NPTEL, Udemy, Coursera etc.) and motivating them to pursue higher qualifications.

### **10.5.6 Mechanism/ Norms and Procedure for democratic/ good Governance**

The management of the Institute is always proactive in introducing new methods for enhancing the governance and leadership among faculty, staff and students. The Institute organizes need based motivational training programs for faculty and staff. The HoDs are given academic and administrative freedom in smooth functioning and development of the department. The management encourages the faculty to carry out the research and consultancy activities. It has provided a well-defined guideline for the distribution of income generated through various research and consultancy programs. The management motivates the faculty and staff to attend various workshops/ seminars/conferences by way of partial reimbursement of the expenses. The Institute aims to achieve the center of excellence in academic research in selected areas of engineering by motivating the entire faculty to pursue Ph. D Programs.

- a) Involving stakeholders in major activities
- b) Taking students involvement and confidence in activities
- c) Including student and staff in departmental meetings (Related to students activity only)
- d) Building confidence in faculties and staff
- e) Providing conducive environment for faculty, staff and students
- f) Working beyond the limits of curriculum
- g) Encouraging/motivating faculty ,staff and students for their futuristic development
- h) Arranging social, recreational activities for faculty and staff
- i) Teaching (Faculties) and Non-teaching (Staff) feedback by Head of Department and Principal.

### **10.5.7 Student feedback mechanism on Institutional Governance/faculty performance**

Two times in every year, student feedback on faculty and institution is taken using ERP. The feedback is assessed and reviewed by Principal, HOD and concerned staff. Steps are taken to improve the situation. Follow up is done by HODs. This feedback mechanism has helped to improve the image of the college in the eyes of the students and parents.

#### **End-Semester Student Feedback Semester-I (2019-20)**

##### **Theory:**

Sr. No.	Parameter	Poor	Average	Good	Very Good	Excellent
1	<b>Knowledge Delivery:</b> How well the subject knowledge is delivered w.r.t subject contents, teaching method, practical examples etc.					
2	<b>Google Classroom:</b> Unit wise ppts, videos, web links, skill development resources etc. and its Quality					
3	<b>Examination Preparation:</b> usefulness of teaching for exams, Question bank, online mock tests, question paper analysis, writing skills for exams etc.					
4	<b>Self-video lectures:</b> available for min. 3 units and quality of video lectures.					

5	<b>R&amp; D Activities:</b> Guidance and encouragement for R&D activities like paper publication, filing patent and sharing project ideas.					
6	<b>Co-curricular Activities:</b> Encouragement and guidance and for participation in technical events, competitions.					
7	<b>Self-Learning:</b> Guidance and encouragement for doing online certification courses like NPTEL, Udemy, FOSS, Microsoft, MATLAB, Spoken Tutorials etc.					
8	<b>Industry Orientation:</b> Organizing industry visit, internship, job opportunities,					
9	<b>Extra-Curricular:</b> Motivates students to participate in societal activities, to follow ethics and human values					
10	<b>Skill Development:</b> Efforts for development of various skills required for jobs.					

### Practical

Sr. No.	Parameter	Poor	Average	Good	Very Good	Excellent
1	Full-time Availability in the lab					
2	Explanation of Experiment					
3	Practical Knowledge of the Subject					
4	Quality of Lab Manual					
5	Supports for Practical performance					

Feedback is scaled in the range of 1-5 (Poor-1, Average-2, Good-3, Very Good-4, Excellent-5)

### 10.5.8 Grievance redressal mechanism for faculty, staff and students

The grievances of the students are settled through the concerned head of the department, staff and student along with the parent if needed. The common matters are discussed in the staff meeting as well as in the student council and agreeable solutions are decided as policy for the college working and presented to the managing committee for approval. Serious misdeeds are handled as per the law in force, University act, and procedure set by the management.

### 10.5.9 Establishment of Anti Ragging Committee

S.N	Name	Representative	Designation
1	Dr. R.S. Bichkar	Principal, VPKBIET	Chairman
2	Chief Executive Officer, Baramati Municipal Council	Representative Civil Administration	Member
3	PI, Baramati Rural Police Station, MIDC Baramati	Representative Police Administration	Member
4	Adv. Ms. Neelima Gujar (Member, Environmental Forum of India, Baramati)	Representative NGO	Member
5	Mr. D. G. Patil (Asst. Prof., Civil.Engg., VPKBIET)	Representative – Faculty	Member
6	Mrs. Bhoite Gauri Gajendra (Asst. Prof., General Scince VPKBIET)	Representative – Faculty	Member
7	Mr. More Atul Shankarrao (Student Parent)	Representative – Parent	Member
8	Miss Tejaswini Mahadev Hegade (BE-Civil)	Representative Student – TE	Member

9	Mr Raut Abhishek (FE)	Representative Student – FE	Member
10	Mr. Taware Satish Haribhau (Administrative Officer, VPKBIET)	Representative Non-Teaching Staff	Member

#### 10.5.10 - Establishment of Online Grievance Redressal Mechanism

Online grievance mechanism is established where students can send their suggestions/grievances on through website or can send an email at [grievances@vpkbiet.org](mailto:grievances@vpkbiet.org)

You can also email your suggestions/grievances at [grievances@vpkbiet.org](mailto:grievances@vpkbiet.org)

**Online Grievance Redressal Mechanism**  
(Send email regarding grievances to: [grievances@vpkbiet.org](mailto:grievances@vpkbiet.org))  
**Grievance Redressal Process**

#### 10.5.11 Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University

Sr. No.	Name	Designation
1	Dr.R.S. Bichkar	Chairman
2	Dr. S.B. Lande	Member
3	Dr. R. K. Shastri	Member
4	Mrs. S.S. Nandgaonkar	Member
5	Mrs. S.A. Takale	Member

#### 10.5.12 Establishment of Internal Complaint Committee (ICC)

Sr. No.	Name	Designation
1	<b>Dr. Sajjan Aparna Ganeshappa</b>	Presiding Officer
2	Mrs. Prachi Kale	Two Committee Members - Teaching Faculties nominated by the Principal
3	Mr. Jadhav Madan Mohan	
4	Mrs. Pornima Sarode	Two Committee Members - Non-Teaching Faculties nominated by the Principal
5	Mr. Natu Nitve	
6	Ms. Shaikh Sana Husen	Undergraduate Student
7	Ms. Parab Sonali Narayan	Postgraduate Student
8	Advt. Ms. Neelima Gujar	External Member

#### 10.5.13 Establishment of Committee for SC/ ST

Sr. No.	Name	Designation
1	Prof. Premanand Kadbe	Coordinator
2	Prof. Vishal Bhagwat	Member
3	Shri. Santosh Gade	Member
4	Shri. Dayanand Sonawane	Member
5	Shri. Dadasaheb Gaikwad	Member

#### 10.5.14 Internal Quality Assurance Cell

Sr. No.	Name	Designation/Department	IQAC Designation
1	<b>Dr. R. S. Bichkar</b>	Principal, VPKBIET Baramati	Chairman, IQAC
2	.Mr. Y. S. Pawar	Treasurer, Vidya Pratishthan, Baramati	Management Representative
3	Dr. C. S. Kulkarni	Associate Professor, Comp. Engg.	IQAC Coordinator

4	Mr. V. U. Deshmukh	Assistant Professor, E&TC. Engg.	IQAC Co-Coordinator
5	Mr. S. H. Taware	Administrative Officer	Member, VPKBIET Administration
	Mr. S. S. Dandvate	Accounts Officer	
6	Dr. S. B. Lande	Vice-Principal & Head, Dept. of E.& TC. Engg.	Member
	Dr. R. K. Shastri	Dean, Academics	
	Dr. S. M. Bhosle	Dean, R&D	
	Dr. D. B. Hanchate	Dean, IIC	
	Dr. S. K. Shinde	Professor & Head, Dept. of Comp. Engg.	
	Dr. S. A. Takale	Professor & Head, Dept. of Info. Tech.	
	Dr. P. R. Chitragar	Professor & Head, Dept. of Mechanical Engg.	
	Dr. G. N. Narule	Associate Prof. & Head, Dept. of Civil Engg.	
	Dr. N. B. Wagh	Professor & Head, Dept. of Electrical Engg.	
	Dr. A. P. Hiwarekar	Professor & Head, Dept. of General Science.	
7	Dr. B. H. Patil	Alumni, Institute Coordinator	
8	Mr. D. S. Jamdar	President: Baramati Chamber of commerce & Industry, CMD: Enforce Engg. Solutions Pvt. Ltd.	Member, Industry
9	Mr. P. B. Taware	NGO Member Social Worker	Member, Community Service
10	Mr. A. N. Fulari Ms. S. U. Jagtap	Student, Computer Engg. Student, Civil Engg..	Member

### 10.6 Programmes:

- Name of Programmes approved by AICTE

#### Under Graduate:

SN	Course	Year of affiliation	AICTE Approval No.	Government G.R. No.	University Affiliation Letter No.
1	Computer Engineering	2000	F. No. 740-89-037 (NDEG-APR)/ET/2000 dated 21-6-2000	PEC 20/00/(292/00) Tanshi 1 dated 27-6-2000	CA/5358 dated 22-11-2000
2	Information Technology	2000	F. No. 740-89-037 (NDEG-APR)/ET/2000 dated 21-6-2000	PEC 20/00/(292/00) Tanshi 1 dated 27-6-2000	CA/5358 dated 22-11-2000
3	Elect. & Telecom. Engineering	2000	F. No. 740-89-037 (NDEG-APR)/ET/2000 dated 21-6-2000	PEC 20/00/(292/00) Tanshi 1 dated 27-6-2000	CA/5358 dated 22-11-2000
4	Mechanical Engineering	2002	F. No. 740-89-037 (NDEG)/ET/2000 dated 14-6-2002	TEM-2002/(206/02) Tanshi 1 dated 29-6-2002	CA/4222 dated 4-8-2003
5	Civil Engineering	2006	F. No. 740-89-037 (NDEG)/ET/2000 dated 26-5-2006	TEM-2006/(332/06) Tanshi 1 dated 19-6-2006	CA/8530 dated 12-12-2006

6	Electrical Engineering	2010	Western Region, Maharashtra / 1-1559911/2010/EOA dated 8-11-2010	Sankirn-2010/(188/2010)/Tanshi-4 dated 30-7-2010	CA/295 dated 31-1-2011
7	Artificial Intelligence and Data Science	2020	F.No. Western/1-7006963201/2020/EOA dated 15-06-2020	TEM 2020/102 Tanshi 4 Dated 13-08-2020	

- **Post Graduate:**

SN	Course	Year of affiliation	AICTE Approval No.	Government G.R. No.	University Affiliation Letter No.
1	Civil Structural Engineering	2012	Western/1-717782077/2012/EOA dated 10/5/2012	टीईएम-२०१२/प्र.क्र.९८(भाग १)/तांशि-४ dated 30-6-2012	CA/205 dated 11-1-2013

- Name of Programmes Accredited by AICTE : **NIL**
- Status of Accreditation of the Courses : **NIL**
- Total number of Courses : **8**
- No. of Courses for which applied for Accreditation : **2**
- Status of Accreditation – Preliminary/ Applied for SAR and results awaited/ Applied for SAR and visits completed/ Results of the visits awaited/ Rejected/ Approved for ..... Courses : **Applied for SAR**

- **For each Programme the following details are to be given:**

Computer Engineering:	2020-21		2019-2020		2018-2019	
	UG	PG	UG	PG	UG	PG
Name of Course						
No. of Seats (Intake)	60	-	60	18	60	18
Duration	4 Yrs	-	4 Yrs	2 Yrs	4 Yrs	2 Yrs
Year wise Actual Admissions in FE	71	-	71*	01	60*	18
Cut off marks/rank of admission during the last three years	7.06	-	9.5757624	2.67	39/200	3.26
Fees	97519	-	97,516	71,272	76,495	42,028
Placement Facilitie	Available	-	Available	Available	Available	Available
Campus placement in last three years	23(Till date)	-	46	NIL	49	NIL
Avrage Salary (Lakh per anum)	3.25	-	3.44	NIL	3.30	NIL
Maximum Salary(Lakh per anum)	5	-	5	Nil	4.25	NIL
Minimum Salary( Lakh per anum)	1.8	-	2.4	Nil	1	Nil
% Students passed with Distinction in Final Year	Not Yet Declared	-	45.57	-	46.88	100
% Students passed with First Class in Final year	Not Yet Declared	-	40.51	-	446.88	-
Information Technology:	2020-21		2019-2020		2018-2019	
			UG		UG	
Name of Course						
No. of Seats (Intake)	60		60		60	
Duration	4 Yrs		4 Yrs		4 Yrs	
Year wise Actual Admissions in FE	70		59*		59*	

Cut off marks/rank of admission during the last three years	13.58	15.68875	34/200
Fees	97519	97,516	76,495
Placement Facilities	Available	Available	Available
Campus Placement in Last threeyears	14(till date)	29	44
Average Salary (Lakh per anum)	3.56	3.92	3.48
Maximum salary (Lakh Per anum)	8.5	10	4.2
Minimum Salary (Lakh Per anum)	2.5	1.5	1.4
% Students passed with Distinction in Final Year	Not declared	18.31	28.38
% Students passed with First Class in Final year	Not declared	52.1	48.65

Electronics & Telecomm. Engineering:	2020-21		2019-2020		2018-2019	
	UG	PG	UG	PG	UG	PG
Name of Course						
No. of Seats (Intake)	60		120	18	120	18
Duration	4Yrs		4 Yrs	2 Yrs	4 Yrs	2 Yrs
Year wise Actual Admissions in FE	59		76*	02	76*	04
Cut off marks/rank of admission during the last three years	5.69		0.986001	9.33	46/200	3.33
Fees	97519		97,516	71,272	76,495	42,028
<b>Placement Facilitie</b>	Available		Available	Available	Available	Availabl e
Campus Placements in Last Three Years	9(till date)		18	NIL	43	NIL
Average salary in Lakh Per anum	3.25		4.13	NIL	3	NiL
Maximum Salary in Lakh Per anum	3.36		10	NIL	4.3	NiL
Minimum Salary in Lakh per anum	2.5		1	NIL	1.2	NIL
% Students passed with Distinction in Final Year	Not yet declared	Not yet declared	14.29	-	28.57	-
% Students passed with First Class in Final year			40.82	-	42.11	----
Mechanical Engineering:	2020-21		2019-2020		2018-2019	
	UG	PG	UG	PG	UG	PG
Name of Course						
No. of Seats (Intake)	60		60	18+18	60	18+18
Duration	4Yrs		4 Yrs	2 Yrs	4 Yrs	2 Yrs
Year wise Actual Admissions in FE	45		60*	NIL	60*	08 / 02
Cut off marks/rank of admission during the last three years	3.79		2.0886	NIL	48/200	8.87 / 7.19
Fees	97519		97,516	71,272	76,495	42,028
Placement Facilities	Available		Available	Available	Available	Availabl e
Campus placement in last three years	8(till date)		21	NIL	50	NIL
Average Salary per anum	3.49		2.83	NIL	2.32	NIL
Maximum Salary in Lakh per anum	10		5	NIL	4	NIL

Minimum Salary in Lakh per anum	1.8		1	NIL	1	NIL
% Students passed with Distinction in Final Year	Not Yet Declared		55	-	75	
% Students passed with First Class in Final year	Not Yet Declared		29	-	11	----
<b>Civil Engineering:</b>	<b>2020-21</b>		<b>2019-2020</b>		<b>2018-2019</b>	
	<b>UG</b>	<b>PG</b>	<b>UG</b>	<b>PG</b>	<b>UG</b>	<b>PG</b>
Name of Course						
No. of Seats (Intake)	60	18	60	18	60	18
Duration	4Yrs	2Yrs	4 Yrs	2 Yrs	4 Yrs	2 Yrs
Year wise Actual Admissions in FE	54		60*	12	60*	18
Cut off marks/rank of admission during the last three years	2.8		6.575031	1.8	39/200	3.26
Fees	97519		97,516	71,272	76,495	42,028
Placement Facilities	Available		Available	Available	Available	Available
Campus placement in last three years	3		10	NIL	23	NIL
Average Salary in Lakh per anum	1.8		3.3	NIL	2.2	NIL
Maximum salary in Lakh per anum	1.8		3.5	NIL	3.6	NIL
Minimum salary in Lakh Per anum	1.8		1.8	NIL	1.44	NIL
% Students passed with Distinction in Final Year	Not Yet Declared	Not Yet Declared	88	11.2	77.94	75
% Students passed with First Class in Final year	Not Yet Declared	Not Yet Declared	12	58.2	14.71	-
<b>Electrical Engineering:</b>	<b>2020-21</b>		<b>2019-2020</b>		<b>2018-2019</b>	
	<b>UG</b>		<b>UG</b>		<b>UG</b>	
Name of Course						
No. of Seats (Intake)	60		60		60	
Duration	4Yrs		4 Yrs		4 Yrs	
Year wise Actual Admissions in FE			52*		52*	
Cut off marks/rank of admission during the last three years			2.046957		30/200	
Fees	97519		97,516		76,495	
Placement Facilities	Available		Available		Available	
Campus placement in last three years	6		7		31	
Average salary in Lakh per anum	3.15		3		2.10	
Maximum salary in Lakh Per anum	3.36		3.6		3.75	
Minimum salary in Lakh Per anum.	2.5		1.44		0.59	
% Students passed with Distinction in Final Year	Result not declared		86.61		61.84	
% Students passed with First Class in Final year	Result not declared		16		22.37	

**10.7 Faculty**

- Branch wise list Faculty members : Faculty List is available on college web Portal of respective department.
- Permanent Faculty : 70
- Adhoc Faculty : 52

- Total Faculty : 122
- Adjunct Faculty : 0
- Faculty Student Ratio: : 1:17 (Approved faculty : student ratio = 1:25)
- Number of Faculty left during last three years : 37

### 10.8 Profile of Vice Chancellor/ Director/ Principal/ Faculty

For each Faculty give a page covering with Passport size photograph

i. Name	:	Dr. Rajankumar Sadashivrao Bichkar
ii. Date of Birth	:	07/03/1966
iii. Unique id	:	---
iv. Education Qualifications	:	B.E., M.E., Ph.D. (IITKGP)
v. Work Experience	:	32.5 Yrs.
• Teaching	:	32.5 Yrs.
• Research	:	---
• Industry	:	---
• others	:	---
vi. Area of Specialization	:	Model-Based Tomographic Reconstruction Using Randomized Search and Optimization Techniques, Image Processing, Evolutionary Computation
vii. Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	:	:Under Graduate/ Post Graduate
viii. Research guidance	:	----
No. of papers published in National/ International Journals/ Conferences	:	More than 50
Master	:	
Ph.D.	:	13
ix. Projects carried out	:	----
x. Patents	:	----
xi. Technology Transfer	:	----
Xii No. of Books published	:	04

Principal and faculty profiles are available on college web portal of respective department.

For more details please visit:

[http://vpkbiet.org/dept\\_EnC.php#faculty](http://vpkbiet.org/dept_EnC.php#faculty)

[http://vpkbiet.org/dept\\_Computer.php#faculty](http://vpkbiet.org/dept_Computer.php#faculty)

[http://vpkbiet.org/dept\\_IT.php#faculty](http://vpkbiet.org/dept_IT.php#faculty)

[http://vpkbiet.org/dept\\_Mechanical.php#faculty](http://vpkbiet.org/dept_Mechanical.php#faculty)

[http://vpkbiet.org/dept\\_Electrical.php#faculty](http://vpkbiet.org/dept_Electrical.php#faculty)

[http://vpkbiet.org/dept\\_Civil.php#faculty](http://vpkbiet.org/dept_Civil.php#faculty)

[http://vpkbiet.org/dept\\_FE.php#faculty](http://vpkbiet.org/dept_FE.php#faculty)

### 10.9 Fee

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

#### Undergraduate:

1	Tuition & Development Fees	Rs. 90,000/-
2	Other Fees (University Fees + Amartya Shiksha Yojana policy premium)	Rs. 1,519/-
3	Refundable Deposit	Rs. 6,000/-
	<b>Total</b>	<b>Rs. 97,519/-</b>

#### Post graduate:

1	Tuition & Development Fees	Rs. 65,000/-
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3	Other Fees (University Fees + Amartya Shiksha Yojana policy premium)	Rs. 1,272/-
4	Refundable Deposit	Rs. 5,000/-
	<b>Total</b>	<b>Rs. 71,272/-</b>

- Time schedule for payment of fee : Maximum 12 Month
- No. of Fee waivers granted : -
- Number of scholarship offered by the Institution : 04
- Criteria for fee waivers/scholarship : As per Trust guidelines
- Estimated cost of boarding and lodging in Hostels : Yes (Rs.40,000/-)

#### 10.10 Admission

- Number of seats sanctioned with the year of approval

Sr No.	Name of Course	Sanctioned Intake (Year wise)					Actual Admitted (2020-21)				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	Total	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	Total
1	Computer Engineering	60	60	60	60	240	71	85	68	74	298
2	Information Technology	60	60	60	60	240	70	86	73	68	297
3	Elect. & Telecomm. Engg.	60	120	120	120	420	59	123	95	111	388
4	Mechanical Engineering	60	60	60	60	240	45	94	66	70	275
5	Civil Engineering	60	60	60	60	240	54	94	73	68	289
6	Electrical Engineering	60	60	60	60	240	55	94	69	70	288
7	Artificial Intelligence and Data Science	60	60	60	60	240	69	--	--	--	69
	<b>Total:</b>	420	480	480	480	1860	422	576	444	461	1904

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

#### Under Graduate Year 2020-21

Branch	SC		ST		DT/VJ (NT-A)		NT 1 (NT-B)		NT 2 (NT-C)		NT 3 (NT-D)		OBC		SBC		SEBC		OPEN		Total		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
<b>CIVIL</b>																							
FE	1	2	0	0	1	0	0	0	5	1	1	0	7	2	0	0	1	0	26	7	42	12	54
SE	6	4	0	0	0	2	2	1	8	3	4	1	14	5	2	0	18	4	12	8	66	28	94
TE	2	3	0	0	1	1	5	0	5	1	2	2	12	6	1	1	0	1	23	7	51	22	73
BE	6	2	0	0	2	0	1	0	4	3	2	1	6	6	1	1	0	0	23	10	45	23	68
<b>MECHANICAL</b>																							
FE	2	0	0	0	1	0	1	0	3	0	2	0	6	1	0	0	0	0	27	2	42	3	45
SE	8	3	0	0	1	0	2	0	7	0	1	0	20	0	0	1	13	0	33	5	85	9	94
TE	4	1	0	0	1	1	0	0	6	0	1	0	16	6	1	0	3	0	19	7	51	15	66
BE	7	1	0	0	2	0	0	0	2	3	2	0	15	4	3	1	0	0	25	5	56	14	70
<b>ELECTRICAL</b>																							
FE	2	1	0	0	0	0	0	0	9	5	0	0	9	1	0	0	1	0	21	6	42	13	55
SE	6	4	0	0	2	2	2	0	1	1	3	0	2	6	1	0	5	2	19	7	72	22	94

									1				3											
TE	5	5	0	0	1	1	2	0	4	2	0	1	7	4	2	1	0	6	18	10	39	30	69	
BE	8	1	0	0	1	0	2	0	9	4	3	2	1	5	0	3	0	0	13	7	48	22	70	
<b>E&amp;TC</b>																								
FE	3	1	0	0	0	0	1	0	3	3	1	0	5	5	3	1	0	0	18	15	34	25	59	
SE	4	5	0	0	0	0	0	1	1	7	0	0	1	1	1	1	9	19	24	60	63	123		
TE	2	4	0	0	0	0	0	0	2	4	1	1	1	5	0	1	4	3	25	32	45	50	95	
BE	4	4	0	0	0	0	0	0	5	1	0	2	1	1	0	0	0	0	34	32	57	54	111	
<b>COMPUTER</b>																								
FE	4	1	0	0	1	1	1	0	3	2	2	0	1	9	0	0	0	0	22	12	46	25	71	
SE	2	4	0	1	2	1	3	0	1	5	0	0	1	8	0	1	9	7	14	15	43	42	85	
TE	4	4	0	0	0	2	0	0	1	1	0	0	8	9	0	1	1	0	12	25	26	42	68	
BE	5	4	0	0	0	1	1	1	1	3	0	2	8	1	0	4	0	0	12	21	27	47	74	
<b>I.T.</b>																								
FE	3	2	0	0	1	0	2	0	0	3	0	1	7	1	0	0	1	0	20	20	34	36	70	
SE	6	4	0	0	0	1	1	2	5	4	0	1	1	8	1	1	9	6	9	14	45	41	86	
TE	4	6	0	0	1	0	0	0	2	2	0	1	1	1	1	0	1	4	14	13	36	37	73	
BE	3	3	0	0	1	2	0	0	3	7	1	1	1	1	0	0	0	0	7	17	26	42	68	
<b>AI&amp;DS</b>																								
FE																								
<b>Total:</b>																								
<b>ME</b>																								
Branch	SC		ST		DT/VJ (NT-A)		NT 1 (NT-B)		NT 2 (NT-C)		NT 3 (NT-D)		OBC		SBC		SEBC		OPEN		Total		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
<b>CE</b>																								
ME-I																								
ME-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	01	
<b>DS</b>																								
ME-I																								
ME-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	02	
<b>DE</b>																								
ME-I																								
ME-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	01	
<b>EE</b>																								
ME-I																								
ME-II																								
<b>SE</b>																								
ME-I	2	0	0	0	0	0	0	0	3	1	0	0	2	1	0	0	0	0	6	4	13	6	19	
ME-II	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	4	3	7	5	12	
<b>Total:</b>																								
<b>Gross Total:</b>																								

**Under Graduate: Year: 2019-2020**

Branch	SC		ST		DT/VJ (NT-A)		NT 1 (NT-B)		NT 2 (NT-C)		NT 3 (NT-D)		OBC		SBC		SEB C		OPEN		Total		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
<b>CIVIL</b>																								
FE	4	3	1	0	0	0	2	1	4	1	2	1	9	2	1	0	1	9	4	5	1	47	13	60
SE	2	3	0	0	1	1	4	0	5	1	1	1	10	5	1	1	0	2	18	7	42	21	63	
TE	5	2	0	0	2	0	1	0	4	3	2	1	6	6	1	1	0	0	22	10	43	23	66	
BE	5	5	1	0	0	0	2	0	6	0	0	1	11	3	1	1	0	0	24	15	50	25	75	
<b>MECHANICAL</b>																								0
FE	4	0	0	0	1	0	1	0	5	0	1	0	11	0	1	1	1	5	0	15	2	54	3	57
SE	2	0	0	0	1	0	0	0	6	0	1	0	15	6	1	0	3	0	16	7	45	13	58	
TE	7	1	0	0	2	0	0	0	1	2	2	0	13	4	3	1	0	0	25	5	53	13	66	
BE	7	1	1	0	1	0	0	0	2	1	1	0	21	3	1	1	0	0	24	5	58	11	69	
<b>ELECTRI</b>																								

CAL																								
FE	4	1	0	0	0	0	2	0	9	1	1	0	13	5	0	0	7	3	6	0	42	10	52	
SE	3	4	0	0	1	1	1	0	1	2	0	1	6	4	1	0	0	6	14	10	27	28	55	
TE	6	1	0	0	1	0	1	0	9	4	2	2	10	4	0	3	0	0	12	7	41	21	62	
BE	5	6	0	1	0	0	1	1	2	6	2	1	9	8	0	0	0	0	21	12	40	35	75	
E&TC																								
FE	3	4	0	0	0	0	0	0	5	5	0	0	15	11	1	1	1	0	8	14	7	48	36	84
SE	2	4	0	0	0	0	0	0	2	5	1	1	7	5	0	1	4	3	23	32	39	51	90	
TE	1	2	0	0	0	0	0	0	4	1	0	0	11	14	1	0	0	0	32	28	49	45	94	
BE	5	0	0	0	1	1	1	2	7	1	3	0	4	16	22	1	3	0	0	30	43	61	88	149
COMPUTE R																								
FE	2	2	0	1	1	0	3	0	2	5	0	0	10	6	0	0	9	7	13	10	40	31	71	
SE	4	4	0	0	0	2	0	0	1	1	0	0	8	9	0	1	1	0	11	24	25	41	66	
TE	4	4	0	0	0	0	1	1	1	3	0	2	8	10	0	3	0	0	12	19	26	42	68	
BE	4	7	0	0	0	0	0	1	4	2	1	1	8	8	1	2	0	0	14	26	32	47	79	
I.T.																								
FE	2	3	0	0	0	1	0	2	5	3	0	1	11	6	0	1	9	6	7	4	34	27	61	
SE	3	5	0	0	1	0	0	0	2	2	0	1	10	9	0	0	1	4	13	13	30	34	64	
TE	3	3	0	0	1	2	0	0	3	7	1	1	10	11	1	1	0	0	7	17	26	42	68	
BE	4	1	0	0	0	0	0	0	3	4	1	0	12	12	0	2	0	0	12	23	32	42	74	
<b>Total:</b>	<b>9</b>	<b>6</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>8</b>	<b>2</b>	<b>8</b>	<b>9</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>26</b>	<b>17</b>	<b>1</b>	<b>2</b>			<b>39</b>	<b>32</b>	<b>98</b>	<b>74</b>	<b>172</b>	
	<b>1</b>	<b>6</b>			<b>4</b>		<b>0</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>9</b>	<b>9</b>	<b>0</b>	<b>3</b>	<b>6</b>	<b>4</b>			<b>0</b>	<b>7</b>	<b>4</b>	<b>2</b>	<b>6</b>	
ME																								
Branch	SC		ST		DT/VJ		NT1(B)		NT2(C)		NT3(D)		OBC		SBC		SEB C		OPEN		Total		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
CE																								
ME-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	
ME-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	
DS																								
ME-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	
ME-II	0	1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	4	4	
DE																								
ME-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ME-II	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	3	1	5	1	6	
EE																								
ME-I																					0	0	0	
ME-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	2	
SE																								
ME-I	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	4	3	7	5	12	
ME-II	2	1	0	0	0	0	0	0	2	0	0	0	2	1	0	0	0	9	1	15	3	18		
<b>Total:</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>18</b>	<b>10</b>	<b>29</b>	<b>18</b>	<b>47</b>	
<b>Gross Total:</b>	<b>9</b>	<b>6</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>8</b>	<b>2</b>	<b>8</b>	<b>9</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>26</b>	<b>17</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>40</b>	<b>33</b>	<b>10</b>	<b>76</b>	<b>177</b>	
	<b>4</b>	<b>8</b>			<b>5</b>		<b>0</b>	<b>8</b>	<b>6</b>	<b>3</b>	<b>9</b>	<b>0</b>	<b>4</b>	<b>6</b>	<b>6</b>	<b>4</b>		<b>8</b>	<b>7</b>	<b>13</b>	<b>0</b>	<b>3</b>		

## Under Graduate: Year: 2018-2019

Branch	SC		ST		DT/VJ		NT1(B)		NT2(C)		NT3(D)		OBC		SBC		OPEN		Total		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Civil Engineering																						
FE	4	3	0	0	0	1	2	0	7	1	1	1	6	6	1	1	19	7	40	20	60	
SE	5	2	0	0	2	0	2	0	2	2	2	2	7	7	1	1	24	10	45	24	69	
TE	5	5	0	0	0	0	2	0	6	0	0	1	10	3	1	0	25	13	49	22	71	
BE	7	3	0	0	0	1	0	0	0	2	2	3	16	3	0	2	20	9	45	23	68	
Mechanical Engineering																						
FE	7	1	0	0	1	0	1	0	7	0	1	0	13	5	0	0	19	5	49	11	60	
SE	8	2	0	0	2	1	1	0	1	2	2	0	15	2	3	1	26	5	58	13	71	
TE	8	1	1	0	1	0	0	0	1	2	1	0	22	3	1	1	22	5	57	12	69	
BE	9	1	0	0	1	0	2	0	2	0	0	0	11	5	2	2	35	5	62	13	75	
Electrical Engineering																						
FE	4	3	0	0	3	0	1	0	3	1	2	0	8	2	1	0	17	7	39	13	52	
SE	8	3	0	0	1	0	2	0	1	0	3	2	11	4	1	3	16	8	51	23	74	
TE	5	6	0	1	0	0	2	1	3	5	3	1	12	7	0	0	20	12	45	33	78	
BE	3	3	1	0	0	0	2	0	4	4	3	1	7	5	1	0	25	17	46	30	76	
Electronics & Telecommunication																						
FE	0	1	0	0	0	0	0	0	5	3	0	1	7	6	0	1	23	29	35	41	76	
SE	0	2	0	0	0	0	0	0	4	1	0	0	13	13	1	0	33	25	51	41	92	
TE	5	1	0	0	1	1	1	2	9	1	0	5	17	16	0	2	31	43	64	80	14	4

BE	3	6	0	0	0	1	0	1	5	9	1	1	8	20	0	3	27	49	44	90	134
<b>Computer Engineering</b>																					
FE	5	2	0	0	1	2	0	0	0	1	1	0	6	7	0	1	14	18	27	31	58
SE	3	4	0	0	0	0	1	1	1	3	0	2	8	10	0	3	12	18	25	41	66
TE	5	7	0	0	0	1	0	1	4	2	1	0	8	7	1	3	14	28	33	49	82
BE	2	4	0	0	0	1	1	1	0	1	0	0	6	4	0	2	19	23	28	36	64
<b>Information Technology</b>																					
FE	5	3	0	0	1	0	1	0	1	1	1	0	12	5	1	0	14	14	36	23	59
SE	3	4	0	0	0	2	0	0	2	6	1	1	12	12	2	1	8	14	28	40	68
TE	3	0	0	0	0	0	1	0	1	3	1	0	12	11	0	2	15	20	33	36	69
BE	1	3	0	0	0	2	1	0	2	1	0	0	7	8	0	1	17	31	28	46	74
<b>Total:</b>	<b>108</b>	<b>70</b>	<b>2</b>	<b>1</b>	<b>14</b>	<b>13</b>	<b>23</b>	<b>7</b>	<b>80</b>	<b>63</b>	<b>25</b>	<b>2</b>	<b>254</b>	<b>171</b>	<b>1</b>	<b>30</b>	<b>495</b>	<b>415</b>	<b>1018</b>	<b>791</b>	<b>1809</b>

**Post Graduate: 2018-19**

Branch	SC		ST		DT/VJ		NT1(B)		NT2(C)		NT3(D)		OBC		SBC		OPEN		Total		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
<b>Computer Engineering</b>																					
ME-I	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	1	3	4
ME-II	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	4	4
<b>Digital System</b>																					
ME-I	0	1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	4	4
ME-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1
<b>Design Engineering</b>																					
ME-I	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	5	1	7	1	8
ME-II	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	4	1	5
<b>Energy Engineering</b>																					
ME-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	2
ME-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Structural Engineering</b>																					
ME-I	2	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	12	1	15	3	18
ME-II	1	1	0	0	0	0	0	0	1	1	0	0	1	2	0	0	5	5	8	9	17
<b>Total:</b>	<b>5</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>11</b>	<b>38</b>	<b>25</b>	<b>63</b>
<b>Gross Total:</b>	<b>113</b>	<b>73</b>	<b>2</b>	<b>1</b>	<b>15</b>	<b>13</b>	<b>23</b>	<b>7</b>	<b>83</b>	<b>66</b>	<b>25</b>	<b>22</b>	<b>257</b>	<b>178</b>	<b>17</b>	<b>30</b>	<b>521</b>	<b>426</b>	<b>1056</b>	<b>816</b>	<b>1872</b>

**Under Graduate: Year: 2017-2018**

Branch	SC		ST		DT/VJ		NT1(B)		NT2(C)		NT3(D)		OBC		SBC		OPEN		Total		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
<b>Computer Engineering</b>																					
FE	4	4	0	0	0	1	1	0	1	2	0	1	8	8	1	1	15	15	30	32	62
SE	5	5	0	0	0	1	0	2	4	2	1	0	9	5	1	2	13	24	33	41	74
TE	1	4	0	0	0	1	1	1	0	1	0	1	8	5	0	2	18	24	28	39	67
BE	4	5	0	0	0	0	0	1	2	5	2	0	3	14	0	2	12	22	23	49	72
<b>Electronics &amp; Telecommunication</b>																					
FE	0	1	0	0	0	0	0	0	1	0	1	0	8	6	2	0	30	24	51	32	83
SE	4	1	0	0	0	0	1	2	5	9	0	5	19	15	0	2	34	44	63	78	141

TE	6	5	0	0	0	1	0	2	5	1	1	1	9	27	1	3	25	53	47	102	14	9
BE	4	6	0	0	2	1	1	2	5	9	0	2	10	16	1	2	29	34	52	72	12	4
<b>Information Technology</b>																						
FE	4	3	0	0	0	1	0	1	3	2	2	1	10	11	1	0	8	9	28	28	56	
SE	5	1	0	0	1	0	0	0	1	4	1	0	11	11	0	1	13	21	32	38	70	
TE	2	5	0	0	0	2	1	0	4	0	0	0	8	9	0	1	15	29	30	46	76	
BE	2	3	0	0	0	0	1	0	0	6	1	0	12	9	1	0	8	22	25	40	65	
<b>Mechanical Engineering</b>																						
FE	7	0	0	0	2	1	1	0	0	1	1	0	14	1	3	1	22	4	50	8	58	
SE	9	0	1	0	1	0	0	0	1	2	1	0	18	4	1	1	24	5	56	12	68	
TE	9	1	0	0	0	0	2	0	3	0	0	0	12	5	2	2	37	5	65	13	78	
BE	7	1	1	1	1	0	0	0	4	2	1	0	14	5	0	0	26	5	54	14	68	
<b>Civil Engineering</b>																						
FE	5	3	0	0	2	1	1	0	3	1	0	1	9	5	1	1	24	7	45	19	64	
SE	4	5	0	0	0	0	2	0	7	0	1	1	11	3	0	0	25	13	50	22	72	
TE	7	3	1	0	0	1	0	0	0	2	2	3	15	4	0	3	21	9	46	25	71	
BE	6	4	0	0	2	0	2	1	3	2	0	1	6	6	0	0	19	14	38	28	66	
<b>Electrical Engineering</b>																						
FE	7	1	0	0	2	0	1	0	6	2	0	2	10	3	2	2	19	4	47	14	61	
SE	4	5	0	1	0	0	2	1	5	5	3	1	9	6	0	0	18	12	41	31	72	
TE	4	3	1	0	0	0	1	0	3	4	3	1	7	5	1	0	25	17	45	30	75	
BE	4	4	1	0	0	0	1	0	4	4	3	1	6	5	0	3	17	14	36	31	67	
<b>Total:</b>	<b>11</b>	<b>7</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>7</b>	<b>7</b>	<b>2</b>	<b>2</b>	<b>24</b>	<b>18</b>	<b>1</b>	<b>2</b>	<b>49</b>	<b>43</b>	<b>101</b>	<b>844</b>	<b>18</b>	<b>59</b>
<b>Post Graduate: 2017-18</b>																						
Branch	SC		ST		DT/V J		NT1(B)		NT2(C)		NT3(D)		OBC		SBC		OPEN		Total		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
<b>Computer Engineering</b>																						
ME-I	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	2	0	5	5	
ME-II	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	6	0	8	8	
<b>Digital System</b>																						
ME-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	
ME-II	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	3	3	
<b>Design Engineering</b>																						
ME-I	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	4	1	5	
ME-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Energy Engineering</b>																						
ME-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	
ME-II	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	3	0	3	
<b>Structural Engineering</b>																						
ME-I	1	1	0	0	0	0	0	0	1	1	0	0	1	2	0	0	5	5	8	9	17	
ME-II	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5	2	5	3	8	
<b>Total:</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>17</b>	<b>22</b>	<b>29</b>	<b>51</b>	
<b>Gross Total:</b>	<b>11</b>	<b>7</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>8</b>	<b>8</b>	<b>2</b>	<b>2</b>	<b>24</b>	<b>19</b>	<b>1</b>	<b>2</b>	<b>51</b>	<b>44</b>	<b>103</b>	<b>873</b>	<b>19</b>	<b>10</b>
<b>Under Graduate: Year: 2016-2017</b>																						
Branch	SC		ST		DT/V J		NT1(B)		NT2(C)		NT3(D)		OBC		SBC		OPEN		Total		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		

	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	al				
<b>Civil Engineering</b>																									
FE	3	4	1	0	1	0	1	0	7	0	0	1	10	1	1	0	22	6	46	12	58				
SE	8	3	2	0	1	1	0	1	0	2	3	3	13	4	1	2	21	10	49	26	75				
TE	6	4	0	0	2	0	2	1	3	2	0	1	7	6	0	0	17	14	37	28	65				
BE	9	3	0	0	0	0	2	0	4	2	1	1	12	5	1	0	28	8	57	19	76				
<b>Mechanical Engineering</b>																									
FE	8	2	0	0	1	0	0	0	2	2	1	0	14	2	2	0	19	4	47	10	57				
SE	10	2	0	0	0	0	1	0	3	0	0	0	12	6	1	1	33	6	60	15	75				
TE	7	1	1	1	1	0	0	0	4	2	1	0	12	5	0	0	25	5	51	14	65				
BE	9	3	1	0	1	0	2	0	2	0	1	0	11	3	0	0	33	8	60	14	74				
<b>Electrical Engineering</b>																									
FE	3	6	0	1	1	0	2	1	5	3	2	1	6	6	0	0	12	8	31	26	57				
SE	3	4	1	0	0	0	1	0	3	4	3	1	10	6	1	1	20	17	42	33	75				
TE	5	3	1	0	0	0	1	0	4	4	1	1	3	6	0	3	16	14	31	31	62				
BE	6	5	0	0	0	0	0	0	3	2	1	1	9	5	1	0	27	9	47	22	69				
<b>Electronics &amp; Telecommunication</b>																									
FE	0	0	0	0	0	0	1	2	1	6	0	0	17	10	0	1	31	32	50	51	101				
SE	7	6	0	0	3	2	0	1	8	10	1	0	10	27	1	4	19	52	49	102	151				
TE	2	6	0	0	2	1	1	2	3	9	0	2	9	15	1	3	28	32	46	70	116				
BE	5	9	0	1	1	3	0	1	2	5	3	3	7	16	1	2	32	46	51	86	137				
<b>Computer Engineering</b>																									
FE	3	3	0	0	0	1	0	2	3	0	0	1	9	5	1	1	14	19	30	32	62				
SE	2	6	0	0	0	1	1	1	0	2	0	1	6	6	0	3	19	27	28	47	75				
TE	1	4	0	0	0	0	0	1	2	5	2	0	3	15	0	2	12	22	20	49	69				
BE	3	6	0	0	1	2	0	1	3	2	3	0	6	8	1	1	15	25	32	45	77				
<b>Information Technology</b>																									
FE	5	1	0	0	0	0	1	0	0	3	1	0	13	4	0	1	14	16	34	25	59				
SE	1	3	0	0	0	2	2	0	4	0	0	0	8	10	1	1	15	31	31	47	78				
TE	0	4	0	0	0	0	1	0	0	8	0	0	10	9	1	0	9	24	21	45	66				
BE	3	1	1	0	1	0	0	0	1	7	0	2	3	11	0	1	10	29	19	51	70				
<b>Total:</b>	<b>109</b>	<b>89</b>	<b>8</b>	<b>3</b>	<b>16</b>	<b>13</b>	<b>19</b>	<b>4</b>	<b>67</b>	<b>80</b>	<b>24</b>	<b>19</b>	<b>220</b>	<b>191</b>	<b>15</b>	<b>27</b>	<b>491</b>	<b>464</b>	<b>969</b>	<b>900</b>	<b>1869</b>				
<b>Post Graduate: 2016-17</b>																									
<b>Computer Engineering</b>																									
ME-I	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	6	0	8	<b>8</b>				
ME-II	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	2	4	2	7	<b>9</b>				
<b>Digital System</b>																									
ME-I	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	3	<b>3</b>				
ME-II	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	1	5	2	8	<b>10</b>				
<b>Design Engineering</b>																									
ME-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>				
ME-II	2	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	7	0	<b>7</b>				
<b>Energy Engineering</b>																									
ME-I	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	3	0	<b>3</b>				
ME-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	<b>2</b>				
<b>Structural Engineering</b>																									
ME-I	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	5	2	6	3	<b>9</b>				

ME-II	0	0	0	0	0	0	0	0	3	1	0	0	1	0	1	1	5	1	10	3	13
<b>Total:</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>7</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>18</b>	<b>21</b>	<b>31</b>	<b>33</b>	<b>64</b>
<b>Gross Total:</b>	<b>111</b>	<b>89</b>	<b>8</b>	<b>3</b>	<b>16</b>	<b>13</b>	<b>19</b>	<b>5</b>	<b>74</b>	<b>84</b>	<b>24</b>	<b>19</b>	<b>223</b>	<b>197</b>	<b>16</b>	<b>28</b>	<b>509</b>	<b>485</b>	<b>1000</b>	<b>933</b>	<b>1933</b>

- Number of applications received during last two years for admission under Management Quota : 2020-2021 - 161  
2019-2020 - 108  
2018-2019 - 198
- Number of Admitted in 2020-21 : 37

#### 10.11. Admission Procedure

Mention the admission test being followed, name and address of the Test Agency and its URL (Website)

- MHT-CET : <http://www.dtemaharashtra.gov.in/mhtcet2018/index.html>
- JEE Main : <https://jeemain.nic.in/webinfo/Public/Home.aspx>

Number of seats allotted to different Test Qualified candidate separately (AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test)

- DTE through MHT-CET (65%)
- DTE through JEE (15%)
- Institute Level through MHT-CET (20%)
- TFWS (5%)
- J&K & GOI Over and above seats (As per Competitive Authority)
- EWS( 10%)

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

Last date of request for applications	02/02/2021 upto 5 pm
Last date of submission of applications	02/02/2021 upto 5 pm
Dates for announcing final results and waiting list	03/02/2021 @ 10 am
Date for acceptance by the candidate	03/02/2021 11 am to 5 pm
Last date for closing of admission	05/02/2021 11 am to 5 pm.
Starting of the Academic session	06/02/2021

- The waiting list shall be activated only on the: Admission against vacant seats, if any, will be considered after this round strictly on merit basis.
- The policy of refund of the fee, in case of withdrawal, shall be clearly notified : In case of cancellation of the admission, refund of the fee as per Information Brochure Page no. 27 of Government of Maharashtra & State Common Entrance Test Cell, Mumbai

#### 10.12. Criteria and Weightages for Admission

- Describe each criterion with its respective weightages i.e. Admission Test, marks in qualifying Examination etc.**

Admissions in Institutional Quota and vacant seats after CAP.- The Director or Principal of the institution shall carry out the admissions for these seats in the following manner. -

- A. Admissions shall be made in a transparent manner and strictly as per the Inter-Se-Merit of the Candidates who have applied to the Competent Authority for verification of documents and then to the Institution.
- B Information brochure or prospectus of the Institution which specifies rules of admission should be published well before the commencement of the process of admission. All the information in the brochures should also be displayed on the Institution's website.
- C Institution shall invite applications by notifying schedule of admission and the number of seats in each course to be filled by the institution, by advertisement on the website of the institution. Aspiring Candidates fulfilling the eligibility criteria as notified by the Government and specified by the appropriate authority, from time to time, shall apply to the Principal or Director of the respective institution for admission at the Institution level as provided in rule 3(4)(b) and shall be filled in on the basis of Inter-Se-Merit prepared by following the procedure specified in 8(3).
- D The institution after verification of all required documents shall prepare and display the Inter-Se-merit lists of the Candidates to be filled in at the institution level, in the Institutional Quota and Supernumerary Quota of OCI / PIO, Foreign National, Children's of Indian workers in Gulf Countries along with the vacant seats after CAP, on the notice board and shall publish the same on the website of the institution.
- E The Minority or Non-Minority institution intending to surrender the Institutional Quota (in part or full) of specified courses to the CAP shall communicate two days before the display of seat matrix of CAP Round I and the same shall be allotted as per the rules of CAP. The Institutes shall not be allowed to surrender Institutional quota seats thereafter All the admissions and cancellations shall be updated instantly through online system.
- F If any CAP seat remains or becomes vacant after the CAP Rounds, then the same shall be filled in by the Candidate from the same Category for which it was earmarked during the CAP. Further if the seats remain vacant then the seats shall be filled on the basis of Inter-Se-Merit of the applicants.

**Mention the minimum level of acceptance, if any**

- I The Candidate should be an Indian National;
  - II Passed HSC or its equivalent examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry or Biotechnology or Biology or Technical Vocational subjects, and obtained at least 50% marks (at least 45% marks, in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only) in the above subjects taken together and The Candidate should have appeared in all the subjects in MHT-CET 2018 and should obtain non zero score in MHT-CET 2018.
- Or
- II Passed Diploma in Engineering and Technology and obtained at least 50% marks (at least 45% marks, in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only);

- **Mention the cut-off levels of percentage and percentile score of the candidates in the admission test For the last three years**

Sr. No.	Branch	2020-21		2019-20		2018-19	
		UG	PG	UG	PG	UG	PG
1	Civil	2.80		6.57	0.48	39/200	3.26
2	Mechanical	3.79		2.08	---	48/200	8.87 / 7.19
3	Electrical	2.09		3.19	---	30/200	44/200
4	E&TC	5.69		0.98	9.33	46/200	3.33
5	Computer	7.06		6.14	2.67	39/200	3.26
6	IT	13.58		0.97	---	34/200	77/200

- **Display marks scored in Test etc. and in aggregate for all candidates who were admitted**

There is no any Test on Institute Level. Admissions shall be made in a transparent manner and strictly as per the Merit of the Candidates who have applied to the Institution. While filling these seats the preference shall be given to the Maharashtra State Candidature Candidates on the basis of Inter-Se-Merit.

**10.13 . List of Applicants**

- List of candidate whose applications have been received along with percentile/percentage score 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

**Under Graduate (UG):**

Merit No	Application ID	Name of the Candidate	Caste / Category	CET	JEE
				Total (200)	Score
1	EN20129034	Taware Raj Ranjeet	OPEN	92.50	70.51
2	EN20163124	Pagale Tejas Dilip	OPEN	89.69	23.94
3	EN20204174	Pawar Mrudula Sambhaji	OPEN	89.42	47.55
4	EN20202003	Deshpande Vishal Vijay	OPEN	88.75	29.01
5	EN20203007	Kshirsagar Nikita Anil	OBC	88.40	
6	EN20154231	Bhapkar Jaydatta Ravindra	OPEN	87.28	
7	EN20145414	Taware Ranjit Suyash	OPEN	87.22	
8	EN20160981	Sapkal Kunal Nitin	OBC	86.56	70.28
9	EN20196935	Aditi Mahesh Bhagat	OPen	86.09	
10	EN20163264	Jadhav Om Ganesh	OPEN	85.98	69.86
11	EN20147222	Barge Sayali Balasaheb	OPEN	85.83	32.74
12	EN20137351	Sahuji Sanika Nirmal	OPEN	84.70	65.85
13	EN20198334	Nere Abhijeet Gokuldas	OPEN	84.70	
14	EN20119650	Yogansh Gopalrao Wagh	OPEN	84.58	51.81
15	EN20174008	Dande Shivaraj Santosh	OBC	84.58	
16	EN20138041	Bankar Harshada Nitin	OBC	84.39	62.57
17	EN20180762	Dhawan Samruddhi Vishwas	EWS	83.77	70.04
18	EN20227422	Dhumal Sarthak Rajendra	OPEN	82.80	68.71
19	EN20132884	Mohammed Johar Pathariya	OPEN	82.80	
20	EN20164678	Yash Nimish Padhye	OPEN	82.28	
21	EN20141472	Aishwarya Kate	OPEN	82.10	
22	EN20126761	Lembe Sangram Pradip	EWS	82.09	71.30
23	EN20204389	Muskan Shaikh	OPEN	81.73	
24	EN20157781	Kharavane Lakshmi Arjun	OBC	81.50	76.72
25	EN20144996	Desai Yash Rahul	Open	80.13	
26	EN20180602	Pawar Prathamesh Mahesh	OPEN	80.48	61.80
27	EN20112165	Davale Atharv Milind	OBC	80.07	
28	EN20195665	Malusare Rani Sambhaji	OPEN	78.97	81.53
29	EN20163792	Pawar Pratiksha Sanjay	OPEN	78.10	
30	EN20210919	Borate Sweta	OBC	78.03	

31	EN20138804	Chaudhari Anand Sunil	OPEN	77.46	82.51
32	EN20114923	Shaikh Abujar Sameer	OPEN	77.38	40.77
33	EN20122866	Zurunge Vaishnavi Pradip	OBC	77.26	50.22
34	EN20178493	Kshirsagar Neha Anil	OBC	76.99	
35	EN20143886	Pophale Samarth Anil	OPEN	76.11	55.61
36	EN20177372	Raut Abhishek Rajendra	OBC	76.02	54.52
37	EN20158686	Khodade Suyash Vikas	OBC	75.97	38.61
38	EN20169906	Yashwant Patil	OPEN	75.55	56.77
39	EN20198908	Nikam Prajwal Annaso	OPEN	74.96	
40	EN20113200	Nangare Deepali Vishwas	OPEN	74.85	66.17
41	EN20117676	Jadhav Rutuja Vinayak	OPEN	74.34	80.44
42	EN20137701	Modi Sneha Sanjay	OPEN	74.16	
43	EN20202256	Jadhav Vijayraje Chandrakant	OPEN	73.91	78.37
44	EN20136387	Bobade Apurva Vikas	OPEN	73.55	60.27
45	EN20209379	Shinde Sarthak Govind	EWS	73.44	44.31
46	EN20111933	Date Anish Charudatta	OPEN	73.39	32.05
47	EN20149553	Pawar Vaibhav Sanjay	OPEN	73.31	
48	EN20178973	Jagdale Swaraj Mahendra	Open	73.30	
49	EN20126839	Dalavi Neelanjan Nandkumar	OBC	73.26	42.43
50	EN20152185	Chabukswar Rushikesh Dattatray	SC	72.90	58.38
51	EN20202691	Chavan Atharva Udaysinh	OPEN	72.69	
52	EN20112086	Barate Ganesh Dattatray	EWS	72.58	45.78
53	EN20207201	Nigade Prathamesh Dipak	EWS	69.76	
54	EN20114936	Mathapati Amod Yogesh	OPEN	69.45	
55	EN20179374	Dhembare Ranjitsinh Dnyandeo	OBC	68.84	65.78
56	EN20180503	Waghchoude Harshada Pravin	OBC	68.84	70.50
57	EN20150916	Chaudhari Swaraj Ramesh	OPEN	68.40	
58	EN20214653	Wable Mangesh Sharad	SEBC	68.03	
59	EN20175880	Kulkarni Rishikesh Suhas	OPEN	68.03	44.31
60	EN20115767	Gadhawe Sairaj Makarand	OPEN	68.00	44.41
61	EN20124456	Ranmode Sandeep Ramesh	EWS	66.79	27.54
62	EN20201260	Chavan Aditya Pradip	OPEN	66.53	64.10
63	EN20206657	Nevase Omkar Atul	OBC	64.01	

64	EN20114787	Mulani Arshad Ayyub	OBC	63.70	31.98
65	EN20221625	Nikita Ram Pawar	EWS	63.40	
66	EN20153770	Rupali Paliwal	OPEN	63.36	
67	EN20147925	Pandit Anish Ajay	OBC	63.36	31.76
68	EN20170529	khalate Ronit sandip	SEBC	63.13	16.85
69	EN20113717	Borawake Soham Dhananjay	OBC	62.89	
70	EN20163658	Kumbhar Avdhoot Rajendra	OBC	62.75	25.16
71	EN20160762	Alate Amey Sameer	OPEN	61.40	30.06
72	EN20126395	Suryawanshi Amey Vijay	OBC	60.58	48.53
73	EN20148021	Sujay Tanaji Shinde	OBC	59.49	60.61
74	EN20126945	Dhawan Vikesh Keshav	OPEN	59.49	
75	EN20133117	Bhuse Tejas Rahul	NT-2	59.45	57.03
76	EN20138526	Thorat Suraj Lavhaji	OPEN	59.32	22.80
77	EN20131983	Shinde Yadnyasen Sangram	OPEN	58.76	47.03
78	EN20195714	Ranaware Sakshi Netaji	SEBC	58.76	1.93
79	EN20129733	Patil Nilambari Vijay	SEBC	58.63	10.52
80	EN20177002	Bhapkar Devika Balasaheb	OPEN	57.82	25.50
81	EN20120983	Rede Shreyas Santosh	OPEN	57.64	
82	EN20143231	Pawar Samiksha Santosh	NT-1	57.01	48.53
83	EN20209634	Waghmare Vaibhavi Vikas	OBC	55.32	44.25
84	EN20164169	Lokhande Suraj Dhirajkumar	OBC	54.52	9.13
85	EN20197836	Kadam Abhay Ramdas	OPEN	54.52	71.41
86	EN20140032	Patane Atharva Manoj	OPEN	53.63	
87	EN20203666	Paliwal Kalyani Kailas	OPEN	53.63	
88	EN20217058	Katkar Siddhiraj Nitin	OPEN	53.51	70.38
89	EN20143416	Rayate Darshan Vijayshinh	OPEN	52.93	45.35
90	EN20249800	Ghorphade Divya Vinod	Open	52.45	
91	EN20164596	Mohite Vishwatej Manoj	OPEN	52.01	
92	EN20127640	Gathe Dhruvakshi Deepak	OBC	51.20	
93	EN20196514	Mulani Sameer Firoj	OBC	51.20	
94	EN20195845	Malusare Pramod Pandurang	OPEN	50.81	80.54
95	EN20125208	Pannase Kapil Rameshwar		50.43	
96	EN20155171	Lawand Aastha Ravindra	OPEN	50.15	45.69

97	EN20149462	Jadhav Vishakha Sanjay	NT-1	49.79	
98	EN20208860	Youraj Dadasaheb Gulame	OPEN	49.79	29.74
99	EN20220309	Shinde Rutuja Anandrao	OPEN	49.79	37.26
100	EN20205727	Korade Kunal Kakasaheb	OPEN	46.79	42.75
101	EN20203192	Pawar Rachana Nandkumar	OBC	46.40	
102	EN20127258	Bhalerao Sai Rajendra	OPEN	46.39	
103	EN20149211	Dhok Rajnandan Rajaram	OBC	46.34	22.96
104	EN20175629	Kakade Om Santosh	OPEN	45.79	42.36
105	EN20177801	Khatal Ramchandra Balaso	NT2	43.41	
106	EN20179504	Kumbhar Sahil Santosh	OBC	43.32	
107	EN20178353	Farande Prasad Bharat	OBC	43.32	
108	EN20175449	Mirgane Aakanksha Manoj	OPEN	42.60	47.33
109	EN20168146	Jadhav Tejas Shankar	OPEN	41.40	
110	EN20145324	Inamdar Imran Faruk	OPEN	41.40	
111	EN20146027	Duchal Harshad Shahaji	EWS	40.72	62.74
112	EN20117447	Jadhav Pratik Avinash	OPEN	40.16	
113	EN20149027	Ghorpade Vaishnavi Rahul	EWS	39.95	76.76
114	EN20123364	Jagtap Anuja Lalaso	OPEN	39.67	17.54
115	EN20117718	Chavan Rajdeep Sharad	OPEN	38.32	21.57
116	EN20185289	Mulani Yasar Harun	OBC	38.24	17.44
117	EN20195420	Kawade Swaraj Rajesh	SEBC	37.72	
118	EN20203355	Mutke Prajwal Rajendra	OPEN	36.80	47.82
119	EN20110503	Baravkar Mayur Mansing	OBC	35.01	
120	EN20135671	Nashikkar Rishi Niraj	OBC	33.28	6.72
121	EN20131633	Salunkhe Abhishek Vinayak	SEBC	32.69	34.83
122	EN20127027	Hagir Aditya Dilip		31.53	
123	EN20119334	Atole Payal Bajirao	NT2	31.34	14.59
124	EN20225478	Shruti Ghadage	OPEN	31.17	70.92
125	EN20161155	Mohite Aditya Sharad	EWS	29.49	30.39
126	EN20183081	Garud Pranav Jaywant	OPEN	28.54	37.26
127	EN20133507	Maid Gauri Satish	OBC	28.54	61.80
128	EN20176957	Ghode Shashikant Kalyan	SC	28.54	
129	EN20114580	Pawar Sumit Shahaji	OPEN	28.17	

130	EN20184318	Joshi Ashutosh Suresh	OPEN	26.55	
131	EN20150962	Jadhav Rushikesh Ajitrao	EWS	26.07	50.25
132	EN20147188	Shinde Rutika Mahadev	EWS	26.07	45.79
133	EN20182518	Chavan Manohar Vijay	OPEN	26.07	40.78
134	EN20201784	Vinay Sonwane	OBC	23.50	
135	EN20201599	Pawar Sangram Arun	EWS	22.05	
136	EN20140772	Pawar Krushna Ganesh	OBC	19.71	
137	EN20140674	Bhongale Sanika Manojkumar	OBC	19.48	
138	EN20121665	Gaikwad Yash Ramesh	SEBC	19.30	39.01
139	EN20171307	Nevase Kshitij Nanaso	OBC	18.89	
140	EN20135490	Kharade Hrushikesh Bharat	OPEN	16.92	57.03
141	EN20123813	More Trisha Anil	OPEN	16.78	
142	EN20169995	Kshetri Darshan Shankar	OPEN	15.05	
143	EN20153510	Suryawanshi Abhishek Mahadev	OBC	14.79	40.77
144	EN20125881	Gholap Suraj Sanjay	SEBC	14.74	
145	EN20167984	Jadhav Tushar Vilas	OPEN	14.26	54.52
146	EN20171969	Pawar Harshada Umesh	OPEN	13.58	30.43
147	EN20155313	Pawar Omkar Sadashiv	OPEN	10.31	
148	EN20129522	Khot Aditya Sanjay	OBC	9.74	76.01
149	EN20209771	Inamdar Onkar Anand	OPEN	8.85	56.59
150	EN20174902	Patil Aditya Dattatray	OPEN	8.72	
151	EN20144343	Jagtap Madhav Sudhakar	EWS	8.72	10.50
152	EN20130035	Taware Jay Ranjeet	OPEN	7.07	8.65
153	EN20183428	Abhinav Gadhave	OBC	7.07	45.35
154	EN20226251	Pawar Nikita Achyut	OPEN	5.39	
155	EN20135964	Bobade Aditya Vikas	OPEN	2.63	10.42
156	EN20129998	Dhale Vishal Dhananjay	NT2	2.10	
157	EN20110036	Prince Raj	OBC		58.21
158	EN20166692	Mehta Ranjankumar Ruplal Prasad	OPEN		41.14
159	EN20261599	Jagtap Sayali Shamrao	Open		29.22
160	EN20111286	Chetan Dnyaneshwar Kakade	EWS		8.03
161	EN20249265	Khande Dnyaneshwari Vikas	OPEN		75.16

**Post Graduate: (PG):**

Sr. No.	Application ID	General Merit No.	Branch for ME	Name	Gate Score
1	ME20604263	1	Civil (Structural Engineering)	GUJAR SNEHA SHIVKUMAR	19.89
2	ME20601722	2	Civil (Structural Engineering)	GHORPADE PRASAD SHRIKANT	17.13
3	ME20617489	3	Civil (Structural Engineering)	Deokate Amit Bajirao	15.17
4		4	Civil (Structural Engineering)	Akshata Ashok Burungule	14.85
5		5	Civil (Structural Engineering)	Gadhawe Sahil Dattatray	14.75
6		6	Civil (Structural Engineering)	Rashmi Bhosale	11.59
7	ME20617437	7	Civil (Structural Engineering)	SONAWANE PREETI DEEPAK	10.65
8	ME20602748	8	Civil (Structural Engineering)	JADHAV SNEHAL AJAY	10.29
9	ME20619605	9	Civil (Structural Engineering)	JACHAK AISHWARYA RAJARAM	9.96
10		10	Civil (Structural Engineering)	Anjali Shendge	9.63
11	ME20601087	11	Civil (Structural Engineering)	KHATKE RADHIKA HANUMANT	9.27
12	ME20617343	12	Civil (Structural Engineering)	OVEKAR ABHIJEET VIJAY	6.19
13	ME20617593	13	Civil (Structural Engineering)	SHINDE CHETAN SUBHASH	1.74
14	*ME20617593	14	Civil (Structural Engineering)	SHINDE CHETAN SUBHASH	18.76

#### 10.14 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)

Sr. No.	Name	Department	Nature of Work
01	Mr. Disale Anil Sukhdeo	First Year Engg.	Secretary/Coordinator
02	Mr. Raut Prashant Tukaram	Computer Engg.	Assistant Coordinator (FE)
03	Mr. Bhagwat Vishal Bapurao	Mech. Engg.	Assistant Coordinator (DSE)
04	Mrs. Kulkarni Jyoti Sachin	Electrical Engg	Assistant Coordinator (ME)
05	Dr. Sajjan Aparna Ganeshappa	First Year Engg.	Member
06	Mr. Sonawane Deepak Sitaram	First Year Engg.	Member
07	Mrs. Bhoite Gauri Gajendra	First Year Engg.	Member
08	Mr. Patil Anil Bhaurao	First Year Engg.	Member
09	Dr. Jadhav Nitin Appa	First Year Engg.	Member
10	Dr. Shelke Nitin Tukaram	First Year Engg.	Member
11	Mrs. Ghadage Supriya Shivaji	First Year Engg.	Member

12	Mr. Raut Prashant Tukaram	Computer Engg.	Member
13	Mr. Deshmukh Vikas U.	E. & TC. Engg.	Member
14	Mrs. Surwase Varsha Sunil	E. & TC. Engg.	Member
15	Mr. Kulkarni Jyoti Sachin	Electrical Engg	Member
16	Mr. Bhagwat Vishal Bapurao	Mech. Engg.	Member
17	Dr. Gawande Vipin Bhaskarrao	Mech. Engg.	Member
18	Mr. Gaikwad Abhijit Mohanlal	Civil Engg.	Member
19	Mr. Raut Kaustubh Vijay	Civil Engg.	Member
20	Mr. Wagh Sachin Vitthal	System Officer	Member
21	Mr. Bhosale Vaibhav Vasantrao	Lab. Technician	Member
22	Mrs. Jagtap Kusumanjali Prashant	Lab Asst.	Member
23	Mrs. Jagtap Sonali Nilesh	Lab Asst.	Member
24	Mr. Nitve Natu Namdeo	Assistant Workshop Suptt.	Member
25	Mr. Sutar Dhananjay Uday	Workshop Instructor	Member
26	Mr. Shendge Sadashiv Dattatraya	Workshop Instructor	Member
27	Mr. Kadhane Sudam Kisan	Turner	Member
28	Mr. Nimbalkar Ganesh Dhondiram	Lab. Technician	Member
29	Mr. Jagtap Nandakumar Vishwnath	Lab. Assistant	Member
30	Mr. Ovekar Prakash Dasharath	Lab Attendant	Member
31	Mr. Vhargar Bramhdev Dagadu	Assistant	Member
32	Mr. Kale Chandrakant Dinkar	Assistant	Member

- **Score of the individual candidate admitted arranged in order of merit**

List as per below (List of candidate who have been offered admission)

- **List of candidate who have been offered admission**

**Under Graduate(UG)**

Sr. No.	Branch	Application ID	Candidate Name	Category	Seat Type	Admission Date
1	Civil	EN20174902	PATIL ADITYA DATTATRAY	Open	IL	03/02/2021
2	Civil	EN20209634	WAGHMARE VAIBHAVI VIKAS	OBC	IL	03/02/2021
1	Mechanical	EN20178973	JAGADALE SWARAJ MAHENDRA	Open	IL	03/02/2021
1	Electrical	EN20249800	GHORPADE DIVYA VINOD	Open	IL	03/02/2021

2	Electrical	EN20125208	PANNASE KAPIL BASWESHWAR	OBC\$	IL	03/02/2021
1	Computer	EN20196935	BHAGAT ADITI MAHESH	Open	ACAP	03/02/2021
2	Computer	EN20136387	BOBADE APURVA VIKAS	Open	ACAP	05/02/2021
3	Computer	EN20183428	ABHINAV GADHAVE	OBC	IL	03/02/2021
4	Computer	EN20133117	BHUSE TEJAS RAHUL	NT 2 (NT- C)	IL	03/02/2021
5	Computer	EN20150916	CHOUDHARI SWARAJ RAMESH	Open	IL	03/02/2021
6	Computer	EN20127027	HAGIR ADITYA DILIP	OBC	IL	03/02/2021
7	Computer	EN20133507	MAID GAURI SATISH	OBC	IL	03/02/2021
8	Computer	EN20198334	NERE ABHIJEET GOKULDAS	Open	IL	03/02/2021
9	Computer	EN20180602	PAWAR PRATHAMESH MAHESH	Open	IL	03/02/2021
10	Computer	EN20170529	RONIT SANDIP KHALATE	Open	IL	03/02/2021
11	Computer	EN20137351	SAHUJI SANIKA NIRMAL	Open	IL	03/02/2021
12	Computer	EN20160981	SAPKAL KUNAL NITIN	OBC	IL	03/02/2021
13	Computer	EN20225478	SHRUTI GHADAGE	Open	IL	03/02/2021
14	Computer	EN20126395	SURYAWANSHI AMEY VIJAY	OBC	IL	03/02/2021
1	IT	EN20137701	MODI SNEHA SANJAY	Open	ACAP	03/02/2021
2	IT	EN20127640	GATHE DHHRUVAKSHI DEEPAK	OBC	IL	03/02/2021
3	IT	EN20175629	KAKADE OM SANTOSH	Open	IL	03/02/2021
4	IT	EN20123813	MORE TRISHA ANIL	Open	IL	03/02/2021
5	IT	EN20140032	PATANE ATHARVA MANOJ	Open	IL	03/02/2021
6	IT	EN20171969	PAWAR HARSHADA UMESH	Open	IL	03/02/2021
7	IT	EN20220309	SHINDE RUTUJA ANANDRAO	Open	IL	03/02/2021
1	AIDS	EN20146027	DUCHAL HARSHAD SHAHAJI	Open	ACAP	04/02/2021
2	AIDS	EN20261599	JAGTAP SAYALI SHAMRAO	Open	ACAP	03/02/2021
3	AIDS	EN20135671	RISHI NIRAJ NASHIKKAR	Open	ACAP	03/02/2021
4	AIDS	EN20148021	SUJAY TANAJI SHINDE	Open	ACAP	04/02/2021
5	AIDS	EN20180503	WAGHCHOUDE HARSHADA PRAVIN	OBC	ACAP	03/02/2021

6	AIDS	EN20110503	BARAVKAR MAYUR MANSING	OBC	IL	03/02/2021
7	AIDS	EN20135490	KHARADE HRUSHIKESH BHARAT	Open	IL	03/02/2021
8	AIDS	EN20155171	LAWAND AASTHA RAVINDRA	Open	IL	03/02/2021
9	AIDS	EN20203666	PALIWAL KALYANI KAILAS	Open	IL	03/02/2021
10	AIDS	EN20153770	RUPALI PALIWAL	Open	IL	03/02/2021
11	AIDS	EN20131983	SHINDE YADNYASEN SANGRAM	Open	IL	03/02/2021

List of Candidate admitted to PG

**Post Graduate(PG)**

Sr. No.	Application ID	General Merit No.	Branch for ME	Name	Gate Score
1	ME20601992	4	Structural Engineering	BURUNGALE AKSHADA ASHOK	14.85
2	ME20619605	9	Structural Engineering	JACHAK AISHWARYA RAJARAM	9.96
3	ME20617343	12	Structural Engineering	OVEKAR ABHIJEET VIJAY	6.19
4	ME20618638	14	Structural Engineering	PADAR BHUSHAN BABAN	
5	ME20618695	6	Structural Engineering	BHOSALE RASHMI PRAKASHRAO	11.59
6	ME20617489	3	Structural Engineering	DEOKATE AMIT BAJIRAO	15.17
7	ME20616978	5	Structural Engineering	GADHAVE SAHIL DATTATRAY	14.75
8	ME20617593	13	Structural Engineering	SHINDE CHETAN SUBHASH	1.74

- **Waiting list of the candidate in order of merit to be operative from the last date of joining of the first list candidate.**
- Institution Merit list is generated by Student merit and admission given to student by Merit. application forms and information brochures are to be obtained from the college office and may also be downloaded from this website
- Completed application forms should be submitted on or before the notified date.
- Merit list will be notified on the college notice board as well as online.
- Candidates provisionally selected for admission should appear before the Admission Committee with parents/guardians.
- Details waiting list is as above.
- **List of the candidate who joined within the date, vacancy position in each category before operation of waiting list**

Sr. No.	Branch	Sanctioned Intake	Institute Level Quota	Actually Admitted	Vacant Inst. Quota
1	CIVIL	60	12	02	10
2	MECH	60	12	01	11
3	ELECT.	60	06	02	04
4	ENTC	60	00	0	00
5	COMP	60	12	14	00
6	IT	60	06	07	00
7	AIDS	60	06	11	00
	<b>Total</b>	<b>420</b>	<b>54</b>	<b>37</b>	<b>25</b>

### 10.15 Information of Infrastructure and Other Resources Available

#### 10.15.1 Information of Infrastructure

Number of Class Rooms and size of each	21 (66 Sq.M.)
Number of Tutorial rooms and size of each	5 (33 Sq.M.)
Number of Laboratories and size of each	56 (66 Sq.M.)
Number of Drawing Halls with capacity of each	01 (Capacity-100 Seats)
Number of Computer Centers with capacity of each	01 (Capacity-67 Seats)
Central Examination Facility, Number of rooms and capacity of each	Yes (70)
Barrier Free Built Environment for disabled and elderly persons	Yes
Occupancy Certificate	Yes
Fire and Safety Certificate	Yes
Hostel Facilities: Boys Hostel Boys Hostels (A - Capacity 273 Students) Boys Hostels (B - Capacity 150 Students) Boys Hostels(C - Capacity 198 Students) Boys Hostels (D - Capacity 490 Students) Separate Dining Hall for Each Boys Hostel Girls Hostel Photo Girls Hostel (A - Capacity - 408 students) Girls Hostel (B - Capacity - 420 students) Girls Hostel (C - Capacity - 186 students) Girls Hostel (D - Capacity - 490 students) Girls Hostel (E - Capacity - 128 students) Separate Dining Hall for Each Girls Hostel	Yes

#### 10.15.2 Library

- Number of Library books/ Titles/ Journals available (program-wise)
- List of online National/ International Journals subscribed
- E- Library facilities

S r. N o.	Course	Total Number of Titles	Total Number of volumes	Number of Journals		
				Print		Online
				Nationa l	Internation al	International
<b>Under Graduate:</b>						

1	Computer Engineering	2065	5279	6	-	IEEE ASPP+ Springer Nature1+ ASCE
2	Information Technology	1140	3145	6	-	
3	Elect. & Telecom. Engineering	1764	5695	7	-	
4	Mechanical Engineering	1687	4701	6	-	
5	Civil Engineering	1247	4200	7	-	
6	Electrical Engineering	703	1724	6	-	
7	AI&DS	-	-	6	-	
8	General Science & Engineering	788	2221	6	-	
9	General books	2039	2451	-	-	
<b>Post Graduate:</b>						
1	Computer Engineering	187	428	3	3	
2	Electronics – Digital System	208	340	3	3	
3	Mechanical – Energy Eng.	134	175	3	3	
4	Mechanical – Design Eng.	193	251			
5	Civil - Structural Eng.	159	251	6	6	
Total		12314	30861	65	15	407

- Library facilities:**

VPKBIET Library plays a vital role in acquiring, organizing and disseminating knowledge. It has put in place policies and procedures, systems and services and ambience that facilitate knowledge required for understanding and strengthening of subjects in Engineering. Our Library has an excellent collection of books & Journals and other reading materials. It has a matching collection of CDROMs. Library operations are totally automated using commercial library management software

There is adequate infrastructure to meet its requirements and provides access to the collection through Online Public Access Catalogue (OPAC). It uses Bar-code Technology for transactions of books. The Library has a pool of 15 machines connected to internet for surfing worldwide Knowledge Ocean, with good number of CD-ROMs along with books.

Various important professional journals are accessible to staff and students. Library and Reading Hall has capacity to accommodate 1/3 of total student's strength.

During Preparation Period and examinations, over 350 students take advantage of Library reading room facilities.



**Services:**

- ☞ Book Bank scheme
- ☞ Internet facility
- ☞ Home issue of Books
- ☞ Drop Box System for Book return
- ☞ Online Renewal of books
- Carrel (overnight) issue
- Online reservation of book
- Notification of every transaction with library
- ☞ Reading Hall
- ☞ Photocopy services
- ☞ Online Public Access Catalogue

**E- library facilities**

We have an official Membership of IEEE (Institute of Electrical and Electronics Engineers), ASCE (American Society of Civil Engineers), and Springer Nature E-Journals Resource for the year 2021. In these databases, we are having 407 peer-reviewed journal access with back files from 2000 for all branches & from our Campus.

We are also a member of DELNET (Developing Library Network). It helps the library users for an exhaustive search for literature and gets the required documents on loan through the library.

Our institute has a membership in the National digital library

### 10.15.3 -Laboratory and Workshop -

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

Dept	Name of the Laboratory	Lab /Major Equipment
First Year	<b>LANGUAGE LAB</b>	PC's=24, S/W Sever = 1, LCD Projector=1, Projector Screen = 1, Gols, Tell Me more Software
	<b>PHYSICS LAB</b>	CRO, Spectrometer, Ultrasonic Interferometer, Thomson's Expt. Kit, Basic Laser Kit, Ph Meter, Conductivity meter
	<b>CHEMISTRY LAB</b>	Electric Oven, Muffle Furnace, Water Distillation Plant, Water bath, Digital Balances, Colorimeter
	<b>BASIC ELECTRICAL ENGINEERING LAB</b>	"1.BEE Experimental set up (2 nos) 2. Home elect. wiring Training system -1"
	<b>SYSTEMS IN MECHANICAL ENGINEERING LAB</b>	Steam engine with Boiler, Safty valves, Cochran Boiler, Gear Models, Boiler Models, Charts Flywheel, Belt friction apparatus
Civil Engineering	<b>ENVIRONMENTAL ENGINEERING LAB-CIVIL</b>	Auto clave, BOD incubator, Spectro-photometer, Dust sampler, Distillation unit.
	<b>TRANSPORTATION ENGINEERING LAB-CIVIL</b>	Abrasion testing, Ductility test, Bitumen extractor, Marshal stability.
	<b>ENGINEERING MECHANICS LAB-CIVIL</b>	Flywheel, Belt friction apparatus,
	<b>SURVEYING &amp; ENGG. GEOLOGY LAB-CIVIL</b>	1" & 20 " Theodolite, Total station. Rock and Mineral specimens
	<b>STRENGTH OF MATERIALS LAB-CIVIL</b>	Tile abrasion testing machine, Torsion testing machine, Flexural testing machine, Bend rebind on st
	<b>GEOTECHNICAL ENGINEERING</b>	Triaxial test, CBR test, Permeability apparatus, sand UCT, DSRT.
	<b>CONCRETE TECHNOLOGY</b>	Compression Testing Machine, Core cutter, Flexural Strength machine.
	<b>BASIC CIVIL ENGINEERING</b>	Models of Staircase, Door, Trusses, Foundation etc.
	<b>PG RESEARCH LAB -Civil</b>	Computers i3: 21 Qty, SAP 2000, AutoCAD, ETAB, MATLAB, Gram++,staad pro
	<b>FLUID MECHANICS LAB-CIVIL</b>	Wind Tunnel, Impact of jet apparatus
Mechanical Engineering	<b>HEAT TRANSFER AND REFRIGERATION AND AIR CONDITIONING LAB</b>	Rac Lab-Vapor Absorption Test Rig Ice Plant test Rig, Air Conditioning Test Rig & H.T.Lab-Thermal Conductivity , Emissivity Measurement Apparatus, Natural and Forced Convection Apparatus, Pin Fin Apparatus.
	<b>METALLURGY AND QUALITY CONTROL LAB</b>	Rockwell & Brinell Hardness Tester, Muffle Furnace, Magnetic Particle tester, Double Disc Polishing Machine, Binocular Microscope (400X), Profile Projector, Floating Carriage Machine.
	<b>THERMODYNAMICS LAB &amp; FLUID MECHANICS LAB</b>	Bomb Calorimeter, Gas Calorimeter, Abels Flash Point Apparatus, Penske Martins Flash Point Apparatus & Electrical Analogy Apparatus, Hydraulic Bench Model, Hydrostatic Bench, Reynolds Apparatus, Modified Bernoulli's Theorem Apparatus.
	<b>MECHATRONICS AND AUTOMATION LAB-MECH</b>	Pneumatic Trainer. Heat Exchanger Hydraulic Trainer, Level & Flow Control Trainer, LVDT.
	<b>MATERIAL TESTING LAB</b>	Universal Testing Machine (400KN), Izod Impact Tester
	<b>DYNAMICS OF MACHINERY AND THEORY OF MACHINERY LAB</b>	Universal Vibration Machine, Motorized Gyroscope, Static and Dynamics Balancing ,Whirling speed of Shaft.

	<b>STEAM POWER PLANT LAB</b>	Power Plant with Boiler Inclusive of Steam turbine, Generator, Condenser, feed Pump, Throttling unit, Separator,
	<b>TURBO MACHINES LAB</b>	Pelton Wheel Set-up, Francis Turbine Set-up, Centrifugal Pump Set-up, Impact of Jet Apparatus, Gear Pump Test Rig , Reciprocating Pump Test Rig
	<b>MECHANICAL CAD LAB</b>	Computers i3 -25 Quantity, i5: 21 Quantity, Software's- ANSYS, Solid Works, Solid Edge, Master CAM, Auto Cad, MSC-Nastran.
	<b>PG I C ENGINE LAB</b>	VCR Engine Test Rig, Computerized Diesel and Petrol Engine Test Rig, Exhaust Gas Analyzer
	<b>PG VIBRATION AND MECHANICS LAB</b>	Strain Indicator & Line Voltage Adapter, Universal Testing Machine(1000kN) with Extensometer, Vibration
	<b>Workshop (MS)-UG</b>	Lathe Machines, Drilling Machine, Milling Machine, and Shaping Machines with adequate accessories.
	<b>Workshop - Fitting, Carpentry</b>	Carpentry, Machine Shop, Welding Shop, Plastic Molding, Black Smithy & Tin Smithy, Fitting & Plumbing.
<b>Electrical Engineering</b>	<b>ELECTRICAL MACHINES II</b>	Three Phase Induction Motor - 5 kW, Three Phase Alternator- 3.5 kVA, Three Phase Synchronous Motor set
	<b>BASIC ELECTRICAL ENGINEERING</b>	Trolley mounted BEE set up (2 nos), Home electrical wiring Training system
	<b>ELECTRICAL MACHINES I AND EMI LAB</b>	DC Shunt Motor 5 HP DC shunt Gen 3 KW Single Phase Transformer 3 KVA DC Series Motor 2 HP Three Ph,
	<b>COMPUTER LAB (ELECT.) &amp; MICROCONTROLLER LAB</b>	"25 Computers MATLAB (Users) PSIM ETAP SPJ-STK-PIC evaluation board (10) Ultra lite PIC evaluation
	<b>MATERIAL SCIENCE &amp; HIGH VOLTAGE ENGINEERING</b>	Schering Bridge, Gauss and Tesla Meter, BH Curve Tracer ,100 kV AC/DC test set, Rod Gap & Sphere Gap Apparatus
	<b>POWER SYSTEM &amp; SWITCH GEAR PROTECTION LAB</b>	Single & 3 phase Transmission line trainer, Protective Relay Trainer, Over Current Test, Merz Price Protection of generator
	<b>NETWORK ANALYSIS ,POWER ELECTRONICS/ POWER QUALITY &amp; PECD LAB</b>	"1. VI characteristics of SCR, DIAC, TRIAC 2. IGBT Characteristics trainer. 3. 1 phase half wave ,Kit to verify network theorems, Z & Y parameters, RLC Circuits, CRO,3-phase voltage source inverter, Oscilloscope with function generator, 3 phase full converter, power quality analyzer.
	<b>PLC AND SCADA LAB &amp; CONTROL SYSTEM LAB</b>	PLC kit, SCADA Software, Synchros-Modelling TF, AC servo motor, PI, PID Controller, Compensator
	<b>NETWORK ANALYSIS and ELECTRICAL WORKSHOP</b>	Kit to verify network theorems, Z & Y parameters, RLC Circuits, CRO
<b>E&amp;TC Engineering</b>	<b>SOLID STATE DEVICES</b>	Oscilloscope(20 mhz),Function generator, DC power supply, Digital multimeter, Experimental kit
	<b>DIGITAL ELECTRONICS</b>	Oscilloscope(20 mhz),Function generator, Dc power supply, Digital multimeter, Experimental kit
	<b>RF AND MICROWAVE</b>	Microwave test bench ,Optical power meter, distortion factor meter, Fiber optics kits setup, oscilloscope, Satellite communication trainer.
	<b>COMMUNICATION SYSTEMS</b>	"Agilent spectrum analyzer ,mixed oscilloscope, wave form generator,6&1/2 multimeter, logic analyzer, antenna trainer system
	<b>AUDIO VIDEO AND MECHATRONICS LAB</b>	Dso (100mhz, 70 mhz) , Wi-Fi smart LED TV, LCR –Q meter , audio lab experiment kit, mechatronics experiment kit set, , Db meter.
	<b>LINEAR IC LAB</b>	Oscilloscope(20 mhz),Function generator, dc power supply, digital multimeter, power electronics experimental kit

	<b>VLSI AND EMBEDDED SYSTEM LAB</b>	Universal Trainer Model MXUK-240-00 with 50k Gate Vertex FPGA Board,, DSP VLSI Trainer- Mechatronics Test Equipment & SPARTAN-III Kit with stepper motor,VLSI design Software- 1-Xilinx-ISE Series US ISE Version 8.2 i , 2-Mentor Graphics (50 user)- HEP-1: Back End : IC Nanometer Design HEP2: Front End, 3-MICROWIND3 & VLDST Trainer kit, Embedded system- ARM Board LPC2148 KITS, SPJ-STK -PIC Evolution Board, MSP 430 Modules, PCI based DSP data acquisition card,
	<b>SIGNAL PROCESSING LAB.</b>	Dell computer desktops( core i3 ) 3110, DSP starter kit,TMS320c6713 DSP kit, 6748 DSP kit , proteus vsm software,
	<b>PG RESEARCH LAB</b>	computers ASUS d50010mt i5-4460 desktop, MATLAB 19b software ,
	<b>PROJECT LAB</b>	vector analyzer ( 14 Ghz), CST studio suit version 2014 (soft), Robotics kit ,IIT Delhi mic kit, DSO 100mhz, ECG head set, Zed board, , universal programmer, raspberry pi boards, Software defined Radio kit, Ganesyas 2 kit, Embedded vision system kit, 3D brain activity window kit, Data acquisition system.
<b>Computer Engineering</b>	<b>DATA BASE SYSTEM LAB-COMPUTER</b>	Computer :- HP202 G2 DESKTOP i3 Printer :- Epson LQ-1150-II Projector :- EPSON Projector EBX-29
	<b>COMPUTER CENTER LAB-COMPUTER</b>	Computer :- HP Elite 7100 MT i5 HP Pro 3330 MT i3 Dell Optiplex TM 3010DT N-Series i5 Printer :- LIPI 6805 Line Printer EPSON LQ 2190 Epson LQ-1150-II Projector :- Epson EB-W05
	<b>ADVANCED NETWORK LAB-COMPUTER</b>	<b>Computer:</b> 1) DELL OPTIPLEX 390 DT, i3,4 GB RAM, 500 GB HD,18.5 " Monitor 2) HP - 202G@, i5, 4 GB RAM, 500 GB - GH, 18.5"- Monitor <b>Printer:</b> HP Printer , Model- PROMFP M-132a <b>Projector:</b> Data Projector Make Plus Model U5-512h
	<b>OPERATING SYSTEM LAB-COMPUTER</b>	<b>Computer:</b> DELL OPTIPLEX 3010D, i3-3220,4 GB RAM, 500 GB HD,18.5 " Monitor, USB-keyboard and mouse <b>BegaleBone:</b> BB black Rev. C Development platform <b>Arm Cortex:</b> BB black Rev. C Development platform <b>Printer:</b> HP Laser Jet 1020 1 Qty, HP Printer , Model-PRO M104a
	<b>PROJECT LAB-COMPUTER</b>	<b>Computer:</b> ASUS D510MT, i5,8 GB RAM, 500 GB HDD, USB-keyboard, Mouse
	<b>PARALLEL COMPUTING LAB-COMPUTER</b>	Computer :- DELL OPTIPLEX -390 i3 Printer :- Epson LQ-1150-II 1 Projector :- Mitsubhishi ES-220U
	<b>PG LAB-COMPUTER</b>	<b>Computer:</b> ASUS D510MT, i5,8 GB RAM, 500 GB HDD, USB-keyboard, Mouse
<b>Information Technology</b>	<b>DIGITAL LABORATORY-2</b>	33 Computers, one 48 Port switch, Internet facility.
	<b>NETWORK LABORATORY</b>	20 Computers, HP laser printer, one 24-Port switch, Networking devices, LAN Tester, Creeping tools, 8-Port switches, Access Point, Internet facility.
	<b>SOFTWARE LABORATORY</b>	20 Computers, one 24 Port switch, Internet facility.
	<b>SOFTWARE DEVELOPMENT LAB.</b>	45 Computers, Three 24-Port switches, Internet facility.
	<b>INFORMATION TECHNOLOGY LAB.</b>	20 Computers, one 24-Port switch, Kinect sensor, Digital camera, Lipi make printer, HP Laser printer, Internet facility.

- List of Experimental Setup in each Laboratory/ Workshop

Dept.	Name of the Laboratory	List of Experimental Setup
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<b>First Year</b>	<b>LANGUAGE LAB</b>	Practice sessions on Listening Skills, Practice on Word Puzzles in Tell Me More Software, Drill on Speaking Skills with the emphasis on acceptable pronunciation.
	<b>BASIC ELECTRICAL ENGINEERING LAB</b>	1. Trolley based experimental setup ( R-L, R-C, and R-L_C loads, Star-Delta, Theorems, Kirchoff's Laws and Resistance Temperature Detector (RTD)). 2. Home Electrical Wiring Training system (Switches, Sockets, Holder, wiring and Lights (FL, CFL, LEDs, and Energy Meters)
	<b>SYSTEMS IN MENGINEERING LAB</b>	All experiments are study experiments. No experimental set up for this lab.
	<b>PHYSICS LAB</b>	Newton's Ring (4)  Plane diffraction grating for determination of unknown wavelength (3)  Ultrasonic Interferometer for the determination of compressibility of liquid (2)  Determination of band gap of a given semiconductor (2)  Solar cell characteristics, measurement of Voc, Isc, fill factor (5)  Laser based experiment. ( determination of no of lines / cm of a grating ) (1)  Determination of absorption coefficient of sound of given material (1)  Half Shade Polarimeter (1)  Law of Malus (1)  Brewster's law (1).
	<b>CHEMISTRY LAB</b>	Determination of Hardness of water by EDTA method (Titration -glassware) (12)  Determination of Alkalinity of water sample ( Titration - glassware) (12)  Determination of Dissociation constant of weak acid (acetic acid) using pH-meter (6)  To determine maximum wavelength of absorption of CuSO <sub>4</sub> / FeSO <sub>4</sub> , verify Beer's law and find unknown concentration in the given sample (2)  Titration of mixture of weak acid and strong acid with strong base using conductometer (1)  Determination of molecular weight / radius of macromolecule Polystyrene / Polyvinyl Alcohol by viscosity measurements (glassware) (12)  Proximate analysis of coal. (Oven and Muffle furnace - 1 each) (5)  Preparation of nickel coating on copper metal using both methods, Electroplating and Electroless plating (1).

Civil Engineerin g	<b>ENVIRONMENTAL ENGINEERING LAB-CIVIL</b>	Microcontroller Conductivity/TDS Analyzer BOD Incubator UV Spectro –photometer Digital Flame photometer
	<b>TRANSPORTATION ENGINEERING LAB-CIVIL</b>	Ductility testing machine Bitumen extraction apparatus Impact test apparatus Los Angeles abrasion testing machine Marshall stability test apparatus Universal penetrometer
	<b>ENGINEERING MECHANICS LAB- CIVIL</b>	Paralleled forces apparatus (simply supported/ overhang beam type) Meter rule Bar pendulum 100 cm Torsion pendulum Pulley block 8 cm dia. Universal force table
	<b>SURVEYING &amp; ENGG. GEOLOGY LAB-CIVIL</b>	Plane table for civil survey Electronic total station Transit Theodolite Prismatic compass  Minerals specimen Rocks specimen
	<b>STRENGTH OF MATERIALS LAB- CIVIL</b>	Flexural testing machine Tile abrasion testing machine Torsion testing machine Shear test on steel bar Bend and rebend test on steel.
	<b>GEOTECHNICAL ENGINEERING</b>	Direct shear test apparatus Triaxial test apparatus Permeability test apparatus Core cutter apparatus
	<b>CONCRETE TECHNOLOGY</b>	Compression Testing Machine Vibrating machine Vee-Bee consistometer Compaction apparatus
	<b>BASIC CIVIL ENGINEERING</b>	Digital planimeter Model of bricks King post truss model Queen post truss model Model of foundation
	<b>PG RESEARCH LAB -Civil</b>	Computers i3: 21 Qty, SAP 2000, AutoCAD, ETAB, MATLAB, Gram++
	<b>FLUID MECHANICS LAB-CIVIL</b>	Wind Tunnel, Tilting flume
Mechanica l Engineerin g	<b>HEAT TRANSFER AND REFRIGERATION AND AIR CONDITIONING LAB</b>	1. Determination of heat transfer coefficient in natural convection. 2. Determination of heat transfer coefficient in forced convection. 3. Determination of thermal conductivity of metal rod. 4. Determination of thermal conductivity of composite wall. 5. Determination of Stefan-Boltzmann Constant. 6. Determination of temperature distribution, fin efficiency in forced convection. 7. Test on ice plant test rig, 8. Test on vapour absorption refrigeration test rig. 9. Test on air conditioning test rig.

	<p align="center"><b>METALLURGY AND QUALITY CONTROL LAB</b></p>	<ol style="list-style-type: none"> <li>1. Calibration of measuring instruments. Example – Dial gauge &amp; Vernier.</li> <li>2. Verification of dimensions and geometry of given components using Mechanical /Pneumatic.</li> <li>3. Error determination of linear / angular measuring instruments and determination of linear and angular dimensions of given part, (MSA: Gauge R &amp; R), comparator.</li> <li>4. Machine tool alignment testing on machine tool – Lathe machine.</li> <li>5. Demonstration of surfaces inspection using optical flat, To measure major diameter, minor diameter and pitch of screw thread using Profile.</li> <li>6. Measurements of thread parameters using Floating Carriage diameter measuring Machine.</li> <li>7. Demonstration of specimen preparation for microscopic examination.</li> <li>8. Drawing of Microstructure of steels of various compositions,</li> <li>9. Heat treatment of Plain Carbon Steel and determination of relative hardness,</li> <li>10. Drawing of Microstructure of Heat Affected Zone in Welding.</li> </ol>
	<p align="center"><b>THERMODYNAMICS LAB &amp; FLUID MECHANICS LAB</b></p>	<ol style="list-style-type: none"> <li>1. Determination of flash point temperature of given liquid fuel.</li> <li>2. Determination of pour point and cloud point temperature of give oil.</li> <li>3. Determination of calorific value of given solid fuel using Bomb calorimeter.</li> <li>4. Determination of calorific value of given gaseous fuel using gas calorimeter.</li> <li>5. Pressure measurement using any two types of manometer.</li> <li>6. Determination of viscosity of liquids and its variation with temperature.</li> <li>7. Determination of metacentric height of floating object.</li> <li>8. Laminar and Turbulent flow by Reynolds’s apparatus.</li> <li>9. Draw flow net using electrical analogy apparatus.</li> <li>10. Verification of modified Bernoulli’s equation.</li> <li>11. Calibration of Venturimeter.</li> <li>12. Calibration of V-notch.</li> <li>13. Determination of minor losses due to pipe fittings.</li> </ol>
	<p align="center"><b>MECHATRONICS AND AUTOMATION LAB-MECH</b></p>	<ol style="list-style-type: none"> <li>1. Measurement of displacement using LVDT characteristics.</li> <li>2. Real Time Temperature / Flow Control using PID Control system.</li> <li>3. Experiments to be done on hydraulic trainer.</li> <li>4. Experiments to be done on pneumatic trainer.</li> <li>5. Test on pressure relief valve/flow control valve.</li> <li>6. Test on linear /rotary actuator.</li> </ol>
	<p align="center"><b>MATERIAL TESTING LAB</b></p>	<ol style="list-style-type: none"> <li>1. Tensile Test for ductile &amp; brittle material,</li> <li>2. Shear test of Ductile material on Universal Testing Machine.</li> </ol>

	<p align="center"><b>DYNAMICS OF MACHINERY AND THEORY OF MACHINERY LAB</b></p>	<ol style="list-style-type: none"> <li>1. To study manufacturing of gear using gear generation with rack as a cutter and to generate involute profile,</li> <li>2. Speed and torque analysis of epicyclic gear train to determine, holding torque</li> <li>3. To verify Cam jump phenomenon,</li> <li>4. To determine the active gyroscopic couple on a spinning disc and verify the gyroscopic effect,</li> <li>5. To determine experimentally the mass moment of inertia of a flat bar using bifilar suspension method.</li> <li>6. To determine experimentally the mass moment of inertia of a disc using trifilar suspension method.</li> <li>7. Balancing of wheel / rotor on computerized balancing machine.</li> <li>8. To determine the natural frequency of damped vibration of single degree freedom system and to find it's damping coefficient.</li> <li>9. To obtain frequency response curves of single degree freedom system of vibration for different amount of damping.</li> <li>10. To verify natural frequency of torsional vibration of two rotor system and position of node.</li> <li>11. To determine natural frequency of transverse vibration of beam using vibration analyzer. (Vibration Measurement by FFT analyzer).</li> </ol>
	<p align="center"><b>STEAM POWER PLANT LAB</b></p>	<ol style="list-style-type: none"> <li>1. Determination of dryness fraction of steam,</li> <li>2. Trial on boiler to determine boiler efficiency, equivalent evaporation and Energy balance,</li> <li>3. Trial on steam power plant to determine plant efficiency</li> </ol>
	<p align="center"><b>TURBO MACHINES LAB</b></p>	<ol style="list-style-type: none"> <li>1. Study and trial on Pelton Wheel Set-up</li> <li>2. Study and trial on Francis Turbine Set-up</li> <li>3. Study and trial on Centrifugal Pump Set-up</li> <li>4. Verification of Impulse Momentum Principle by Impact of Jet Apparatus</li> <li>5. Gear Pump Test Rig</li> <li>6. Reciprocating Pump Test Rig</li> </ol>
	<p align="center"><b>CAD LAB</b></p>	<ol style="list-style-type: none"> <li>1. Static stress concentration factor calculation for a plate with center hole subjected to axial loading</li> <li>2. Stress and deflection analysis of any machine component consisting of 3-D elements using FEA,</li> <li>3. Modal analysis of any machine component using FEA software.</li> <li>4. 2D Forced convection problem using FEA software,</li> <li>5. Elasto-plastic analysis of a tensile test specimen using FEM software,</li> <li>6. Contact stress analysis using FEM software tension using FEA software</li> </ol>

	<b>PG I C ENGINE LAB</b>	<ol style="list-style-type: none"> <li>1. Morse Test on Multi cylinder Petrol/ Diesel engine for determination of Friction power.</li> <li>2. Variable load test on diesel engine to determine various efficiencies, SFC and Heat balance sheet.</li> <li>3. Test on variable compression ratio engine,</li> <li>4. Test on Positive Displacement Air Compressor,</li> <li>5. Demonstration of Exhaust Gas Analyzer</li> </ol>
	<b>PG VIBRATION AND MECHANICS LAB</b>	<ol style="list-style-type: none"> <li>1. Determine basic engineering properties such as E- Young's Modulus, <math>\nu</math>- Poisson's ratio, G- Shear modulus.</li> <li>2. To determine stress concentration factor in a tension like specimen having a circular hole at center.</li> <li>3. Experiment to determine deflections in a rectangular beam. Experiment to determine multi axial stresses in a hollow pressurized cylinder.</li> <li>4. Experiment to determine bending stresses in a Al-Steel Composite beam,</li> <li>5. Experiment to determine the buckling critical load in columns of various lengths.</li> <li>6. Experiment to determine stresses in a beam subjected to Dynamic load.</li> <li>7. Experiments to determine spring constant and natural frequency under different masses. Also to study the effect of initial conditions on natural frequencies.</li> <li>8. To determine mass moment of inertia of a complicated mass about its rotating axis and about its centroidal axis.</li> <li>9. Trifilar Disk to determine mass moment of inertia of automobile or airplane</li> </ol>
	<b>Workshop (MS)-UG</b>	<ol style="list-style-type: none"> <li>1. Manufacturing of any one assembly consisting of minimum two components and involving all the lathe operations,</li> <li>2. Manufacture of spur gear on milling machine using indexing head.</li> <li>3. Surface grinding using table grinder,</li> <li>4. Any one marketable assembly consisting of at least three components with tolerance involving use of lathe, drilling, milling, grinding and any additional machine tool or processes as per requirement.</li> </ol>

	<b>Workshop - Fitting, Carpentry,</b>	<ol style="list-style-type: none"> <li>1. Carpentry Job: Half Lap Joint (T, Dovetail),</li> <li>2. Job on TIG/ MIG/ Resistance welding,</li> <li>3. Welding: T Joint, Corner Joint and Lap Joint,</li> <li>4. Welding : Butt Joint,</li> <li>5. Sheet Metal (processes involving cutting, bending, punching and drawing)</li> <li>6. Metal Tray,</li> <li>7. T- Duct Joint,</li> <li>8. Manufacturing any one sheet metal component involving minimum three different operation (use dies and press).</li> <li>9. Fitting Job: T-Joint , V-Joint, Radius Fitting, Dovetail Fitting</li> </ol>
<b>Electrical Engineering</b>	<b>ELECTRICAL MACHINES II</b>	3 Ph induction motor setup, 3 Ph alternator setup, 3 Ph synchronous motor setup
	<b>BASIC ELECTRICAL ENGINEERING LAB</b>	BEE Experimental set up (2 nos), Home electrical wiring Training system
	<b>ELECTRICAL MACHINES I AND EMI LAB</b>	D.C. Series wound motor with brake load setup, 3 Ph induction motor and DC shunt generator setup, DC shunt motor and three phase alternator setup, AC Synchronous motor setup, Kelvin's double bridge With Galvanometer setup, Anderson's Bridge With Galvanometer setup, Displacement measurement By LVDT setup
	<b>COMPUTER LAB (ELECT.) &amp; MICROCONTROLLER LAB</b>	" ETAP Software Setup and 25 PC's.
	<b>MATERIAL SCIENCE &amp; HIGH VOLTAGE ENGINEERING</b>	Schering Bridge Setup, B-H Curve Setup, Thermocouple Setup, 100 mm Sphere gap Setup  High Voltage 100 kV AC and 100 kV DC Test Setup, Oil Test Setup, High Voltage Tester with Jig Setup
	<b>POWER SYSTEM &amp; SWITCH GEAR PROTECTION LAB</b>	Single Phase Transmission Line Training System Setup, Three Phase Transmission Line Training System Setup, Switchgear protective relay testing setup, Thermal over current relay setup, Percentage differential protection of transformer unit setup, Merz Price protection of Alternator unit setup, MCCB testing setup, Induction to digital overcorrect relay testing setup, MCB testing setup
	<b>NETWORK ANALYSIS ,POWER ELECTRONICS/ POWER QUALITY &amp; PECD LAB</b>	VI Characteristics of SCR, DIAC and TRIAC,IGBT Characteristics Trainer, Single Phase Half wave and Full wave Converter, Three Phase Converter, Single Phase and Three Phase AC Voltage Regulator, Single Phase PWM inverter Chopper fed DC series motor 1- $\phi$ half controlled drive 1- $\phi$ full controlled drive 3- $\phi$ full controlled drive 3- $\phi$ half controlled drive 3- $\phi$ voltage source inverter 20 Amp, Auto Transformer Three Phase Air cooled Enclosed Type
	<b>PLC AND SCADA LAB &amp; CONTROL SYSTEM LAB</b>	PLC kit, SCADA Software, Synchros-Modelling TF, AC servo motor, PI, PID Controller, Compensator

	<b>NETWORK ANALYSIS AND ELECTRICAL WORKSHOP</b>	Experimental setup to verify Norton's, Superposition, Reciprocity Theorems for AC and DC supply, Experimental Setup to verify Theremin's, Maximum power and Tillage's Theorems for AC and DC supply, Experimental setup for transient analysis of RC, RL and RLC circuits, Experimental setup to determine Z, Y, ABCD parameters of two port network
<b>E&amp;TC Engineering</b>	<b>SOLID STATE DEVICES</b>	<b>Electronic Circuit Experimental setup:</b> Study Complementary symmetry push pull Amplifier, FET Amplifier, MOSFET as a switch, current series feedback Amplifier, Design adjustable voltage regulator using voltage regulator IC, LC Oscillator
	<b>DIGITAL ELECTRONICS</b>	<b>Digital Circuits Experimental setup:</b> Design build and test 4 bit Adder, BCD to Excess three converter, Binary to BCD converter, synchronous counters, asynchronous counters, shift registers, universal shift registers Multiplexers and Demultiplexers, Encoders and decoders
	<b>RF AND MICROWAVE</b>	<b>Radiation and Microwave Techniques: Experimental setup</b> Study Dipole and horn Antenna performance, measure and plot Mode characteristics of Reflex Klystron, V-I characteristics of Gunn Diode, Measure and verify port characteristic of Microwave tees, Circulators, isolators, directional couplers, To measure wavelength of Microwave signal, To measure and Plot SWR for open short and matched termination, Measurements of S parameters, <b>Broadband Communication system Experimental Setup:</b> Measurements of Numerical Aperture of Fiber cable, measurement of attenuation of fiber cable, setup digital link, setup audio and video satellite link.
	<b>COMMUNICATION SYSTEMS</b>	<b>Analog communication Experimental setup:</b> AM Modulator and demodulator, DSB&SSB modulator and Demodulator, study AM and FM spectrum, FM Modulator and Demodulator, verification of Sampling Theorem, Study Antenna performance. <b>Digital communication Experimental setup:</b> Study PCM and Demodulation. Delta modulation and Demodulation, PSK modulation and demodulation, FSK modulation and Demodulation, QPSK modulation and Demodulation, study Line Codes.
	<b>AUDIO VIDEO AND MECHATRONICS LAB</b>	<b>Audio and Video Engineering experimental Setup:</b> Voltage and waveform analysis of color TV, Study Wi-Fi LED TV, Study Digital TV and pattern generator, Study HDTV, study simulation of audio video and image compression techniques, study audio system CD and MP3 Player, Study public address system, measure directivity pattern of Microphone and Loud Speaker, <b>Mechatronics Experimental Setup:</b> Servomotor position control using photo electric pickup, position and velocity measurement using encoder, Flow measurement, study data acquisition system, Interfacing of sensors, study hydraulic trainer, study pneumatic trainer,

	<b>LINEAR IC LAB</b>	<p><b>Integrated Circuits Experimental Setup:</b> Measure OPAMP parameters, Design and test Integrator, differentiator, Precision Rectifiers, Schmitt trigger, OpAmp Instrumentation Amplifier, 2bit DAC , 2bit ADC , Waveform generation</p> <p><b>Power Electronics Experimental Setup:</b> V-I characteristics of SCR and IGBT, Study SCR firing Circuits, Single phase Semi converter and full converter, Study Switching mode power Supply, Speed control of DC motor, study power factor improvement, overvoltage and overcurrent protection,.</p>
	<b>SIGNAL PROCESSING LAB</b>	<p><b>DSP and Signal system Experimental Setup:</b> Matlab 19b is available to conduct following experiments To verify the properties of DFT of signal, To find circular convolution of signals, to find Z transform and Inverse Z transforms, To study LPF, HPF and Butterworth filters , study IIR filters, study DCT and IDCT of signals, study Bandpass filters.</p>
	<b>VLSI AND EMBEDDED SYSTEM</b>	<p><b>Advanced Processor experimental Setup:</b> Interfacing LED to Embedded LPC 2148, Interfacing LCD embedded LPC 2148 to display image, interfacing GSM with embedded LPC2148 to send and receive messages and voice call, Interfacing GPS with Embedded LPC2148 to find current location, interfacing EEPROM with LPC2148 using I2C protocol, UART serial communication using LPC2148 , Real time audio capturing using DSP development kit.</p> <p><b>VLSI Design Technology Experimental Setup:</b> Design 4 bit ALU , XOR, OR , NOR gate using simulation softwares, Design FIFO memory, Interface Keypad with FPGA, Simulation of CMOS inverter, NOR, NAND gates, Simulation of Multiplexers, Simulation of SRAM cell, Simulation of D flip flops,</p>
	<b>PG RESEARCH LAB</b>	Computers Asus d50010mt I5-4460 Desktop, Matlab Software ,
	<b>PROJECT LAB</b>	<p><b>Experimental setup :</b> To measure S parameters of Antenna , Design and simulate the various types of Antenna, extract the ECG signal and processing, Design and Simulate AM, FM transmitters and Receivers, Interface various input and output devices to Embedded system, study data acquisition system, Study Robotics , study Raspberry Pi and Arduino based projects, Software defined Radio(SDR) USRP setup for Wireless Prototyping.</p>
<b>Computer Engineering</b>	<b>DATA BASE SYSTEM LAB- COMPUTER</b>	<ul style="list-style-type: none"> <li>● Study of Open Source Relational Databases : MySQL</li> <li>● Design and Develop SQL DDL statements which demonstrate the use of SQL objects such as Table, View, Index, Sequence, Synonym</li> <li>● Installation and Configuration of Web Application Servers Tomcat, Apache, Web Sphere, JBoss, GlassFish</li> <li>● Design and develop any suitable web application using HTML, CSS and XML in consultation of course instructor</li> <li>● Mini project on classification: Apply a-priori algorithm to find frequently occurring items from given data and generate strong association rules using support and confidence thresholds</li> </ul>

	<b>PROGRAMMING -LAB</b>	<ul style="list-style-type: none"> <li>● Implementation of S-DES</li> <li>● Implement C++ program for expression conversion as infix to postfix and its evaluation using stack based on given conditions.</li> <li>● Write C++ program for maintaining singly link list.</li> <li>● Write C++ program using stack to check whether given expression is well parenthesized or not.</li> <li>● Write an application using Raspberry-Pi /Beagle board to control the operation of stepper motor.</li> <li>● Installation and configuration of own Cloud</li> </ul>
	<b>ADVANCED NETWORK LAB-COMPUTER</b>	<ul style="list-style-type: none"> <li>● Setup a wired LAN using Layer 2 Switch and then IP switch of minimum four Computers. It includes preparation of cable, testing of cable using line tester, configuration machine using IP addresses, testing using PING utility and demonstrate the PING packets captured traces using Wire shark Packet Analyzer Tool.</li> <li>● Write a program using TCP sockets for wired network to implement</li> <li>● Design &amp; implementation of Parallel (OpenMP) algorithm for K - Nearest Neighbors Classifier</li> <li>● Apply a-priori algorithm to find frequently occurring items from given data and generate</li> <li>● Understanding the connectivity of Raspberry-Pi /Beagle board circuit with IR sensor.</li> <li>● Write an application to detect obstacle and notify user using LEDs.</li> </ul>
	<b>OPERATING SYSTEM LAB-COMPUTER</b>	<ul style="list-style-type: none"> <li>● Write a Java program to implement Banker's Algorithm</li> <li>● Implement UNIX system calls like ps, fork, join, exec family, and wait for process management (use shell script/ Java/ C programming).</li> <li>● Implement Threaded Binary Tree and perform inorder traversal on it. Analyze the time complexity of the same</li> <li>● Write a Java program which demonstrates the scope rules of the programming mechanism.</li> <li>● Implement the Heap/Shell sort algorithm implemented in Java demonstrating heap/shell data structure with modularity of programming language.</li> <li>● Design and develop custom Application (Mini Project) using Salesforce Cloud</li> </ul>

	<b>PROJECT LAB-COMPUTER</b>	<ul style="list-style-type: none"> <li>● Study of Raspberry-Pi, Beagle board, Arduino and other micro controller ( History &amp; Elevation)</li> <li>● Study of different operating systems for Raspberry-Pi /Beagle board. Understanding the process of OS installation on Raspberry-Pi /Beagle board</li> <li>● Study of Connectivity and configuration of Raspberry-Pi /Beagle board circuit with basic peripherals, LEDS.</li> <li>● Understanding GPIO and its use in program using temperature sensor.</li> <li>● Write an X86/64 ALP to accept five 64 bit Hexadecimal Numbers from user and store them in an array and display the accepted numbers</li> <li>● Write an X86/64 ALP to find the largest of given byte/word/Dword/64 bit numbers</li> <li>● Write an X86/64 ALP to perform multiplication of two 8-bit hexadecimal numbers. Use successive addition and add and shift method</li> </ul>
	<b>PARALLEL COMPUTING LAB-COMPUTER</b>	<ul style="list-style-type: none"> <li>● Implement a Lexical Analyzer using LEX for a subset of C. Cross check your output with Stanford LEX.</li> <li>● Implementation of Instruction Scheduling Algorithm.</li> <li>● Mini-Project 1: Implement POS tagging for simple sentences written Hindi or any Indian Language</li> <li>● Introduction of R programming, Installation and Usage</li> <li>● Write a Python program to build Hangman Game</li> </ul> <p>Case Study (Market Basket Analysis)</p>

	<b>PG LAB-COMPUTER</b>	<ul style="list-style-type: none"> <li>● Download a set of weather data from the Internet covering the temperature and atmospheric pressure over a four day period. Present the data using 2D and 3D plots, and so deduce if the weather conditions are trending either higher or lower over this four day period. (Possible web sites include <a href="http://www.bom.gov.au/climate/data/">http://www.bom.gov.au/climate/data/</a> and <a href="http://www.silkeborgvejret.dk/english/regn.php">http://www.silkeborgvejret.dk/english/regn.php</a>).</li> <li>● Statistical review: In your engineering discipline review a published paper which includes a statistical analysis. Write a brief report on the statistical methods used. Can you suggest an improved statistical analysis? Suggest some additional parameters that might have been measured during the data acquisition stage and so explain how you would analyze the total data set to deduce the influence (and statistical significance) of these additional measurements.</li> <li>● Ant Colony Algorithm: The Traveling Salesman Problem is a problem of a salesman who, starting from his hometown, wants to find the shortest tour that takes him through a given set of customer cities and then back home, visiting each customer city exactly once." Each city is accessible from all other cities.. Use ant colony algorithm for generating good solutions to both symmetric and asymmetric instances of the Traveling Salesman Problem. Use appropriate representation for graph and an appropriate heuristic that defines the distance between any two nodes of the graph. Use parallel approach to optimize solution</li> </ul>
<b>Information Technology</b>	<b>DIGITAL LABORATORY-2</b>	Operating Systems: Windows 7 (32 Bit), Ubuntu 16.04 LTS Application Software: Windows: Microsoft Office 2007,Adobe Reader 9, Matlab, Editplus, NetBeans, TASM, RIDE, Flash Magic, Mysql, Xampp, MongoDB, JAVA, Tablue, R, Rstudio, Weka, Snort, Wireshark Ubuntu: G++, GCC, Eclipse for Java, Hadoop, Hbase, Hive, OpenGL,Mysql, MongoDB, Lex & Yacc Tool, NetBeans
	<b>NETWORK LABORATORY</b>	Operating Systems: Windows 7 (32 Bit), Ubuntu 16.04 LTS Application Software: Windows: Microsoft Office 2007,Adobe Reader 9, Matlab, Editplus, NetBeans, TASM, RIDE, Flas Magic, Mysql, Xampp, MongoDB, JAVA, Tablue, R, Rstudio, Weka, Snort, Wireshark Ubuntu: G++, GCC, Eclipse for Java, Hadoop, Hbase, Hive, OpenGL,Mysql, MongoDB, Lex & Yacc Tool, NetBeans
	<b>SOFTWARE LABORATORY</b>	Operating systems: Windows 7 (32 Bit), Ubuntu 16.04 LTS Application Software: Windows: Microsoft Office 2007,Adobe Reader 9, Matlab, Editplus, NetBeans, TASM, RIDE, Flas Magic, Mysql, Xampp, MongoDB, JAVA, Tablue, R, Rstudio, Weka, Snort, Wireshark Ubuntu: G++, GCC, Eclipse for Java, Hadoop, Hbase, Hive, OpenGL,Mysql, MongoDB, Lex & Yacc Tool, NetBeans

<b>SOFTWARE DEVELOPMENT LAB.</b>	Operating systems: Windows 7 (32 Bit), Ubuntu 16.04 LTS Application Software: Windows: Microsoft Office 2007, Adobe Reader 9, Matlab, Editplus, NetBeans, TASM, RIDE, Flash Magic, Mysql, Xampp, MongoDB, JAVA, Tablue, R, Rstudio, Weka, Snort, Wireshark Ubuntu: G++, GCC, Eclipse for Java, Hadoop, Hbase, Hive, OpenGL, Mysql, MongoDB, Lex & Yacc Tool, NetBeans
<b>INFORMATION TECHNOLOGY LAB.</b>	<b>Operating Systems:</b> Windows 7 (32 Bit), Ubuntu16.04LTS <b>Application Software:</b> <b>Windows:</b> Microsoft Office 2007, Adobe Reader 9, Matlab, Editplus, NetBeans, TASM, RIDE, Flas Magic, Mysql, Xampp, MongoDB, JAVA, Tablue, R, Rstudio, Weka, Snort, Wireshark <b>Ubuntu:</b> G++, GCC, Eclipse for Java, Hadoop, Hbase, Hive, OpenGL, Mysql, MongoDB, Lex & Yacc Tool, NetBeans

#### 10.15.4- Computing Facilities:

- Internet Bandwidth Capacity: : **103 Mbps (1:1)**
- **Number and configuration of System:**

Sr. No.	Make & Model No.	Total Inward
2	Wipro Xeon Server	1
3	Wipro 2.8 GHz	25
4	IBM AIX Server	1
5	Wipro 3.4 GHz	04
6	Lenovo 2.8 GHz	59
7	Lenovo 3.4 GHz	08
8	Dell Vostro 430	2
9	Dell OptiPlex 980 i3	26
10	Dell OptiPlex 980 i3	24
11	Dell OptiPlex 390 i3	21
12	HP Pro 7100, Inter Core i5-	20
13	HP Pro 3330, Inter Core i3	15
14	Dell OptiPlex 390 DT, Intel Core i3	35
15	Desktops Dell OptiPlex (TM) 3010 DT i3	50
16	Desktops Dell OptiPlex (TM) 3010 DT i5	50
17	HP ProLiant ML110 (Server)	1
18	Dell PowerEdge R210 (Server)	1
19	HP 202 G2 MT Desktop i5	50
20	HP 202 G2 MT Desktop i3	40
21	Desktop ASUS Make D510MT i5	65
22	HP 406 G1 MT i5 Desktop	1
23	N Computing NL 300+ Think client	40
24	HP ProLiant DL 60 GN9 Server	2
25	Dell OptiPlex 3046 MT	25
26	ACER VERITON M200 - H410, i5,	45

- Total number of systems connected by LAN : **611**
- Total number of systems connected by WAN : **611**
- Department wise major license and open-source software's available:

Sr. No.	Name of the Dept.	Available Software Details
1	<b>Computer Engineering &amp; Information Technology</b>	Visual Studio Professional 2017, Visual Studio Professional 2019, Office 2007 Suites Office Professional Plus 2010 Office Professional Plus 2013 Office Professional Plus 2016 Office Professional Plus 2019 Office 365 Free A1 Plus for Student and Faculty Windows 10 Education Windows 10 Enterprise 2015 LTSC Windows 10 Enterprise 2016 LTSC Windows 10 Enterprise LTSC 2019 Windows 10 Pro / Windows 10 Pro for Workstations - Windows 10 Professional Windows 8.1 Enterprise Windows 8.1 Professional Windows 7 Enterprise Windows 7 Professional Windows HPC Server OS 2008 R2 Windows Server 2003 R2 Windows Server Enterprise 2008 R2 Windows Web Server 2008 R2 Windows Web Server 2012 R2 Windows Server 2016 Standard Windows Server 2019 Essentials Windows Server 2019 Standard
2	<b>Electronics and Tele Communication Engineering</b>	MATLAB Software (13 CD`s & 13 Manual, H/w lock) VLSI Design software Xilinx make - ISE Series - US ISE FND Ver 5.1 Micro-Cap 8 OrCAD Capture OrCAD Pspice A/D OrCAD Layout plus VLSI Design Software, Xilinx Make ISE Series US-ISE Version 8.2i DSP Application Software (System Generator for DSP) IE3D Super Structure Design or Software CST Studio Suite Version 2014 Proteus VSM Software Opti system V 13 Or Latest Software MATLAB 2020a with all Tools
3	<b>Electrical Engineering</b>	RS Logix 500 Software PSIM Software ETAP Auto CAD Electrical 2019 Free Educational License

4	<b>Mechanical Engineering</b>	Solid works Education Edition MSC Software MATLAB Mastercam X9 Educational Ansys Academic teaching introductory Intellicad Solid Edge V20 Classic  Auto CAD 2018 3 Years Free Educational License
5	<b>Civil Engineering</b>	GRAM ++ GIS Version 2.0, E Tubler For GIS Super Civil CD Q T Y R O A D S Super Real Valuation Steel 2007 R C F 2 D Fram Analysis Road Estimate R A F T Site Control Super Rate Analysis MATLAB Software Signal Processing Toolbox DSP System Toolbox Auto CAD 2018 3 Years Free Educational License STAAD pro Software
6	<b>General Science</b>	Goals British English Language Lab S/W Auto CAD 2018 3 Years Free Educational License
7	<b>Administration and Librarary</b>	Tally ERP9 Edu smart Sensys Easy Pay Shree Lipi Devanagari Universal Software E Campus College Library SLIM 21 Zoom Meet with Large Participants

- **Special purpose facilities available:**

- 1) 155 Mbps (1:1) Internet Leased Line connectivity from TATA Teleservices, Ltd. Maharashtra.

A) **Firewall:**

Sophos XG330 is using for to providing secure internet facility to all department's students, faculties, and laboratories. The Cyberoam firewall is tightly integrated with features like Application Visibility & Control, VPN (IPsec & SSL VPN), Intrusion Prevention System, Web Filtering, Bandwidth Management, Anti-Virus & Anti-Spyware, Anti-Spam, and Multiple Link Management to provide unified security also Cyberoam Firewall thus protects organizations from DoS, DDoS and IP Spoofing attacks.

B) **Servers:**

Different servers are using for various purposes like Firewall user ADS authentication, Server Clients license software, NPTEL Videos, Online examination, and Storage.

- Dell Power Edge R 210
- HP ProLiant ML110
- IBM AIX Server
- Wipro Xeon Server
- HP ProLiant DL 60

**C) Network Infrastructure:**

- All Faculty, Staff and Students are having personal internet login credential for surfing the institute internet facility.
  - All Faculty, Staff and Students are having personal Institute G Suite Email ID for official communication.
  - Institute has provided well maintains IT infrastructure to students, staff and faculties.
  - 24X7 dedicated Internet Leased Line facility provided through the wired as well as wireless connectivity to all Departments' students, faculties, and various computer laboratories and campus boys and girls hostels.
  - For providing Wired LAN and WAN connectivity using Single mode OFC, Multimode OFC and CAT 6 Wired connectivity to all Departments' various Computer laboratories, Faculty cabins and campus Girls' and boys' hostels using gigabit manageable HP, Cisco and D link switches. There Are total 57 Gigabit manageable and unmanageable HP, Cisco and D link switches are used.
  - For providing Wireless connectivity facility to all Departments' students, faculties, various computers laboratories and campus Girls' and boys' hostels are using D-Link, Airtight, Linksys, TP Link access points. There is total 145+ access points are used in the college and campus Girls and Boys hostels for delivering wireless access Facility.
  - Separate internet browsing center.
  - NPTEL Video Server
  - Zoom meeting large participant's license software
- **Major softwares tools available in the Departmet**

Sr. No.	Name of Department	List of softwares
1	<b>Mechanical Engineering</b>	<ul style="list-style-type: none"> <li>• Solid Works</li> <li>• Solid Edge</li> <li>• Auto CAD</li> <li>• Master CAM</li> <li>• MSC Nastran</li> <li>• ANSYS 13</li> <li>• Gate Tutor</li> </ul>
2	<b>Electrical Engineering</b>	<ul style="list-style-type: none"> <li>• Matlab</li> <li>• E-Tap</li> <li>• PLC ALLEN breadly _RS Logix 500</li> </ul>
3	<b>E. &amp; TC. Engineering</b>	<ul style="list-style-type: none"> <li>• MATLAB</li> <li>• Microwind 3</li> <li>• Xilinx ISE 8.2i</li> <li>• Mentor Graphic's EDA tools</li> <li>• Proteus</li> <li>• Optiwave</li> <li>• Code composer studio</li> <li>• Multisim</li> <li>• Gate Tutor</li> </ul>
4	<b>Civil Engineering</b>	<ul style="list-style-type: none"> <li>• Super Civil CD</li> <li>• SSF</li> </ul>

		<ul style="list-style-type: none"> <li>• QTY</li> <li>• ROADS</li> <li>• Super Real Valuation</li> <li>• RCF</li> <li>• 2D Frame Analysis</li> <li>• Road Estimate</li> <li>• RAF</li> <li>• GRAM++ GIS Version 2.0 E Tubler for GIS</li> <li>• ETABS and SAP 2000</li> <li>• MATLAB</li> <li>• STAAD pro</li> </ul>
5	<b>Computer Engineering</b>	<ul style="list-style-type: none"> <li>• Netbeans (JDK 1.8)</li> <li>• Eclipse</li> <li>• MongoDB</li> <li>• MySQL</li> <li>• Weka</li> <li>• Anaconda (Python Editors)</li> <li>• R-Studio</li> <li>• Weka</li> <li>• MATLAB</li> <li>• Open Source software on Ubuntu OS : gcc,g++, LibreOffice etc.</li> </ul>
6	<b>Information Technology</b>	<ul style="list-style-type: none"> <li>• C/C++</li> <li>• Java</li> <li>• Python2.7</li> <li>• Tensorflow &amp; Pytorch</li> <li>• R programming</li> <li>• Weka</li> <li>• MySQL</li> <li>• ASP.NET</li> <li>• Hadoop</li> <li>• Netbeans</li> <li>• Eclipse</li> <li>• MongoDB</li> </ul>
7	<b>General science Engineering</b>	<ul style="list-style-type: none"> <li>• Matlab</li> <li>• Tell me more</li> <li>• Auto CAD</li> </ul>

- **Social Media Cell:**

**INTRODUCTION:**

Vidya Pratishtan has been decided by the Competent Authority to Establish a MEDIA CELL in Vidya Pratishtan.

**ROLE:**

The role of the MEDIA CELL will be to foster community relations with internal stake holders through several media relation activities. It accomplished this through its regular corporate new-letters, engagement with print media and by facilitating institutes online presence across various platforms.

The cell will manage internal communication by reporting events, happenings and achievements to the administration, faculty and student community.

The MEDIA CELL will comprise of the following.

Sr. No.	Name	Designation
1	Dr. Bharat Pandharinath Shinde	Co-ordinator
2	Mrs. Kalpana Avinash Barawkar	Member
3	Mrs. Ragini Vijay Taware	Member
4	02 Student Representative (Male)	Member (To be detailed by the Co-ordinator)
5	02 Student Representative (Female)	

The MEDIA CELL will formulate a charter of duties and standing order Procedure and the same may be forwarded for the perusal of the Hon. Executive Committee.

## CO-ORDINATION AND INFORMATION

All institution will co-ordinate with the MEDIA CELL and inform about their activities of importance so that the same can be sent for publicity at regular basis. All may be taken into consideration that the said information (In English & Marathi) reaches the MEDIA CELL well in time and there is no delay. The information (In English & Marathi) should also be included and circulated in their institution's Website.

## CONCLUSION

It is a well – known fact that in the recent media has been playing a very important role in the promotion of the brand and publicity. It may also mentioned that proper care be adhered to while using the print Media and with discretion.

### 10.15.5 List of facilities available:

- **Games and Sports Facilities:**

#### **Indoor/ Outdoor Sports / Gymnasium facilities:**

A full fledge sports campus is developed on 20 Acres sports complex of Vidya Pratishthan. Olympic size running track, a well-developed cricket ground of football, tennis courts and Indian games facilities available with coach. Full fledge gymnasium for boys and girls each are available for indoor games with all the facilities. This facility is shared by four colleges of the institute.

The engineering college has its own playground where Volleyball, Basketball, Kho-Kho and Kabaddi facilities are available. Table tennis tables are provided in each hostel.

Last year 2000 students have taken the benefits of these grounds and facilities.

- **Extra-Curricular Activities**

#### **Cultural activities:**

year social annual gathering (Nabhangan) is organized every year . The show where students get a chance to explore their hidden talents on stage. Gathering is culmination of energetic extra-curricular activities like drama, dance, quiz, music, acting, fashion, art, painting, poetry and very special event “DINDI”.

Here students learn to handle socialized and organized events under the guidance of faculty coordinator, this makes them to be good leaders and team members achieving a common goal. This event imparts good managing skills and tasks solving ability to the students.

Almost all the students takes active part in one or the other event of the social activities.

For more details visit: <http://www.VPKBIET.org/pages/nabhangan.html>

- **National Service Scheme (NSS) activities:**

In India, the idea of involving students in the task of national service dates back to the times of Mahatma Gandhi, the father of the nation. The central theme which he tried to impress upon his student audience time and again, was that they should always keep before them, their social responsibility. The first duty of the students should be, not to treat their period of study as one of the opportunities for indulgence in intellectual luxury, but for preparing themselves for final dedication in the service of those who provided the sinews of the nation with the national goods & services so essential to society.



Advising them to form a living contact with the community in whose midst their institution is located, he suggested that instead of undertaking academic research about economic and social disability, the students should do "something positive so that the life of the villagers might be raised to a higher material and moral level". The post-independence era was marked by an urge for introducing social service for students, both as a measure of educational reform and as a means to improve the quality of educated manpower. The University Grants Commission headed by Dr. Radhakrishnan recommended introduction of national service in the academic institutions on a voluntary basis with a view to developing healthy contacts between the students and teachers on the one hand and establishing a constructive linkage between the campus and the community on the other hand.

**The main objectives of National Service Scheme (NSS) are:**

- i. Understand the community in which they work
- ii. Understand themselves in relation to their community
- iii. Identify the needs and problems of the community and involve them in problem-solving
- iv. Develop among themselves a sense of social and civic responsibility
- v. Utilize their knowledge in finding practical solutions to individual and community problems
- vi. Develop competence required for group-living and sharing of responsibilities
- vii. Gain skills in mobilizing community participation
- viii. Acquire leadership qualities and democratic attitudes
- ix. Develop capacity to meet emergencies and natural disasters and
- x. Practice national integration and social harmony

Vidya Pratishthan's Arts, Science and Commerce College, Kamalnayan Bajaj Institute of Engineering and Technology, Vasant Rao Pawar Law College jointly organized the special NSS residential camp in the adopted village, **Lakadi** during 17-23 Dec 2019. The total geographical area of village is 1309.72 hectares. It has a total population of 2,547 peoples. There are about 526 houses in village. Lakadi is 15 km away from Baramati. NSS aims at arousing social consciousness of the youth with an overall objective of personality development through community service. It enables students to participate in various programs of social service and national development and hence to help the community. This special camp was organized as per the consistent guidelines of SPPU, Pune. The Volunteers of the NSS Unit performed many other activities – Village Cleanliness, Tree Plantation, Literacy Awareness Importance of Health and Hygiene, Blood Donation Camp, Construction of CCT and repairs, Communal harmony, Village Survey, Street play etc.

225 NSS volunteers of Vidya pratishthan's Arts , Science and Commerce College, Vidya Pratishthan's Kamalnayan Bajaj Institute of Engg. & Technology, and Vidya Pratishthan's Vasant Rao Pawar Law College Vidyanagri, Baramati participated on the camp. 7 groups of students were formed for planning of everyday activities. Different names were assigned to each group in the names of fort build by Shivaji Maharaj, each holding significant purpose.

During the inaugural ceremony, the chief guest Hon. Mr. Dilip Pawar, API Walchandnagar Police Station, Hon. Mr. Hanumant Bandgar (Z.P. Member), Mrs. Shital Wanve (P.S. Member Indapur), Principal Dr. Bharat Shinde, Principal Dr. Madhukar Phad expressed their views. During the valedictory session, Principal Dr. R. S. Bichkar expressed satisfaction and urged to continue the bonding of Lakadi villagers with Vidya Pratishthan for better symbiosis in the coming days.



(Photo of NSS Students doing yoga )

## NSS programs conducted details Academic Year (2020-21)

Sr. No	Name of NSS Programmes	Date	No of participants	Remark
1	Tree Plantation at 'Udat Tal. Indapur'	28-06-2020	49	350 saplings of bitter Neem, Pimpal, Jamun and Babul were planted
2	Nirmal Vari - Pune to Pandharpur Dindi	29-06-2020 to 04-06-2020	155	"Ek Bharat Shreshth Bharat" (Virtual Vari)
3	Tree Plantation at the village 'Rui'	19-07-2020	6	124 saplings of Tamarind (chinch), Azadirachta Indica (bitter neem), Phyllanthus Emblica (amla) were planted.
4	74 <sup>th</sup> Independence Day Celebration [Online Mode]	15-08-2020	60	Elocution Competition with Prof Uday Patil as the chief guest
5	Participation in the Blood Donation Camp conducted by Environmental Forum of India	26-08-2020	3	Our 3 faculty members donated blood
6	Felicitation Program of the Distinguished Alumnus Avinash Sanjeevan Shinde for becoming an IAS	03-09-2020	45	An IAS officer with AIR 226
7	Celebration of the Teachers' Day [Online Mode]	05-09-2020	256	Talk by students and staff
8	NSS Day Celebration - 'Mission Begin Again', [Online Mode]	26-09-2020	80	
9	Celebration of गांधी जयंती व लाल बहादूर शास्त्री जयंती [Online Mode]	02-10-2020	170	Expert talk on 'Scope in Technical Civil Services, Higher Studies and GATE Preparations' by Mr Ansari Abdullah (IIT, Delhi)
10	Tree Plantation at 'Vinodkumar Gujar Society'	04-10-2020	06	86 saplings of Azadirachta Indica (bitter neem) were planted
11	'How Do We Build Atmanirbhar Bharat with Atmavishwas?' by Dr Raghunath Mashelkar [Online Mode]	30-10-2020	2,100	
12	'National Education Day' as the birth anniversary of	11-11-2020	51	

	Bharat Ratna Maulana Abul Kalam Azad [Online Mode]			
13	One Day Workshop on "WE the Movement of Positivity"	15-01-2021	52	
14	125 <sup>th</sup> Birth Anniversary of Netaji Subhash Chand Bose [Online Mode]	23-01-2021	38	
15	Sweep - Voters' Awareness Program	23-01-2021	99	The Rights of Voters from the perspective of The Representation of the People Act, 1951: An Expert session by Prof Vikas Bansode
16	Republic Day	26-01-2021	120	Session on Social Development for Sustainable Development
17	मराठी भाषा गौरव दिन	27-01-2021	180	An expert talk by Prof Manaji Gawade
18	Adarsh Mata Pita, Veer Mata Pita Puraskar	15-02-2021	20	
19	Shiv-Jayanti Celebration	19-02-2021	99	
20	Nutrition awareness program on International women's day	06-03-2021	180	Expert talk by Mr. Ashraf Sayyad
21	Health Management program on International women's day	10-03-2021	190	Expert talk by Dr. Himgauri Vadgaonkar
22	Tree Plantation at respective residences	21-03-2021	54	52 fruit saplings were planted
23	Azadi Ka Amrut Mohatsav	27-03-2021	240	Expert Talk by Mr Akash Patil

**Special Achievement:** Overcoming all the obstacles, our distinguished BE (Civil) student and NSS volunteer Ms Rajashri Mane participated in the National Republic Day as a Contingent Commaner at Rajpath, New Delhi on 26<sup>th</sup> Jan 2021.



(Photo of Rajashree Mane appreciated by Principal Dr. R. S. Bitchkar and NSS Coordinatos )

- **Soft Skill Development Facilities/Training Facilities**

**Academic Year : 2020-21**

Sr. No	Training Programmes	Agency/Trainer	Duration / Schedule	Participants (Branches)	No of Participants
1	Energy Conservation and Alternative Fuel Vehicles Training	PCRA, Mr. Sudhir Shah	1 Day	Electrical	105
2	TCS NQT 2021 English Section Preparation Training	VPKBIET, Mr. Nilesh Pandhare	5 Days	BE (All Branches)	136
3	TCS NQT 2021 English Section Preparation Training	VPKBIET, Mr. Anil Patil	2 Days	BE (All Branches)	129
4	TCS NQT 2021 C Language Programming Training	VPKBIET, Mr. Vyankatesh Rampurkar	4 Days	BE (All Branches)	124
5	TCS NQT 2021 C Language Programming Training	VPKBIET, Mr. Shrikant Dhage	2 Days	BE (All Branches)	139
6	Zensar ESD Aptitude Training	Zensar Technologies, Mr. Pranav Thorat, Mr. Sagar Deshmukh	4 Days	TE Compute, IT, E &TC	80
7	Zensar ESD SQL/PL SQL Training)	Zensar Technologies, Mr. Rahul Barve, Mr. Jay Vegesna	5 Days	TE Computer, IT, E &TC	80
8	Zensar ESD Python Training	Zensar Technologies, Mr. Mujaheed Hussani, Mr. Abdul Shaikh	10 Days	TE Computer, IT, E &TC	75

9	Wipro NLTH 2020-21 Essay Writing Session Training	VPKBIET, Mr. Nilesh Pandhare	1 Day	BE (ALL Branches)	75
10	Wipro NLTH 2020-21 Essay Writing Session Training	VPKBIET, Mr. Anil Patil	1 Day	BE (ALL Branches)	44

- **Soft Skill Development Facilities/Training Facilities arranged by Department in Academic year 2020-21(other than T & P Department)**

Sr. No	Training Programmes	Agency/ Trainer	Duration / Schedule	Participants (Branch)/organizing Department	No of Participants
1	Soft Skill and Personality Development	Anurag Salave	1 day	Mechanical	25
2	Introduction to C programming	V.V.Rampurkar	17 to 25 July 2020	Computer	70
3	TCS NQT 2021 C Language Programming Preparation	V.V.Rampurkar	9 to 15 OCT 2020	ALL Eligible TCS NQT Students computer	105
4	Alumina Interaction	Shriram Patil	17-02-2021 3 hours.	TE-IT, BE-IT Information Technology	100
5	ICT-DXE Women empowerment program	ICT	12-03-2021 31-07-2021	TE-IT, TE-ENTC, TE-Comp Information Technology	64
6	Top trending technologies in 2020 and e-commerce opportunities	BookMyProject Mr. Kiran Jagtap Mr. Amar Gore	30-07-20 1 day	TE-IT, BE-IT Information Technology	100
7	PCB layout Design	M.M. Jadhav	27 <sup>th</sup> Sept. 2020	E. & TC.Engg.Department	31
8	Online short course on Learn to Design your own Solar Home System Energy	Energy Swaraj Foundation	6-11 August 2020	Electrical Engg.Department	534
9	One week Skill development program on, "Hands on PLC"	Prayas Exceleator	31 Aug-4 Sept 2020	Electrical Engg. Department	120
10	Webinar on 'Role of automation in Industry 4.0'	Pantech e-Learning	12 Sept 2020	All Baranches Electrical Engg.Department	1000
11	Innovative Teaching Learning Methods (Online Mode Phase-I)	AICTE-ISTE Sponsored	7-12 Dec. 2020	All branches of Engineering and Science General Science Department	98

	Innovative Teaching Learning Methods (Online Mode Phase-II)	AICTE-ISTE Sponsored	22-28 April 2021	All branches of Engineering and Science General Science Department	Proposed
	Innovative Teaching Learning Methods (Online Mode Phase-II)	AICTE-ISTE Sponsored	6-12 May 2021	All branches of Engineering and Science General Science Department	Proposed
11	3-days online skill development program on, "Circuit Breakers & Switchgears: Designing, Installation, Maintenance and Testing	1.Mr. Mirza Azmat Baig, CEO (Alpha Techno)/ Co-Founder (Three Phase Technical Services LLC) Dubai, United Arab Emirates, 2.Mr. Jaysingh Kshirsagar, Assistant Professor, Zeal College of Engineering & Research, Pune 3. Mr. Ramesh Epili, Engineer, Power Grid Corporation of India Limited, Aurangabad, Maharashtra 4. Mr. Dhananjay Buwaji Wayal, Deputy Executive Engineer, 220/132/33KV Substation, MSETCL, MIDC,	25-27 Sept 2020	Electrical Engg.D	159

**Academic Year : 2019-20**

Sr. No	Training Programmes	Agency/ Trainer	Duration / Schedule	Participants (Branches)	No of Participants
1	Zensar ESD JAVA Training	Zensar Technologies, Mr. Vijay Pradeep, Mr. Pradeep Kakade	10 Days	BE Computer, IT	46
2	Zensar ESD Softskills Training	Zensar Technologies, Mrs. Vidisha Joshi, Mr. Rahul Maske	3 Days	BE Computer, IT	44
3	4 C Aptitude Training	4 C Training, Mr. Angraj Pawar	5 Days	TE and BE Civil	110

4	Aptitude Training	Apttech, Mr. Sanir Kittur	1 Day	TE E&TC, Computer, IT	145
5	Zensar ESD SQL / PL SQL Training	Zensar Technologies, Mr. Vivek Agnihotri, Mr. Abdul Shaikh	5 Days	TE Computer, IT, E&TC	87
6	Zensar ESD Java and Manual Testing Training	Zensar Technologies, Mr. Vivek Agnihotri, Mr. Sushant Pingale	10 Days	TE Computer, IT, E&TC	87
7	Zensar ESD Softskills Training	Zensar Technologies, Mr. Kalyan Kumar, Mrs. Fatima Tinwala	3 Days	TE Computer, IT, E&TC	83
8	Zensar ESD Lifeskills Training	Zensar Technologies, Mr. Vinayak Ghawale, Mrs. Fatima Tinwala	1 Day	TE Computer, IT, E&TC	83
9	Zensar ESD Aptitude Training	Zensar Technologies, Mr. Anand Deshpande, Mr. Laxmikant Shinde	1 Day	TE Computer, IT, E&TC	86
10	Aptitude Training Program	Apttech, Mrs. Swapnila Malpathak, Mr. Laxmikant Shinde, Mr. Sanir Kittur	3 Days	BE (All Branches)	113
11	Python & Robotics	Mr. Yogesh Bhole	3 Days	BE Mechanical	17
12	Aptitude Training	Apttech,  Mr. Vinit Satpute, Mr. Ajinkya Jaggirdar,  Mr. Sanil Kittur, Mrs. Sneha Wagatkar	7 Days	BE (All Branches)	174
13	Alternative Fuel Vehicles, Fuel and Electricity conservation	PCRA, Mr. Sudhir Shah	1 Day	FE TO BE (All Branches)	163
14	Python Training	Zensar Technologies, Mr. Mujahed Hussaini, Mr. Atul Phad	5 Days	TE Computer, IT, E&TC	83

#### 10.15.6 Teaching and Learning Process

- Curricula and syllabus for each of the Programmes as approved by the University

### First Year Engineering

Department Name	Term	Subject	Hours per Week			Maximum Marks				Total
			L	P/D	T	PP	TW	PR	OR	
FE	I	Engineering Mathematics-I	03	--	01	100	25	--	25	125
		Engineering Physics / Engineering Chemistry	04	02	--	100	-	25	--	125
		Systems in Mechanical Engineering	03	02	--	100	--	25	--	125
		Basic Electrical Engineering / Basic Electronics Engineering	03	02	--	100	--	25	--	125
		Programming and Problem Solving / Engineering Mechanics	03	02	--	100	--	25	--	125
		Workshop®	--	02	--	--	--	25	--	25
		Audit Course 1 Environmental Studies-I	02	--	--	--	--	--	--	--
	II	Engineering Mathematics-II	04	--	01	100	25	--	--	125
		Engineering Physics / Engineering Chemistry	04	02	--	100	--	25	--	125
		Basic Electrical Engineering / Basic Electronics Engineering	03	02	--	100	--	25	--	125
		Programming and Problem Solving / Engineering Mechanics	03	02	--	100	--	25	--	125
		Engineering Graphics	01	02	01	50	--	25	--	75
		Project Based Learning	--	04	--	--	25	50	--	75
		Audit Course Environmental Studies-II	02	--	--	--	--	--	--	--
Audit Course Physical Education- Exercise and Field Activities	--	--	--	--	--	--	--	--		

**Undergraduate(UG)**

Department Name		Term	Subject	Hours per Week			Maximum Marks				Total
				L	P/D	T	PP	TW	PR	OR	
Civil Engineering	FE	I	7	18	10	1	500	25	125		650
		II	7	17	12	2	450	75	125		650
	SE	I	6	15	13	1	500	100	-	100	700
		II	6	15	12	1	500	100	50	50	700
	TE	I	5	20	-	10	500	100	-	150	750
		II	6	20	--	10	500	100	50	100	750
	BE	I	6	22	-	10	500	100	-	150	750
		II	5	16	-	14	400	200	-	150	750

**Postgraduate(PG)**

Department Name		Term	Subject	Hours per Week			Maximum Marks				Total
				L	P/D	T	PP	TW	PR	OR	
Civil Engineering	ME-I	I	5	21	4		500	50		50	600
		II	4	17	8		400	100		100	600
	ME-II	I	3	13	12		300	100		100	500
		II						200		100	300

**Mechanical Engineering**

## Undergraduate(UG)

Department Name		Term	Subject	Hours per Week			Maximum Marks				Total
				L	P/D	T	PP	TW	PR	OR	
Mechanical Engineering	FE	I	1.Systems in Mechanical Engineering	3	2	--	100	--	25	--	125
			2. Workshop	--	2	--	--	--	25	--	25
	II	1. Engineering Graphics	1	2	1	50	25	--	--	75	
	I	1.Solid Mechanics	4	2	--	100	25	--	25	150	
		2. Solid Modeling and Drafting	3	2	--	100	--	50	--	150	
		3. Engineering Thermodynamics	3	2	--	100	--	--	25	125	
		4. Engineering Materials and Metallurgy	3	2	--	100	25	--	--	125	

	SE	5. Electrical and Electronics Engineering	3	2	--	100	25	--	--	125	
		6. Geometric Dimensioning and Tolerancing Lab	--	2	--	--	25	--	--	25	
		7. Audit Course - III	--	--	--	--	--	--	--	--	
	II	1.Engineering Mathematics - III	3	--	1	100	25	--	--	125	
		2. Kinematics of Machinery	3	2	--	100	25	--	--	125	
		3. Thermal Engineering	3	2	--	100	--	50	--	150	
		4. Fluid Mechanics and Machinery	3	2	--	100	--	50	--	150	
		5. Manufacturing Engineering	3	--	--	100	--	--	--	100	
		6.Machine Shop	--	2	--	--	50	--	--	50	
		7.Project Based Learning - II	--	4	--	--	--	--	--	--	
		8.Audit Course - IV	--	--	--	--	--	--	--	--	
	TE	I	1.Design of Machine Elements-I	4	2	--	100	50	--	--	150
			2.Heat Transfer	4	2	--	100	--	50	--	150
			3. Theory of Machines-II	3	--	1	100	25	--	25	150
			4. Turbo Machines	3	2	--	100	--	--	25	125
5. Metrology and Quality Control			3	2	--	100	--	--	25	125	
6. Skill Development			--	2	--	--	25	25	--	50	
II		1.Numerical Methods and Optimization	4	2	--	100	--	50	--	150	
		2. Design of Machine Elements-II	4	2	--	100	25	--	25	150	
		3. Refrigeration and Air Conditioning	3	2	--	100	--	--	25	125	
		4. Mechatronics	3	--	1	100	--	--	25	125	
	5. Manufacturing - Process-II	3	--	--	100	--	--	--	100		

			6. Machine Shop-II	--	2	--	--	50	--	--	50		
			7. Seminar	--	2	--	--	25	--	25	50		
			8. Audit Course	--	--	--	--	--	--	--	--		
	BE	I	1. Hydraulics and Pneumatics	3	2	--	100	25	--	25	150		
				2. CAD CAM Automation	3	2	--	100	25	50	--	175	
				3. Dynamics of Machinery	4	2	--	100	25	--	25	150	
				4. Elective-I	4	2	--	100	25	--	--	125	
				5. Elective-II	3	--	--	100	--	--	--	100	
				6. Project-I	--	4	--	--	25	--	25	50	
			II	1. Energy Engineering	3	2	--	100	25	--	25	150	
					2. Mechanical System Design	4	2	--	100	25	--	50	175
					3. Elective-III	3	2	--	100	25	--	--	125
					4. Elective-IV	3	--	--	100	--	--	--	100
				5. Project-II	--	12	--	--	100	--	100	200	

**Electrical Engineering****Undergraduate(UG)**

Department Name		Term	Subject	Hours per Week			Maximum Marks				Total	
				L	P/D	T	PP	TW	PR	OR		
Electrical Engineering	FE	I	BEE	3	2	-	-	-	25	-	5	
		II	BEE	3	2	-	-	-	25	-	5	
	SE	I	Engg. Math-III	3	-	-	-	-	-	-	-	03
			PGT	3	-	-	-	-	-	-	-	03
			MS	3	4	-	-	25	-	25	-	07
			ADC	3	2	-	-	-	50	-	-	05
			EMI	3	4	-	-	25	25	-	-	07
			AMEE	-	2	-	-	25	-	-	-	02
			SS	-	2	-	-	25	-	-	-	02
AC	-	-	-	-	PP	-	-	-	-			

		II	PS-I	3	-	-	-	-	-	-	03	
			EM-I	3	2	-	-	-	50	-	-	05
			NA	3	2	-	-	25	-	-	-	05
			NMCP	3	2	-	-	-	25	-	-	05
			FMA	3	4	-	-	25	-	25	-	07
			PBL	-	4	-	-	50	-	-	-	04
			AC	-	-	-	PP	-	-	-	-	-
	TE	I	ITM	3	-	-	-	--	-	-	-	03
			AMA	4	2	-	-	-	-	50	-	06
			EM-II	4	2	-	-	-	50	-	-	06
			PE	4	2	-	-	-	50	-	-	06
			EIMT	3	2	-	-	50	-	-	-	05
			STC	-	2	-	-	50	-	-	-	02
			AC	-	-	-	PP	-	-	-	-	-
		II	PS-II	4	2	-	-	-	50	-	-	06
			CS-I	4	2	-	-	-	-	50	-	06
			UEE	3	-	-	-	-	-	-	-	03
			DEM	4	2	-	-	25	-	50	-	06
			EAM	3	2	-	-	25	-	-	-	05
			EWS	-	2	-	-	50	-	-	-	02
			AC	-	-	-	PP	-	-	-	-	-
	BE	I	PSOC	3	2	-	-	25	-	25	-	05
			PLC	4	2	-	-	25	50	-	-	06
			SCAD									
			A & APPL									
			PQ	3	2	-	-	25	-	-	-	05
E&HV			3	-	-	-	-	-	-	-	03	
CS-II			3	2	-	-	25	-	25	-	05	
PROJE			-	-	2	-	-	--	50	-	02	
CT-I												
AC		--	--	--	PP	--	-	--	--	--		
II		SGP	3	2	--	--	50	--	25	-	05	
		PECD	4	2	--	--	25	50	--	-	06	
		HVE	3	2	--	--	25	25	--	-	05	
		SG	3	-	--	--	--	--	--	-	03	
		PROJE	-	-	6	--	50	--	100	-	06	
	CT-II											
	AC	--	---	--	PP	--	--	--	--	--		

### Electronics and Telecommunication Engineering

#### Undergraduate(UG)

Department Name	Term	Subject	Hours per Week			Maximum Marks				Total	
			L	P/D	T	PP	T/W	PR	OR		
Electronics and Telecommunication Engineering	FE	I	Basic Electronics Engineering	03	02	-	100	25	-	-	125
	SE	I	Engineering Mathematics-III	04	-	01	100	25	-	-	125
			Electronics Circuits	03	-	-	100	-	-	-	100
			Digital Circuits	03	-	-	100	-	-	-	100
			Electrical Circuits	03	-	-	100	-	-	-	100
			Data Structures	03	-	-	100	-	-	-	100

		Electronic Circuit Lab	-	02	-	-	-	50	-	50
		Digital Circuit Lab	-	02	-	-	-	50	-	50
		Electrical Circuit Lab	-	02	-	-	25	-	-	25
		Data Structure Lab	-	02	-	-	-	-	25	25
		Electronic Skill Development	-	02	-	-	25	-	-	-
		Mandatory Audit Course -3	-	-	-	-	-	-	-	-
	II	Signals and Systems	3	-	1	100	25	-	-	125
		Control systems	3	-	-	100	-	-	-	100
		Principals of Communication Systems	3	-	-	100	-	-	-	100
		Object Oriented Programming	3	-	-	100	-	-	-	100
		Signals and Control Systems Lab		2	-	-	50	-	-	50
		Principals of Communication System Lab	-	2	-	-	-	50	-	50
		Object Orientated Programimng Lab	-	2	-	-	-	-	50	50
		Data Analytic Lab	-	2	-	-	-	-	25	25
		Employability Skill Development	2	2	-	-	50	-	-	50
		Project Based Learning		4			50			
		Mandatory Audit Course 4	-	-	-	-	-	-	-	-
TE	I	Digital Communication	4	--	--	100	--	--	--	100
		Digital Signal Processing	4	--	--	100				100
		Electromagnetics	3	--	1	100	--	--	--	100

		Microcontrollers	3	--	--	100	--	--	--	100
		Mechatronics	3	--	--	100	--	--	--	100
		Signal Processing and Communication Lab		--	4	-	50	50	-	100
		Microcontroller and Mechatronics Lab	--	--	4	-	50	50	--	100
		Electronic System design	2	2	-	-	-	--	50	50
		Audit Course 3	--	--	--	-	--	--	--	--
	II	Power Electronics	4	-	--	100	--	--	--	100
		Information Theory, coding and Communication Network	4	-	--	100	--	--	--	100
		Business Management	4	-	-	100	--	--	--	100
		Advanced Processor	4	-	-	100	--	--	--	100
		System programming and Operating Systems	3	-	-	100	--	--	--	100
		Power and ITCT Lab	--	4	-	-	50	50	-	100
		Advanced Processor and System Programming Lab	--	4	-	-	50	50	--	100
		Employability Skill and Mini Project	2	2	-	-	-	-	50	50
		Audit Course 4	--	--	--	--	--	--	--	--
B E		I	VLSI Design and Technology	3	--	--	100	--	--	--
	Computer Networks and Security		4	--	--	100	--	--	--	100
	Radiation and Microwave		3	--	--	100	--	--	--	100

			Techniques							
			Elective-I	3	--	--	100	--	--	100
			Elective -II	3	--	--	100	--	--	100
			Lab Practice-I(CNS+RMT)	--	4	--	-	50	-	50
			Lab Practice-II(VLSI+Elective-I)	--	4	--	-	50	50	-
			Project-stage-I	--	--	2	-	--	--	50
			Audit Course-V	--	--	--	-	--	--	--
		II	Mobile Communication	3	--	--	100	--	--	--
			Broadband Communication System	4	--	--	100	--	--	--
			Elective-III	3	2	--	100	25	--	25
			Elective-IV	3	--	--	100	--	--	--
			Lab Practice-III(MC+BCS)	--	4	--	-	50	50	--
			Lab Practice-IV (Elective-III)	--	2	--	-	-	--	50
			Project stage-II	--	--	6	-	150	--	50
			Audit Course-VI	--	--	--	-	--	--	--

### Information Technology

#### Undergraduate(UG)

Department Name		Term	Subject	Hours per Week			Maximum Marks				Total
				L	P/D	T	PP	TW	PR	OR	
Information Technology	SE	I	Discrete Mathematics	03	-	01	100	25	-	-	125
			Logic Design and Computer Organization	03	-	-	100	-	-	-	100
			Data Structures and Algorithms	03	-	-	100	-	-	-	100
			Object Oriented Programming	03	-	-	100	-	-	-	100
			Basics of Computer Network	03	-	-	100	-	-	-	100

			Logic Design Computer Organization Lab	-	02	-	-	25	25	-	50
			Data Structures and Algorithms Lab	-	04	-	-	25	25	-	50
			Object Oriented Programming Lab	-	04	-	-	25	25	-	50
			Soft Skill Lab	-	02	-	-	25	-	-	25
			Mandatory Audit Course 3	-	-	-	-	-	-	-	-
	II		Engineering Mathematics- III	3	-	1	100	25	-	-	125
			Processor Architecture	3	-	-	100	-	-	-	100
			Database Management System	3	-	-	100	-	-	-	100
			Computer Graphics	3	-	-	100	-	-	-	100
			Software Engineering	3	-	-	100	-	-	-	100
			Programming Skill Development Lab	-	2	-	-	25	25	-	50
			Database Management System Lab	-	4	-	-	25	25	-	50
			Computer Graphics Lab	-	2	-	-	-	25	-	25
			Project Based Learning	-	4	-	-	50	-	-	50
			Mandatory Audit Course 4	-	-	-	-	-	-	-	-

	TE	I	Theory of Computation	4	--	--	100	--	--	--	100	
			Database Management Systems	4	--	--	100					100
			Software Engineering & Project Management	3	--	--	100	--	--	--		100
			Operating System	4	--	--	100	--	--	--		100
			Human-Computer Interaction	3	--	--	100	--	--	--		100
			Software Laboratory-I		--	4	-	25	50	50		125
			Software Laboratory-II	--	--	4	-	25	50	--		75
			Software Laboratory-III	--	--	2	-	50	--	--		50
			Audit Course 3	--	--	--	-	--	--	--		--
		II	Computer Network Technology	3	-	--	100	--	--	--		100
			Systems Programming	4	-	--	100	--	--	--		100
			Design and Analysis of Algorithms	4	-	-	100	--	--	--		100
			Cloud Computing	3	-	-	100	--	--	--		100
			Data Science & Big Data Analytics	4	-	-	100	--	--	--		100
			Software Laboratory-IV	--	--	2	-	25	--	25		50
			Software Laboratory-V	--	--	4	-	50	50	--		100
			Software Laboratory-VI	--	--	2	-	25	25	--		50

			Project Based Seminar	--	01	--	-	--	--	50	50
			Audit Course 4	--	--	--	--	--	--	--	--
	BE	I	Information and Cyber Security	3	--	--	100	--	--	--	100
			Machine Learning and Applications	4	--	--	100	--	--	--	100
			Software Design and Modeling	3	--	--	100	--	--	--	100
			Elective-I	3	--	--	100	--	--	--	100
			Elective -II	3	--	--	100	--	--	--	100
			Computer Laboratory-VII	--	4	--	-	50	50	--	100
			Computer Laboratory-VIII	--	4	--	-	50	--	50	100
			Project Phase-I	--	--	2	-	--	--	50	50
			Audit Course-V	--	--	--	-	--	--	--	--
		II	Distributed Computing System	3	--	--	100	--	--	--	100
			Ubiquitous Computing	3	--	--	100	--	--	--	100
			Elective-III	3	2	--	100	25	--	25	150
			Elective-IV	3	--	--	100	--	--	--	100
			Computer Laboratory-IX	--	4	--	-	50	50	--	100
			Computer Laboratory-X	--	2	--	-	25	--	25	50

			Project Work	--	--	6	-	50	--	100	150
			Audit Course-VI	--	--	--	-	--	--	--	--

**Computer Engineering****Undergraduate(UG)**

Department Name	Term	Subject	Hours per Week			Maximum Marks				Total	
			L	P/D	T	PP	T W	PR	OR		
Computer Engineering	FE	I	EM-I	03		1	100	25			125
		I	EPHY/ ECHEM	04	06		100		25		125
		I	SME	03	06		100		25		125
		I	BElect.E/ B Elec. E	03	06		100		25		125
		I	PPS/EM	03	06		100		25		125
		I	WORKSHOP		06				25		25
		II	EM-II	04		1	100	25			125
		II	EPHY/ ECHEM	04	06		100		25		125
		II	BElect.E/ B Elec. E	03	06		100		25		125
		II	PPS/EM	03	06		100		25		125
		II	EG	01	06	1	50		25		75
		II	PBL-I		12		25		50		75
	SE	I	DM	03			100				100
		I	FDS	03			100				100
		I	OOP	03			100				100
		I	CG	03			100				100
		I	DELD	03			100				100
		I	DSL		16			25	50		75
		I	OOPCGL		16			25	25		50
		I	DEL		08			25			25
		I	BCSL		08			25			25
		I	HSS			1		25			25
		II	EM-III	03		4	100	25			125
		II	DSA	03			100				100
		II	SE	03			100				100
		II	MP	03			100				100
		II	PPL	03			100				100
		II	DSAL		16			25	25		50
		II	MPL		08			25		25	50
		II	PBL-II		16			50			50
	II	COC			1		25			25	
	TE	I	TOC	03			100				100
		I	DBMS	03			100				100
		I	SEPM	03			100				100
		I	ISEE	03			100				100
		I	CN	04			100				100
		I	SDL		16	2		50		50	100
		I	DBMSL		16			25	50		75
		I	CNL		08			25	50		75
		II	DAA	04			100				100
		II	SPOS	04			100				100
		II	ESIOT	04			100				100
II		SMD	03			100				100	
II		WT	03			100				100	
II		S&TC			4		50			50	
II		WTL		08			25	50		75	

BE	II	SPOSL		16		25	50		75
	II	ESIOTL		08		50			50
	I	HPC	04		100				100
	I	AI&R	03		100				100
	I	DA	03		100				100
	I	DMW	03		100				100
	I	STQA	03		100				100
	I	LP-I		16		50	50		100
	I	LP-II		16		50		50	100
	I	PWS-I		08				50	50
	II	ML	03		100				100
	II	ICS	03		100				100
	II	CP	03		100				100
	II	SCOA	03		100				100
	II	CC	03		100				100
	II	LP-III		16		50	50		100
	II	LP-IV		16		50		50	100
	II	PWS-II		24		100		50	150



**VPKBIET, Baramati**  
**FE Academic Calendar Sem-I 2020-21**

Sr.No	Date	Activity
01	18-01-21	Workload Distribution, Equipment requirement and planning
02	19-01-21	Preparation of Time table
03	20-01-21	Dept portfolio, Class teacher, Mentor and other activity assignment
04	21-01-21	Commencement of FE Teaching (1st Sem)
05	21-01-21 to 29-01-21	FE Induction Program Phase-I
06	26-01-21	Republic Day
07	2-02-21	Principal's Address
08	2-02-21 to 11-02-21	FE Induction Program Phase-II
09	19-02-21	Shivjayanti (Holiday)
10	4-03-21	Display of attendance (February)
11	12-03-21 to 17-03-21	Unit Test -I
12	20-03-21	Display of Result of Unit Test-I and meeting with students
13	27-03-21	Parent's Meet
14	25-03-21 to 31-03-21	Unit Test II
15	3-04-21	Display of Result of Unit Test-II and meeting with students
16	4-04-21	Display of attendance (March) and display of final attendance
17	31-03-2021	Conclusion of Tern
18	01-04-21	Student's feedback
19	01-04-21 to 15-04-21	SPPU Exam (Tentative)

- Academic teaching load with the name of the Faculty members handling the Course

## Name of Department : First year Engineering Academic Year : 2020-21 Semester: I

Sr. No	Name of Teacher	Details of the teaching Load hrs./Week							Total Load Hrs./Wk
		Theory			Practical/Tutorial			Project and Seminar	
		Subject	Class	Load	Subject	Class-Batch	Load	Load	
1	Dr. A. P. Hiwarekar	Engineering Mathematics-I	FE - II	4	Engineering Mathematics-I	1b, 2c, 3a, 6b, 5c	5	0	9
2	Mr. D. S. Sonawane	Engineering Mathematics-I	FE - III & IV	8	Engineering Mathematics-I	1c, 2b, 3c, 4c, 6a	5	0	13
3	Ms. G. G. Bhoite	Engineering Mathematics-I	FE - V & VI	8	Engineering Mathematics-I	2a, 3b, 4a, 5a 6c	5	0	13
4	Mr. A. M. Jadhav	Engineering Mathematics-I	FE - I	4	Engineering Mathematics-I	1a, 4b, 5b,	3	0	7
5	Mr. A. S. Disale	Engineering Physics	FE - II	5	Engineering Physics	2a, 2b, 2c	6	0	11
6	Dr. N. T. Shelke	Engineering Physics	FE - III	5	Engineering Physics	3a, 3b, 3c	6	0	11
7	Mr. T. A. Chimbalkar	Engineering Physics	FE - I	5	Engineering Physics	1a, 1b, 1c	6	0	11
8	Dr. A. G. Sajjan	Engineering Chemistry	FE - VI	5	Engineering Chemistry	6a, 6b, 6c	6	0	11
9	Dr. N. A. Jadhav	Engineering Chemistry	FE - IV	5	Engineering Chemistry	4a, 4b, 4c	6	0	11
10	Ms. F. Y. Shaikh	Engineering Chemistry	FE - V	5	Engineering Chemistry	5a, 5b, 5c	6	0	11
11	Ms V. S. Survase	Basic Electronics Engineering	FE - IV & V	8	Basic Electronics Engineering	4a, 4b, 4c, 5a	8	0	16
12	Ms. M. B. More	Basic Electronics Engineering	FE - VI	4	Basic Electronics Engineering	6a, 6b, 6c, 5b, 5c	10	0	14
13	Ms. J. S. Kulkarni	Basic Electrical Engineering	FE - I & II	8	Basic Electrical Engineering	2a, 2b, 2c	6	0	14
14	Mr.S. A. Khadtare	Basic Electrical Engineering	FE - III	4	Basic Electrical Engineering	1a, 1b, 1c, 3a, 3b, 3c	12	0	16
15	Mr. A. M. Gaikwad	Engineering Mechanics	FE IV	4	Engineering Mechanics	-	0		8

		EVS-I (Audit Course)	FE IV, V	4	EVS-I (Audit Course)	4a, 4c	0	0	
16	Mr. K. V. Raut	Engineerin g Mechanics	FE VI	4	Engineerin g Mechanics	4a, 4c	0		8
		EVS-I (Audit Course)	FE III & VI	4	EVS-I (Audit Course)	4a, 4c	0	00	
17	Dr. S. G. Morkhade	Engineerin g Mechanics	FE - V	4	Engineerin g Mechanics	-----	0	0	4
18	Ms. S. Y. Tambe	Engineerin g Mechanics	-----	0	Engineerin g Mechanics	4b, 5a, 6c	6	0	6
19	Mr. M. R. Gupta	Engineerin g Mechanics	-----	0	Engineerin g Mechanics	5c, 5b	4	0	4
20	Mr. V. B. Bhagwat	Systems in Mechanical Engineerin g	FE - VI	4	Systems in Mechanical Engineerin g	6a, 6b, 6c	6	0	16
					Workshop	1a, 1b, 1c	6		
21	Dr. V. B. Gawande	Systems in Mechanical Engineerin g	FE - I	4	Workshop	4a	2	0	6
22	Mr. V. C. Todkari	Systems in Mechanical Engineerin g	FE - II	4	Systems in Mechanical Engineerin g	2a, 2b, 2c	6	0	16
						Workshop	5a, 5b, 5c	6	
23	Mr. P. V. Dhandore	Systems in Mechanical Engineerin g	FE - V	4	Systems in Mechanical Engineerin g	5a, 5b, 5c	6	0	10
24	Mr. D. S. Bhosale	Systems in Mechanical Engineerin g	FE - III & IV	8	Systems in Mechanical Engineerin g	3a, 3b, 3c	6	0	18
						6a, 6b	4		
25	Mr. D. D. Rupanwar	Mechanical Engineerin g	-----	0	Mechanical Engineerin g	4a, 4b, 4c	6	0	6
26	Mr. A. A. Bhapkar	Mechanical Engineerin g	-----	0	Mechanical Engineerin g	1a, 1b, 1c	6	0	6
27	Mr. P. T. Raut	Programmi ng and Problem Solving (PPS	FE - II & III	8	Programmi ng and Problem Solving (PPS	3a, 3b, 3c, 2c	8	0	16

28	Ms. N. T. Phalke	Programming and Problem Solving (PPS)	FE - I	4	Programming and Problem Solving (PPS)	1a, 1b, 1c, 2a, 2b	10	0	14
29	Mr. A. H. Kolekar	Workshop	-----	0	Workshop	2a	2	0	2
30	Ms. P. D. Kale	Workshop	-----	0	Workshop	2b	2	0	2
31	Mr. S. V. Shelge	Workshop	-----	0	Workshop	2c	2	0	2
32	Mr. S. H. Kumbhar	Workshop	-----	0	Workshop	3b	2	0	2
33	Mr. M. S. Gaikwad	Workshop	-----	0	Workshop	3c, 6c	4	0	4
34	Mr. H. P. Borate	Workshop	-----	0	Workshop	3a	2	0	2
35	Ms. M. S. Yadav	Workshop	-----	0	Workshop	4b, 4c	4	0	4
36	Mr. P. K. Pise	Environmental Studies - I (Audit Course)	FE - I & II	4	Environmental Studies - I (Audit Course)	-----	0	0	4

**Name of Department : Civil engineering Academic Year : 2020-21 Semester: I**

Sr. No	Name of Teacher	Detailsof the teaching Load hrs./Week							Total Load Hrs./Wk
		Theory			Practical/Tutorial			Project and Seminar	
		Subject	Class	Load	Subject	Class-Batch	Load	Load	
1	Dr. G. N. Narule	Transportation Engineering	BE	3	Transportation Engineering	BE	8	2	15
		Elective-I	ME	2					
2	Dr. C. B. Nayak	Structural Design III	BE	2	Structural Design III	BE	8	2	12
3	Dr. R J Patil	Env. Engg.	TE	4	Env. Engg. II	TE	8	6	22
		Env. Sci		4					
4	Dr. S. G. Morkhade	Structural Design I	TE	4	Structural Design I	TE	12	7	23
5	Prof. Dilip G. Patil	ELECTIVE 1 (ATP)	BE	3	ELECTIVE 1 (ATP)	BE	8	4	15
6	Mr. U. T. Jagdale	Mechanics Of structure	SE	3	Mechanics Of structure	SE	8	2	17
		Structural Dyanamics	ME I	4					
7	Ms. Snehal R. Deshmukh	Hydrology and Water Resources Engineering	TE	3	Hydrology and Water Resources Engineering	TE	8	6	20
		Fluid Mechanics	SE	3					
8	Ms. Jyoti C. Bhong	maternity leave							
9	Mr. Dhiraj Dipak Ahiwale	Advance design of Earthquake resistance structure	ME II	4	Mechanics Of structure Practical	SE	8	7	23
		Elective II (EE)	BE	3					

10	Mr. Rushikesh Ramesh Khartode	Theory of elasticity and plasticity	ME II	4	Building Technology And Architectural Planning	SE	8	2	17
		Building Technology And Architectural Planning	SE	3					
11	Mr. A. M. Gaikwad	Engineering Mechanics	FE	4	Engineering Mechanics	FE	4	2	16
		Env. Sci.	FE	4					
12	Miss. P. A. Bokey	Fluid Mechanics II	TE	4	Fluid Mechanics II	TE	8	2	18
		ELECTIVE III	ME II	2					
13	Mr. Prafulla K. Pise	Engineering Geology	SE	3				2	9
		Research Methodology	ME II	4					
14	Mrs. S. Y. Tambe	Structural analysis	TE	4	Seminar 2	ME II	4	2	18
		Advance design of steel structure	ME I	4	Lab practise	ME I	4		
15	Mr. K. V. Raut	Engineering Mechanics	FE	8	EM	FE	8	2	18
16	Mr. M. R. Gupta	Env. Sci.	FE	4	Engineering Mechanics	FE	2	2	19
		Elective I	ME - I	3	Building Technology And Architectural Planning	SE	8		
17	Mr. Y. H. Tambe	Elective III	ME II	3	Fluid Mechanics	SE	8	2	19
		Structural Design-II	TE	2	Structural Design I	TE	4		
18	Mr. S. G. Sable	Infrastructure Engineering and Construction Techniques	TE	3				2	9
		Numerical methods in structural analysis	ME I	4					

## Name of Department Civil Engineering Academic Year : 2020-21 Semester: II

Sr. No	Name of Teacher	Detailsof the teaching Load hrs./Week							Total Load Hrs./Wk
		Theory			Practical/Tutorial			Project and Seminar Load	
		Subject	Class	Load	Subject	Class-Batch	Load		
1	Dr. G. N. Narule	Structural Desugn II	TE	4	Structural Desugn II	TE	4	2	10
2	Dr. C. B. Nayak	Quantity Surveying, Contracts and tenders	BE	3	Quantity Surveying, Contracts and tenders	BE	6	2	11
3	Dr. R J Patil	Environm ental Engg. II	TE	4	Environm ental Engg. II	TE	8	6	18
4	Dr. Samadhan G. Morkhade	Engineeri ng Mechanics	FE	4	Seminar	ME II	5	7	16
5	Mr. D. G. Patil	Elective 4 (CM)	BE	3	Elective 4 (CM)	BE	8	4	15
6	Ms. Snehal B. Walke	Structural Analysis II	TE	3	Structural Analysis II	TE	4	2	13
		Structural Dyamanics	ME I	4					
7	Mr. U. T. Jagdale	Foundation Engineering	TE	3	Lab practice	ME I	4	2	13

		Project based learning	SE	2	Project based learning	SE	2		
8	Ms. Snehal R. Deshmukh	Dams and hydraulic structures	BE	3	Dams and hydraulic structures	BE	8	6	17
9	Prof. Ms. Jyoti C. Bhong	Geotechnical Engg.	SE	3	Geotechnical Engg.	SE	8	6	18
					Seminar	TE	1		
10	Prof. Mr. Dhiraj Dipak Ahiwale	Survey	SE	3	Survey	SE	8	7	13
11	Prof. Mr. Rushikesh Ramesh Khartode	Concrete Technology	SE	3	Concrete Technology	SE	8	2	13
12	Prof. Mr. A. M. Gaikwad	Engg. Mech.	FE	4	Engg. Mech.	FE	4	2	14
		Env. Studies	FE	4					
13	Prof. Miss. P. A. Bokey	Advanced surveying	TE	3	Advanced surveying	TE	8	4	15
14	Prof. Mr. Prafulla K. Pise	Project Management and Engineering Economics	TE	4	Survey	SE	4	2	14
		Env. Science	FE	4					
15	Prof. Mrs. S. Y. Tambe	Project management	SE	3	Engg. Mechanics	FE	4	6	13
16	Mr. K. V. Raut	Engg Mechanics	FE	4	Engg Mechanics	FE	4	4	16
		Env. Studies	FE	4					
17	Prof. Mr. M. R. Gupta	Elective 1	ME 1	5	Engg. Mechanics	FE	4	6	19
					Quantity Surveying, Contracts and tenders	TE	2		
					Elective 3	ME	2		
18	Prof. Mr. Y. H. Tambe	TEP	ME	4	Elective 3 (HEP)	BE	3	6	16
		Elective 3 (HEP)	BE	3					
19	Prof. Mr. S. G. Sable				SD II	TE	12	6	18

**Name of Department : Mechanical Engineering Academic Year : 2020-21 Semester: I**

Sr. No	Name of Teacher	Details of the teaching Load hrs./Week							Total Load Hrs./Wk
		Theory			Practical/Tutorial			Project and Seminar	
		Subject	Class	Load	Subject	Class-Batch	Load	Load	
1	Dr. P. R. Chitragar	HT	TE	04	HT	TE-4	08	02	14
2	Dr. S. M. Bhosle	SMD	SE	03	SMD(Pra)	SE-4	08	02	13
3	Dr. S. C. Bali	EMM	SE	03	EMM(Pra)	SE-4	08	02	13
4	Dr. M. S. Lande	MQC	TE	03	MQC(Pra)	TE-4	08	02	13
5	Dr. V.B.Gawande	ELE-I(CFD)	BE	03	CFD(Pra) SD(Pra)	BE-1 TE-4	02 08	02	15

6	Dr. V.C.Todkari	SME	FE	06	SME(Pra) WS(Pra)	FE-3 FE-1	06 02	02	16
7	(Dr).A.H. Kolekar	ET	SE	03	ET(Pra) WS(Pra)	SE-4 FE-1	08 02	02	15
8	(Dr).S.V.Shelge	CCA	BE	03	CCA(Pra) GDTL(Pra)	BE-4 SE-1	08 02	02	15
9	(Dr).V.B.Bhagwat	SME	FE	06	SME(Pra) WS(Pra)	FE-3 FE-1	06 02	02	16
10	(Dr).Mrs.P.D.Kale	TOM-II	TE	03	TOM- II(Tut) WS(Pra)	TE-2 FE-4	04 08	02	17
11	Mr.D.D.Rupnawar	H&P	BE	03	H&P(Pra) WS(Pra)	BE-4 FE-1	08 02	02	15
12	(Dr).H.P.Borate	SM	SE	04	SM(Pra) WS(Pra)	SE-4 FE-1	08 02	02	16
13	Mr.K.M.Jadhav	One Year Deputation for COEP's PGDERP Course							
14	(Dr).Ms.M.S.Yada v	TM	TE	03	TM(Pra) WS(Pra)	TE-4 FE-1	08 02	02	15
15	(Dr).S.H.Kumbhar	DME-I	TE	04	DME-I(Pra) WS(Pra)	TE-4 FE-1	08 02	02	16
16	Mr. P.V.Dhandore	DOM	BE	04	DOM(Pra) WS(Pra)	BE-4 FE-1	08 02	02	16
17	Mr.A.A.Bhapkar	ELE-I(FEA)	BE	03	FEA(Pra) WS(Pra)	BE-3 FE-1	06 02	02	13
18	Mr. M.S.Gaikwad	ELE-II(AE)	BE	03	WS(Pra)	FE-5	10	02	15
19	Mr.S.C.Mahadik	ELE-II(OR)	BE	03	GDTL(Pra) WS(Pra)	SE-3 FE-1	06 02	02	13
20	(Dr). D.S.Bhosale	SME	FE	03	SME(Pra)	FE-6	12	02	15

**Name of Department :Mechanical Engineering Academic Year : 2020-21 Semester: II**

Sr. No	Name of Teacher	Detailsof the teaching Load hrs./Week							Total Load Hrs./Wk
		Theory			Practical/Tutorial			Project and Seminar	
		Subject	Class	Load	Subject	Class-Batch	Load	Load	
		Detailsof the teaching Load hrs./Week							
		Theory			Practical/Tutorial			Project and Seminar	
		Subject	Class	Load	Subject	Class-Batch	Load	Load	
1	Dr. P. R. Chitragar	EE	BE	03	EE	BE-4	08	02	13
2	Dr. S. M. Bhosle	MP	SE	03	MS-I(Pra) PBL-II	SE-4 SE-1	08 02	02	15
3	Dr. S. C. Bali	MP-II	TE	03	MS-II(Pra) PBL-II	TE-4 SE-1	08 02	02	15
4	Dr. M. S. Lande	ELE-III(IE)	BE	03	IE(Pra) PBL-II	BE-3 SE-2	06 04	02	15
5	Dr. V.B.Gawande								
6	Dr. V.C.Todkari								

7	(Dr).A.H.Kolekar	ATD	SE	03	ATD(Pra)	SE-4	08	02	13
8	(Dr).S.V.Shelge	FM	SE	03	FM(Pra)	SE-4	08	02	13
9	(Dr).V.B.Bhagwat								
10	(Dr).Mrs.P.D.Kale	KOM	SE	03	KOM(Pra)	SE-4	08	02	13
11	Mr.D.D.Rupnawar	MTX	TE	03	MTX(Tut) PBL-II	TE-2 SE-1	04 02	02	11
12	(Dr).H.P.Borate	DME-II	TE	04	DME-II(Pra)	TE-4	08	02	14
13	Mr.K.M.Jadhav	One Year Deputation for COEP's PGDERP Course							
14	(Dr).Ms.M.S.Yadav	RAC	TE	03	RAC(Pra)	TE-4	08	02	13
15	(Dr).S.H.Kumbhar	MSD	BE	04	MSD(Pra)	BE-4	08	02	14
16	Mr. P.V.Dhandore	ELE-IV(PDD)	BE	03				02	
17	Mr.A.A.Bhupkar	ELE-IV(AMP)	BE	03	PBL-II(Pra)	SE-3	06	02	11
18	Mr. M.S.Gaikwad	NMO	TE	04	NMO(Pra)	TE-4	08	02	14
19	Mr.S.C.Mahadik	ELE-III(ROBO)	BE	03	ROBO(Pra) PBL-II	BE-1 SE-5	02 10	02	17
20	(Dr). D.S.Bhosale								

**Name of Department : Electrical Engineering Academic Year : 2020-21 Semester: I**

Sr. No	Name of Teacher	Details of the teaching Load hrs./Week							Total Load Hrs./Wk
		Theory			Practical/Tutorial			Project and Seminar	
		Subject	Class	Load	Subject	Class-Batch	Load	Load	
1	Dr.N.B.WAGH	PSOC	BE	04	PSOC	BE-2	04	02	10
2	Mrs.J.S.KULKARNI	BEE	FE	08	BEE	FE-4	08	04	20
3	Mr.R.S.TARADE	PQ	BE	03	PQ	BE-4	08	04	15
4	Mrs.S. D. ROKADE ADAM	On maternity leave							
5	Mrs.P.N.JAISWAL	EM-II E&HV	TE BE	04 03	EM-II	TE	06	02	15
6	Mr.P.D.UPADHYE	BEE	FE	04	BEE	FE-4	10	04	18
7	Mr.D.S.YEOLE	EIMT	TE	03	EIMT	TE-3	06	04	13
8	Mr.N.C.VAIDYA	ADE ITM	SE TE	04 03	ADE	SE-3	06	04	17
9	Mr.R.A.RAKATE	PLC & SCADA	BE	04	PL&SCADA	BE-4	08	04	16
10	Mr.Hafiz SHAIKH	PGT CS-II	SE BE	04 03	CS-II	BE-4	08	04	19
11	Mr.S.D.SHELAR	MS	SE	04	MS PSO	SE-3 BE-2	06 04	04	18
12	Mr..S.G.RAKHONDE	PE	TE	04	PE	TE-3	06	04	14
13	Mr.S.A.KHADTARE	EEE	TE(M EH)	03	EEE	TE- MECH- 3	06	04	13
14	Ms.V.D.BURUNGALE	EMI	SE	04	EMI	SE-3	06	04	14

15	Mrs.Monali More	AMA	TE	04	AMA	TE-3	06	-	10
16	Mr.Amol Jadhav	ENGG.MA THS-III	SE	04	AMEE	SE-1	02	-	06

Name of Department : Electrical Engineering Academic Year : 2020-21 Semester: II

Sr. No	Name of Teacher	Details of the teaching Load hrs./Week							Total Load Hrs./Wk	
		Theory			Practical/Tutorial			Project and Seminar		
		Subject	Class	Load	Subject	Class-Batch	Load	Load		
1	Dr.N.B.WAGH	PS-II	TE	04	PS-II	TE- 4	08	06	18	
2	Mrs.J.S.KULKARNI	BEE	FE	08	BEE	FE-4	08	06	22	
3	Mr.R.S.TARADE	EAM	TE	03	EAM PBL	TE-4 SE-1	08 04	06	21	
4	Mrs.S. D. ROKADE ADAM	FMA	SE	03	FMA PBL	SE-6 SE-1	12 04	06	25	
5	Mrs.P.N.JAISWAL	HVE	BE	03	HVE PBL	BE-4 SE-1	08 04	06	21	
6	Mr.P.D.UPADHYE	Deputed for PGD in ERP								
7	Mr.D.S.YEOLE	SGP	BE	03	SGP PBL	BE-4 SE-1	08 04	06	21	
8	Mr.N.C.VAIDYA	CS-I	TE	04	CS-I PBL	TE-4 SE-1	08 04	06	22	
9	Mr.R.A.RAKATE	NA	SE	03	NA PBL	SE-4 SE-1	08 04	06	21	
10	Mr.Hafiz SHAIKH	PS-I	SE	03	NMCP PBL EWS	SE-4 SE-1 TE-4	08 04 08	06	29	
11	Mr.S.D.SHELAR	DEM SG	TE BE	04 03	TE PBL	TE-4 SE-1	08 04	06	25	
12	Mr..S.G.RAKHON DE	NMCP PECD	SE BE	03 04	PBL PECD	SE-1 BE-4	04 08	06	25	
13	Mr.S.A.KHADTAR E	BEE	FE	04	BEE PBL	FE-5 SE-1	10 04	06	24	
14	Ms.V.D.BURUNGAL E	EM-I UEE	SE TE	03 03	EM-I PBL	SE-4 SE-1	08 04	06	24	

Name of Department : E. & Tc. Engineering Academic Year : 2020-21 Semester: I

Sr. No	Name of Teacher	Details of the teaching Load hrs./Week							Total Load Hrs./Wk
		Theory			Practical/Tutorial			Project and Seminar	
		Subject	Class	Load	Subject	Class-Batch	Load	Load (Project)	
		1	Dr.. S.B. Lande	DSP	T.E.(A & B)	8			
Project Phase-I	M.E.	2							
Seminar	M.E.	2							
2	Dr.R.K. Shastri	VLSI	B.E.	6	VLSI	B.E.	12	2	20

3	V.U. Deshmukh	Electronic Circuits RMT	S.E.(A) B.E.(A)	3 3	Electronic Circuits RMT	S.E.(A) B.E.(A)	6 6	2 2	11 11 = 22
4	Patil B.H.	RMT ESD WSN forIOT	B.E.(B) T.E. ME	3 4 4	RMT ESD	B.E.(B) T.E.	6 6	2 2	11 12 4 =27
5	Kadabe P.K.	DS System on chip design	S.E.(A,B) M.E.	6 4	DS	S.E.(A,B)	6	2	18
6	Rangole J.S.	MC Elective- III	T.E.(A & B) ME	6 4	MC	T.E.	12	2	20 4 =24
7	Surwase V.S.	ESD	T.E.(B)		ESD	T.E.(B)	6	2	8
8	Jagdale S.S.	CNS DC	B.E.(A) T.E.(B)	3 4	CNS DC	B.E.(A) T.E.(B)	6 6	2	21
9	Biradar S.D.	EPD DSP	B.E.(A & B) T.E.(A,B)	6	DSP	TE(A, & B) T.E.(A,B)	12	2	20
10	Kushnure D.T	Electric al Circuits	S.E(A & B)	6	Electrical Circuits	S.E(A & B)	12	2	20
11	Kolhar S.U.	Digital Circuits	S.E.(A,B)	6	Digital Circuits	S.E.(A,B)	12	2	20
12	Jadhav M.M.	EM	T.E.(A & B)	6	EM	T.E.(A & B)	12	2	20
13	Piske R.S.	CNS DC	B.E.(B) T.E.(A)	3 4	CNS DC	B.E.(B) T.E.(A)	6 6	2	21
14	Nagalkar V.J.	Mechatronics	T.E.	6	Mechatronics	T.E.	12	2	20
15	Bhagat A.W.	Electronic Circuits	S.E.(B)	3	Electronic Circuits ESD	S.E.(B) S.E.(B) S.E.(MECH )	6 6 6	2	23
16	S.B.Nikam	IOT	B.E.(B)	6	IOT	B.E.(B)	12	2	20
17	M.U. More	Microcontroller	T.E(Electrical)	4	Microcontroller	T.E(Electrical)	6	2	12

Name of Department : E. & TC. Engineering Academic Year : 2020-21 Semester: II

Sr. No	Name of Teacher	Details of the teaching Load hrs./Week			Total Load
		Theory	Practical/Tutorial	Project and Seminar	Hrs./Wk

		Subject	Class	Load	Subject	Class-Batch	Load	Load (Project)	
1	Dr. S.B. Lande	MC BM	B.E.(A) T.E.(B)	3 3	PE Project Phase-I Seminar	T.E.(B) M.E. M.E.	4 2 2	2	16
2	DR. R.K. Shastri	SS	S.E.(A,B)	6	SS(Tut)	S.E.(A,B)	6	2	14
3	V.U. Deshmukh	CS	S.E.(A,B)	6	CS	S.E.(A,B)	10	2	18
4	Dr. B.H. Patil	PCE	S.E.(A,B)	6	PCE	S.E.(A,B)	10	2	18
5	P.K.Kadbe	PE	T.E.(A,B)	8	PE	T.E.(A,B)	8	2	18
6	S.S.Jagdale	WN ES & MP	B.E.(B) T.E.(B)	3 2	MC ES & MP BCS	B.E.(B) T.E.(B) B.E.(A)	4 4 4	2	19
7	S.D. Biradar	AVE	B.E.(A)	3	AVE ES & MP	B.E.(A) T.E.(A)	10 2	2	17
8	M.M.Jadhav	ITCT	T.E.(A,B)	8	ITCT	T.E.(A,B)	8	2	18
9	D.T.Krushnure	BCS	B.E.(A,B)	8	BCS	B.E.(A,B)	8	2	18
10	V.S.Surwase	BXE	FE	8	BXE	FE	8	2	18
11	S.U.Kolhar	AP	T.E.(A,B)	8	AP	T.E.(A,B)	8	2	18
12	Dr.V.J.Nagalakar	AVE BM	B.E.(B) T.E.(A)	3 3	AVE ES & MP	B.E.(B) T.E.(A,B)	2 8	2	18
13	R.S.Piske	MC	B.E.(B)	3	ITCT MC	T.E.(B) B.E.(B)	4 10	2	19
14	A.W.Bhagat	WN PCS	B.E.(A)	3	PCS PBL	S.E.(A) S.E.(A,B)	2 12	2	19
15	S.B.Nikam	SPOS Honours(IOT)	T.E.(A)	3 4	SPOS AP	T.E.(A) T.E.(B)	6 4	2	19
16	M.U. More	BXE	FE	4	BXE CS	FE S.E.(B)	10 2	2	18
17	A.B. Patil	ESD	S.E.(B)	4	ESD	S.E.(B)	6		10
18	N.S.Pandhare	ESD	S.E.(A)	4	ESD	S.E.(A)	6		10
19	T.V. Bhandari	SPOS	T.E.(B)	3	SPOS	T.E.(B)	6		9

20	S.S.Bhoite	OOP	S.E.(B)	3	OOP	S.E.(B)	6		9
21	S.N.Dhage	OOP	S.E.(A)	3	OOP	S.E.(A)	6		9
22	P.A.Malve				DAL	S.E.(A)	12		12

Name of Department : Information Technology Academic Year : 2020-21 Semester: I

Sr. No	Name of Teacher	Detailsof the teaching Load hrs./Week							Total Load
		Theory			Practical/Tutorial			Project and Seminar	
		Subject	Class	Load	Subject	Class-Batch	Load	Load	
1	Dr. Takale Sheetal Ajay	TOC(4)	TE	4	DSAL(4)	SE	4		8
2	Mr. Zende Dinesh Achyut	DS(1)	SE	1	DS-Tutorial (2)	SE	2		15
		MLA(4)	BE	4	CL-VII(8)	BE	8		
3	Mr. Patil Pradeep Manikrao	DBMS (4)	TE	4	SL-I (12)	TE	12		16
4	Mr. Shinde Santosh Arun	SEPM(3)	TE	3	SL-III(8)	TE	8		16
		UE(3)	BE	3	Project(2)	BE	2		
5	Mr. Kare Santosh Sahebrao	DSA(3)	SE	3	DSAL(12)	SE	12		15
6	Mr. Kokare Avinash Jagnnath	DS(2)	SE	2	DS-Tutorial (2)	SE	2		15

		BCN(3)	SE	3	SL-II(8)	TE	8	
7	Mr. Bhagwat Keshav Sitaram	LDCO(3)	SE	3	OOPL(4)	SE	4	15
					LDCO(8)	SE	8	
8	Mrs. Bhale Kanchan M.	ICS(3)	BE	3	SL-I(4)	TE	4	15
					CL-VII(8)	BE	8	
9	Ms. Jadhav Komal Subhash	OOP(3)	SE	3	OOPL(12)	SE	12	16
		HCI(1)	TE	1				
10	Ms. Sakhare Yashoda Narsing	SDM(3)	BE	3	CL-VIII(10)	BE	10	13
11	Ms. Bhandare Trupti Vasantrao	OS(4)	TE	4	SL-II(8)	TE	8	12
12	Ms. Shah Nikita Pritam	HCI(2)	TE	2	CL-VIII(6)	BE	6	11
		STQA(3)	BE	3				

Name of Department: Information Technology Academic Year : 2020-21 Semester: II

Sr. No	Name of Teacher	Details of the teaching Load hrs./Week							Total Load Hrs./Wk
		Theory			Practical/Tutorial			Project and Seminar	
		Subject	Class	Load	Subject	Class-Batch	Load	Load	

1	Dr. Takale Sheetal Ajay	SP(4)	TE-IT	4	SL-V(4)	TE-IT	4		8
2	Mr. Zende Dinesh Achyut	DS(3) DM(2)	BE-IT SE-IT	5	CL-IX(8)	BE-IT	8		13
3	Mr. Shinde Santosh Arun	CG(3)	SE-IT	3	CGL(8) SL-III(2)	SE-IT TE-IT	10	PBS(1) Project (4)	17
4	Mr. Patil Pradeep Manikrao	DSBDA(4)	TE-IT	4	SL-VI(8) DBMSL (4) SL-I(2)	SE-IT TE-IT	14		18
5	Mr. Kare Santosh Sahebrao	DAA(4) DSF(2)	SE-IT TE-IT	6	SL-V(8) DSFL (2)	SE-IT TE-IT	10		16
6	Mr. Kokare Avinash Jagnath	CNT(3) DS(1) BCN(2)	SE-IT TE-IT	6	SL-IV(8)	TE-IT	8	PBL(4)	18
7	Mr. Bhagwat Keshav Sitaram	PAI(3) LDCO(2)	SE-IT	5	PSDL(8) LDCOL(2 )	SEIT	10	Project (2)	17
8	Mrs. Bhale Kanchan M.	DBMS (3)	SE-IT	3	DBMSL (12) CL-VII(2)	SE-IT BE-IT	14		17
9	Ms. Komal Jadhav Subhash	IOT(3) ELECT-III(8) OOP(2) SE Audit Course	SE-IT BE-IT	13	OOPL (2)	SE-IT	2		15
10	Mrs. Sakhare Yashoda Narsingh	SE(3) SMA(3) BE Audit Course	SE-IT BE-IT	6	CL-IX(8)	BE-IT	8		14

11	Ms. Bhandare Trupti Vasantrya	CC(3) SPOS(3)	TE-IT TE-ENTC	6	SPOS(6) SL-II(2)	TE-ENTC TE-IT	8	14
12	Ms. Shah Nikita Pritam	UC(3)	BE-IT	3	SL-V(4) CL-X(8) CL-VIII(2)	TE-IT BE-IT	12	15

Name of Department : Computer Engineering Academic Year : 2020-21 Semester: I

Sr. No	Name of Teacher	Details of the teaching Load hrs./Week							Total Load Hrs./Wk
		Theory			Practical/Tutorial			Project and Seminar	
		Subject	Class	Load	Subject	Class-Batch	Load	Load	
1	Dr. S. K. Shinde	DA	BE	03	LP-I SEM-II	BE ME-II	04 04	Project=02	13
2	Dr. D. B. Hanchate	OOP AI & R	SE BE	03 03	OOPCGL	SE	06		12
3	Dr. C. S. Kulkarni	STQA DM	BE ME-II	03 05	LP-I LP-II DS-I	BE BE ME-II	04 04 02		18
4	Mrs. G. J. Chhajed	TOC	TE	03	SDL	TE	08		11
5	Mrs. S. S. Nandgaonkar	CN	TE	04	CNL	TE	08	Project=02	14
6	Mr. D. M. Padulkar	SDL DMW	TE BE	02 03	SDL DMW	TE BE	04 08		17
7	Mr. M. D. Shelar	DBMS FTS	TE ME-II	03 04	DBSL	TE	08		15
8	Mr. R. V. Panchal	CG	TE	03	OOPCGL SDL	SE TE	08 04		15
9	Mr. P. T. Raut	PPS	FE	08	PPSL	FE	08		16
10	Mr. P. M. Paithane	DELD IR	SE ME-II	03 04	DEL LP-II	SE BE	08 04		19
11	Mr. V. V. Rampurkar	FDS	SE	03	DSL	SE	08		11
12	Mr. S. K. Shah	DM DM-Tut	SE SE	03 01	DBSL	TE	08		12
13	Mr. M. B. Rangdal	ISEE HPC	TE BE	03 04	LP-I	BE	08	Project=02	17
14	Ms. P. D. Jawalkar	HSS SEPM	SE TE	01 03	DSL	SE	08	Project=02	14
15	Ms. N. N. Phalake	PPS	FE	04	PPSL	FE	10		14

Name of Department : Computer Engineering Academic Year : 2020-21 Semester: II

Sr. No	Name of Teacher	Details of the teaching Load hrs./Week							Total Load Hrs./Wk
		Theory			Practical/Tutorial			Project and Seminar	
		Subject	Class	Load	Subject	Class-Batch	Load	Load	
1	Dr. S. K. Shinde	ML	BE	03	LP-II SEM DS-II	BE TE ME-II	04 01 02	Project=02	12
2	Dr. D. B. Hanchate	SE SC&OA	SE BE	03 03	LP-III	BE	04	Project=02	12
3	Dr. C. S. Kulkarni	CC	BE	03	LP-III LP-IV SEM	BE BE ME-II	04 04 01	Project=02	14
4	Mrs. G. J. Chhajed	SMD	TE	03	PBL-II	SE	08	Project=02	13
5	Mrs. S. S. Nandgaonkar	SPOS	TE	04	SPOS	TE	08	Project=02	14

6	Mr. D. M. Padulkar	CP	BE	03	PBL-II LP-IV	SE BE	04 04	Project=02	13
7	Mr. M. D. Shelar	WT	TE	03	WTL	TE	08	Project=02	13
8	Mr. R. V. Panchal	PPL	SE	03	DSAL	SE	08	Project=02	13
9	Mr. P. T. Raut	PPS	FE	08	PPSL	FE	08		16
10	Mr. P. M. Paithane	MP	SE	03	MPL	SE	08	Project=02	13
11	Mr. V. V. Rampurkar	DSA	SE	03	DSAL SEM	SE TE	08 02	Project=02	15
12	Mr. S. K. Shah	DAA	TE	04	SPOSL	TE	08	Project=02	14
13	Mr. M. B. Rangdal	ICS	BE	03	LP_III	BE	08	Project=02	13
14	Ms. P. D. Jawalkar	ESIOT	TE	04	ESIOTL LP-IV	TE BE	08 04		16
15	Ms. N. Phalake	PPS	FE	04	PPSL	FE	10		14
16	Mr. S. N. Dhage	OOP	SE EN&TC	03	PBL-II OOPL	SE SE E&TC	04 06		13
17	Mr. S. S. Bhoite	OOP	SE EN&TC	03	OOPL	SE E&TC	06		09
18	Ms. P. A. Malave				DA Lab	SE E&TC	12		12

- **Internal Continuous Evaluation System and place**

We have continuous evaluation system to assess students 'performance like analysis of unit tests, preliminary examination, assignments and oral examinations. Students participate in different activities such as seminars; group discussion sessions, technical events, poster presentation, quizzes and coding programs. These are conducted by respective course teachers. Report of these activities gives the data about learning outcomes achieved by students and the same is analyzed. Evaluation of students' performance in general aptitude test at the time of placement. On the basis of result analysis remedial action is taken for weak students in the following manner.

Extra lectures are conducted for special guidance, Monitoring of students' performance, providing theory question banks, summary of units and multiple-choice questions.

- Students Feedback system on different subjects of their respective class for individual faculties at the end of each semester for each academic Year.
- Feedback by students during semester by Head of department
- Online exam for SE and In-sem exam for TE and BE students for 30 marks based on three units of syllabus.
- Two Class Tests and Preliminary test.
- Assignments on all units.
- Continuous evaluation of practical's in laboratory.
- Practical Mock test and remedial measures for defaulters.

- **Student's assessment of Faculty, System in place**

- The IQAC committee visits each department and takes feedback on the teaching and learning process at various departments in every semester. The suggestions for improvement if any are immediately given to the faculty and Head of Department. Feedback from students (in each semester), parents, alumni and staff are taken and analyzed to understand the learning outcomes.
- Student assessments can be a tricky task. Our collection of ideas and forms will make it easier for you to evaluate and grade your students' work, no matter their grade level. There are as many variations of assessment as there are students. Student assessments will help students to perform at their best levels during testing situations. Includes strategies such as having a positive attitude, managing their time, reviewing their answers, and many more helpful hints. Student Assessment is helpful meaningful performance assessments to measure student abilities and progress.
- IQAC monitors the following measures
- Checking of course file, theory and practical attendance and all other relevant academic documents on the regular basis.
- Students' feedback is taken and analysis is conveyed to staff for their improvement.
- Mentor is assigned for each group of students for their overall development.
- Faculty members are motivated to keep their knowledge and skills updated. They are also motivated to pursue their higher studies and research.
- The Institute has the academic monitoring system to monitor the quality of teaching-learning.
- Head of the Department monitors and maintains academic activities and correlates it with course plans, academic calendar and resources such as course file and class delivery.

- j) Each semester the Institute takes feedback from students about the teaching of each faculty and counseling is provided by higher authority for their improvement.
- k) Course file of individual faculty containing study material, assignments is evaluated by respective Heads of Departments.
- l) Class tests, preliminary examinations, mock online tests, assignments, viva are conducted at regular interval to evaluate the technical knowledge gained by students in particular subjects.
- m) Institute evaluates the teaching-learning processes by comparing result with the University result, monitoring participation of students in curricular and co-curricular activities, quality of published papers, projects and number of students placed.

### 10.16 Enrollment of students in the last 3 years

#### Academic year 2019-20

Sr. No.	NAME OF BRANCH	FIRST YEAR			SECOND YEAR			THIRD YEAR			FOURTH YEAR			GROSS TOTAL			
		CA		Total	CA		Total	CA		Total	CA		Total	CA		Total	
		M	F		M	F		M	F		M	F		M	F		
1	CIVIL	47	13	60	42	21	63	43	23	66	50	25	75	182	82	264	
2	MECHANICAL	54	3	57	45	13	58	53	13	66	58	11	69	210	40	250	
3	ELECTRICAL	42	10	52	27	28	55	41	21	62	40	35	75	150	94	244	
4	E&TC	48	36	84	38	52	90	49	45	94	61	88	149	196	221	417	
5	COMPUTER	40	31	71	25	41	66	26	42	68	32	47	79	123	161	284	
6	I.T.	34	27	61	30	34	64	26	42	68	32	42	74	122	145	267	
<b>Total:</b>		<b>265</b>	<b>120</b>	<b>385</b>	<b>207</b>	<b>189</b>	<b>396</b>	<b>238</b>	<b>186</b>	<b>424</b>	<b>273</b>	<b>248</b>	<b>521</b>	<b>983</b>	<b>743</b>	<b>1726</b>	
1	Computer Engg.	0	1	1	0	2	2							0	3	3	
2	Digital Systems	0	2	2	0	4	4							0	6	6	
3	Design Engg.	0	0	0	5	1	6							5	1	6	
4	Enregy Engg.	0	0	0	2	0	2							2	0	2	
5	Structural Engg.	7	5	12	15	3	18							22	8	30	
		7	8	15	22	10	32							29	18	47	
														<b>Total :</b>	<b>0</b>	<b>0</b>	<b>1773</b>

Academic Year: 2018-19 (Under Graduate)																
Sr. No.	NAME OF BRANCH	FIRST YEAR			SECOND YEAR			THIRD YEAR			FOURTH YEAR			GROSS TOTAL		
		CA		Total	CA		Total	CA		Total	CA		Total	CA		Total
		M	F		M	F		M	F		M	F		M	F	
1	CIVIL	40	20	60	45	24	69	49	22	71	45	23	68	179	89	268
2	MECHANICAL	49	11	60	58	13	71	57	12	69	62	13	75	226	49	275
3	ELECTRICAL	39	13	52	51	23	74	45	33	78	46	30	76	181	99	280
4	E&TC	35	41	76	51	41	92	65	79	144	44	90	134	195	251	446
5	COMPUTER	27	31	58	25	41	66	33	49	82	28	36	64	113	157	270

6	I.T.	36	23	59	28	40	68	33	36	69	28	46	74	125	145	270
		<b>226</b>	<b>139</b>	<b>365</b>	<b>258</b>	<b>182</b>	<b>440</b>	<b>282</b>	<b>231</b>	<b>513</b>	<b>253</b>	<b>238</b>	<b>491</b>	<b>1019</b>	<b>790</b>	<b>1809</b>

**Post Graduate:**

1	Computer Engg.	1	3	4	0	4	4							1	7	8
2	Digital Systems	0	4	4	1	0	1							1	4	5
3	Design Engg.	7	1	8	4	1	5							11	2	13
4	Energy Engg.	2	0	2	0	0	0							2	0	2
5	Structural Engg.	15	3	18	8	9	17							23	12	35
	<b>Total:</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>							<b>38</b>	<b>25</b>	<b>63</b>

**Gross Total: 1057 815 1872****Academic Year: 2017-18 (Under Graduate)**

Sr. No.	NAME OF BRANCH	FIRST YEAR			SECOND YEAR			THIRD YEAR			FOURTH YEAR			GROSS TOTAL		
		CA		Total	CA		Total	CA		Total	CA		Total	CA		Total
		M	F		M	F		M	F		M	F				
1	CIVIL	45	19	64	50	22	72	46	25	71	38	28	66	179	94	273
2	MECHANICAL	50	8	58	56	12	68	65	13	78	54	14	68	225	47	272
3	ELECTRICAL	47	14	61	41	31	72	45	30	75	36	31	67	169	106	275
4	E&TC	51	32	83	63	78	141	47	102	149	52	72	124	213	284	497
5	COMPUTER	30	32	62	33	41	74	28	39	67	23	49	72	114	161	275
6	I.T.	28	28	56	32	38	70	30	46	76	25	40	65	115	152	267
	<b>Total:</b>	<b>251</b>	<b>133</b>	<b>384</b>	<b>275</b>	<b>222</b>	<b>497</b>	<b>261</b>	<b>255</b>	<b>515</b>	<b>228</b>	<b>234</b>	<b>462</b>	<b>1015</b>	<b>844</b>	<b>1859</b>

**Post Graduate:**

1	Computer Engg.	0	5	0	0	8	0	0	0	0	0	0	0	0	13	13
2	Digital System	1	0	0	0	3	0	0	0	0	0	0	0	1	3	4
3	Design Engg.	4	1	0	0	0	0	0	0	0	0	0	0	4	1	5
4	Energy Engg.	1	0	0	3	0	0	0	0	0	0	0	0	4	0	4
5	Structural Engg.	8	9	0	5	3	0	0	0	0	0	0	0	13	12	25
	<b>Total:</b>	<b>14</b>	<b>15</b>	<b>0</b>	<b>8</b>	<b>14</b>	<b>0</b>							<b>22</b>	<b>29</b>	<b>51</b>

**Gross Total: 1037 873 1910****Academic Year: 2016-17 (Under Graduate)**

Sr. No.	NAME OF BRANCH	FIRST YEAR			SECOND YEAR			THIRD YEAR			FOURTH YEAR			GROSS TOTAL		
		CA		Total	CA		Total	CA		Total	CA		Total	CA		Total
		M	F		M	F		M	F		M	F				
1	CIVIL	46	12	58	49	26	75	37	28	65	57	19	76	189	85	274

2	MECHANICAL	47	10	57	60	15	75	51	14	65	60	14	74	218	53	271			
3	ELECTRICAL	31	26	57	42	33	75	31	31	62	47	22	69	151	112	263			
4	E&TC	50	51	101	48	103	151	46	70	116	51	86	137	195	310	505			
5	COMPUTER	30	32	62	28	47	75	20	49	69	32	45	77	110	173	283			
6	I.T.	34	25	59	31	47	78	21	45	66	19	51	70	105	168	273			
	<b>Total:</b>	<b>238</b>	<b>156</b>	<b>394</b>	<b>258</b>	<b>271</b>	<b>529</b>	<b>206</b>	<b>237</b>	<b>443</b>	<b>266</b>	<b>237</b>	<b>503</b>	<b>968</b>	<b>901</b>	<b>1869</b>			
<b>Post Graduate:</b>																			
1	Computer Engg.	0	8	8	2	7	9							2	15	17			
2	Digital System	0	3	3	2	8	10							2	11	13			
3	Design Engg.	0	0	0	7	0	7							7	0	7			
4	Energy Engg.	3	0	3	1	1	2							4	1	5			
5	Structural Engg.	6	3	9	10	3	13							16	6	22			
	<b>Total:</b>	<b>9</b>	<b>14</b>	<b>23</b>	<b>22</b>	<b>19</b>	<b>41</b>							<b>31</b>	<b>33</b>	<b>64</b>			
														<b>Gross Total:</b>			<b>999</b>	<b>934</b>	<b>1933</b>

### 10.17 List of Research Project/cosultancy Work

#### 10.17.1 Number of projects carried out ,funding agency and grant received

##### Academic Year 2020-21

Research Project Title	Department	Faculty Investigator	Project Duration	Funding Agency	Amount (Rs.)
Optimisation of location for the clean air equipment to maximise the benefits	Mechanical ENgg	A. H. Kolekar	2019-20	Cummins India Ltd. Pune	Rs. 3,90,000

##### Grant Received from AICTE Project: 2020-22

Research Project Title	Department	Faculty Investigator	Project Duration	Funding Agency	Amount (Rs.)
AICTE's PRERNA Scheme	All	Dr. Sachin M. Bhosle	2019-20	AICTE	Rs. 5,53,000

##### Grant Received under BCUD Sponsored Research Projects: 2016-2018

Research Project Title	Department	Faculty Investigator	Project Duration	Funding Agency	Grant Received Amount (Rs.)
EEG based Emotion Recognition	Electronics and Telecom. Engg.	Mr. P. N. Arotale Mr. Premanand Kadbe (Co-Investigator)	2016-18	BCUD, SPPU, Pune	Rs. 1,10,000

A Pipeline VLSI architecture for 2-D DWT	Electronics and Telecom. Engg.	Mr. Balasaheb Patil Mr. Premanand Kadbe (Co-Investigator)	2016-18	BCUD, SPPU, Pune	1,70,000
Side Scan SONAR Image Analysis: An Application	Electronics and Telecom. Engg.	Mrs. Jyoti Rangole	2016-18	BCUD, SPPU, Pune	1,40,000
Finding Heart Rate, Heart rate variability, Respiration Rate and Oxygen Saturation Level From Video Recording by Laptop or Smartphone	Computer Engineering	Mrs. G. J. Chhajed	2016-18	BCUD, SPPU, Pune	72,000
Credit Card Fraud Detection using data mining tech	Information Technology	Mr. Dinesh Zende	2016-18	BCUD, SPPU, Pune	63,000

#### Grant Received under BCUD Sponsored Research Projects: 2014-2016

Research Project Title	Department	Faculty Investigator	Project Duration	Funding Agency	Grant Received Amount (Rs.)
Investigation of Nonlinear Effects (Optical Solutions) in Fiber Optic Communication and Its Applications	Electronics and Telecom. Engg.	Mr. Vikas Deshmukh	2014-16	BCUD, SPPU, Pune	Rs.1,90,000
Peak Power to Average Power Reduction of OFDM System Using Modified Selective Mapping Technique	Electronics and Telecom. Engg.	D. T. Kushnure	2014-16	BCUD, SPPU, Pune	1,70,000
Ambient Noise, Characterization in Shallow Depths for Tropical Water of The Indian Ocean Region	Electronics and Telecom. Engg.	S. S. Jagdale	2014-16	BCUD, SPPU, Pune	1,90,000
High speed network intrusion system using stride finite Automata	Computer Engineering	R. H. Ambole	2014-16	BCUD, SPPU, Pune	50,000
Discrimination detection using association rule mining	Computer Engg.	S. S. Nandgaonkar	2014-16	BCUD, SPPU, Pune	Rs.70,000
Detection of Adware using Data Mining and Machine Learning Techniques.	Computer Engg.	M. D. Shelar	2014-16	BCUD, SPPU, Pune	Rs.50,000
Electricity Transformer Lifetime Estimation using Association Rule Mining	Computer Engg.	P. M. Padulkar	2014-16	BCUD, SPPU, Pune	Rs.80,000
Inpainting of Digitized Vintage Films via Maintaining Spatiotemporal Continuity	Information Technology	S. A. Shinde	2014-16	BCUD, SPPU, Pune	Rs.70,000
Novel Method for movie character identification based on graph matching	Computer Engg.	R. V. Panchal	2014-16	BCUD, SPPU, Pune	Rs.70,000

IRIS Recognition system in less constrained Environment	Information Technology	P. M. Patil	2014-16	BCUD, SPPU, Pune	Rs.1,20,000
Characterization and comparison of solar selective coatings between Ni-Al and Ni-CO on Al substrate	Mechanical Engineering	V. B. Bhagwat	2014-16	BCUD, SPPU, Pune	Rs.85,000
ECG Signal Classification to examine brain activity.	Electronics and Telecom. Engg.	Mr. Shashank Biradar	2014-16	BCUD, SPPU, Pune	Rs.1,80,000

#### Grant Received under BCUD Sponsored Research Projects: 2013-15

Research Project Title	Department	Faculty Investigator	Project Duration	Funding Agency	Amount (Rs.)
Experimental investigation and analysis recast layer formation in wire electro discharge machining process.	Mechanical ENgg	Dr. S. M. Bhosle & S. V. Shelge	2013-15	BCUD, SPPU, Pune	2,15,000
Design of C-slot Microstrip Patch Antenna for Wi-Max Application.	Electronics and Telecom. Engg.	Mr. Madan Jadhav	2013-15	BCUD, SPPU, Pune	2,00,000
Detection of spyware using data mining and machine learning techniques Duration	Information Technology	Mr. Dinesh Zende	2013-15	BCUD, SPPU, Pune	70,000

#### Grant Received under BCUD Sponsored Research Projects: 2012-14

Research Project Title	Department	Faculty Investigator	Project Duration	Funding Agency	Amount (Rs.)
Spectroscopic Study of Medicinal and Edible Mushrooms for Development of Optical Sensors for Industrial and Agriculture Applications	General Science	Mr. Anil Disale	2012-14	BCUD, SPPU, Pune	90,000
Better Network Security Using Generalized Hill Cipher Algorithm	General Science	Mr. Anil Hiwarekar	2012-14	BCUD, SPPU, Pune	1,25,000

#### Grant received from AICTE MODROB Project: 2012-13

Project Title	Department	Faculty Investigator	Project Duration	Funding Agency	Amount (Rs.)
Modernization of Microwave Laboratory	Electronics and Telecom. Engg.	Dr. S. B. Deosarkar	2012-13	AICTE	Rs. 19,71,950

Non-Destructive Testing of existing structure and rehabilitation	Civil Engineering	Prof. G. N. Narule	2012-13	AICTE	Rs. 6,00,000
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- Grant Received for Seminars & Workshops (Year 2019-20)**

Title of Seminar/Workshop	Department	Investigator	Funding Agency	Funding Amount
For organization of Symposium/Workshop on "Damage detection and characterization strategy of non-engineering structures using PZT sensor : Theory and Practice" under Assistance to Professional Bodies & Seminar / Symposia Scheme (SERB-DST).	Civil Engineering	Dr. C. B. Nayak	DST-SERB	Rs.75,000/-
National level Seminar / Workshop on Damage detection strategy of structures using smart materials:Theory and Practice.	Civil Engineering	Dr. C. B. Nayak	QIP, SPPU, Pune	Rs.75,500/-
Faculty Development Program on "Deployment of Internet of Things"	Electronics and Telecom. Engg.	Dr. S. B. Lande	Electronics & ICT Academy,PDPM IIITDM, Jabalpur	Rs.1,75,500/-

- Grant Received for Seminars & Workshops under BCUD, SPPU,Pune (Year 2017-18)**

Title of Seminar/Workshop	Department	Investigator	Funding Amount
National Level Workshop - Steel Design Bridging the Gaps: Theory and Practice.	Civil Engineering	Dr. Sharad Ghodke	Rs. 88,400/-
State Level Workshop - Application of Power Electronics to Power Systems.	Electrical Engineering	Dr. Mohan Thakre	Rs. 44,000/-

- Grant Received for Seminars & Workshops under BCUD, SPPU,Pune (Year 2013-16)**

Title of Seminar/Workshop	Department	Investigator	Funding Amount
Faculty Development Program	Info. Technology	Mr. D. A. Zende	Rs. 1,50,000/-
State Level Seminar.	Computer Engineering	Mrs. Sushma Nandgaonkar	Rs. 59,500/-
State Level Workshop on "Critical Issues in Nuclear Technology"	Mechanical Engineering	Mr. Kolekar A. H. Mr. Jadhav K. M.	Rs. 1,00,000/-
Faculty Development Program	Computer Engineering	Mr. D. B. Hanchate	Rs. 25,000/-

- Travel Grant Received**

Name of Faculty	Department	Title of Conference	Funding Agency	Funding Amount
2018-19				
Mr. U. T.Jagdale	Civil Engineering	9th International Conference on Structural Engineering and Construction Management 2018, Kandy Srilanka	SPPU, Pune	60,000/-
Dr. S. G.Morkhade	Civil Engineering	Structural Engineering Convention (SEC-18), 2018, Jadavpur University Kolkata	SPPU, Pune	15,000/-
2017-18				

Dr. C. B. Nayak	Civil Engineering	8th International Conference on Structural Engineering and Construction Management 2017, Kandy Srilanka	SPPU, Pune	25,000/-
2015-16				
Dr. Sheetal Takale	Information Technology	16th International Conference on Web Information System Engineering, WISE-2015, Miami, Florida, USA	SPPU, Pune	1,50,000/-
			Centre for International Co-operation in Science(CICS), jointly sponsored by CSIR	25,000/-
2013-14				
Dr. Rajveer Shastri	Electronics & Telecomm. Engg.	OCEANS'13, MTS/IEEE San Diego conference 23-26 Sept. 2013	SPPU, Pune	1,35,000/-

**List of Research Projects submitted to National Agency ( 2020-21)**

Research Project Title	Department	Faculty Investigator	Duration (years)	Funding Agency	Amount (Rs.)
Analysis and design of steel castellated beams: a cost-efficient approach for an industrial buildings	Civil	Dr. S. G. Morkhade & Mr. D. D. Ahiwale	3	AICTE	24,80,000
Behavior and Performance of Industrial Steel Frame Structure under Bi-directional Horizontal and Vertical Ground Motions	Civil	Mr. D. D. Ahiwale, Dr. S. G. Morkhade, Mr. R. R. Khartode	3	AICTE	23,89,550
Analysis of uncertainties associated with Pan Evaporation in semi-arid areas.	Civil	Mr. U. T. Jagdale, Dr. C. B. Nayak	3	AICTE	18,08,000
Study on the efficacy of FRP band patterns as a rehabilitation stratagem for deteriorated RC structural elements	Civil	Dr. G. N. Narule & Mr. U. T. Jagdale	3	AICTE	21,87,500
Electric Transformer Health Monitoring and Remaining Life Estimation using Machine Learning	COMP	Mr. Digamber Padulkar, Dr. D. B. Hanchate, Mr. Prashant Raut	3	AICTE	18,37,500
IoT Assisted Performance Analysis of Vapour Compression Refrigeration System by making use of various Nanorefrigerants	Mechanical	Ms. Mona Yadav, Dr. P. R. Chitgar, Mr. Machindra Gaikwad	3	AICTE	22,99,175
Application of Machine Learning in Prediction of Shear Capacity of Castellated Steel Beams	Civil	Dr. S. G. Morkhade	3	SERB	3971520
Unconventional Technology-Based SHM Using Smart Material and Artificial Intelligence	Civil	Dr. C. B. Nayak	3	SERB	2865000
Effect of Prestressing	Civil	Dr. G. N.	3	SERB	2650000

the FRP Composites on Strengthening Process of RC Structural Elements.		Narule			
Quantification and Identification of Brain Diseases in CT scans using Artificial Intelligence.	E&Tc	Dr.V. J. Nagalkar	3	SERB	3411520
Development of Portable Milk Flow cum Analyzer Meter for Small Dairy Farms.	E&Tc	Dr.R.K.Shastri & Dr. S. M. Bhosle	3	RGSTC	2373600

**List of Research Projects submitted to BCUD Pune(Academic Year 2020-21)**

Research Project Title	Department	Faculty Investigator	Duration (Years)	Funding Agency	Amount (Rs.)
A Vehicle to Vehicle (V2V) bidirectional conductive charging method for mitigating charging anxiety in long range electric vehicles	Electrical	Mr. Rohit Shankarrao Tarade	2	SPPU	173500
Design and implementation of wireless charging pads for Electric Vehicles (EVs)		Mr. D. S. Yeole			236000
DC-distribution applications by using single-phase bidirectional inverter with two buck/boost MPPTs		Mr. Nikhil C. Vaidya			276876
Experimental Investigation of Concentric Tubes Heat Exchanger for Viscous Fluid Application	Mechanical	Jadhav Keshav Madhukar			230000
Vibration Analysis of Circular Brake Disc of Al-SiCp composite		Suraj H. Kumbhar			250000
Manufacturing of Eco-friendly fired clay brick with agricultural waste.		Pravin Vijay Dhandore			250000
Development and Fabrication of Micro channel Mold , Heat Sink by Photochemical Machining		Hanumant Borate			245500
Experimental investigation and Failure analysis of Femoral bone implant		SHRINIVAS SHELGE			165000
IoT Assisted Performance Analysis of Vapour Compression Refrigeration System by using various Nanorefrigerants		Ms. Mona S. Yadav			280000

Real-time temperature monitoring of sand casting process for improving identification of in-process defects with the aid of Machine Learning		Vishal Bhagvat & Prashant Raut			123000
Implementation of smart materials for life estimation and structural health monitoring (SHM) of structure	Civil	Dr C B Nayak, Mr.U.T.Jagdale			255000
Thermal Energy Storage (TES) of concrete with nano-structured calcium aluminate cement and special aggregates		Umesh Jagadale & Dr C B Nayak			295000
Experimental and Analytical Investigation to Study the Efficacy of Hibrid High Strength Castellated Steel Beams.		Dr. S.G.Morkhade			200000
Surface Water Quality Assessment of Nira River by using WQI and Arc-GIS		Snehal Deshmukh			300000
Embedded expansion brillouin sensor for monitoring corrosion of reinforcement in concrete structures.		Snehal Walke, Dr.C.B.Nayak, Mr.U.T.Jagdale			300000
Impact of Vertical Ground Motion on Long-span Steel Frame Structure embedded with Eccentric Braced Frame		Dhiraj Dipak Ahiwale			270000
Plant growth analysis and prediction using Deep learning		Shrikrishna Ulhas Kolhar			206000
SmartBook Reader for Visually Impaired Peoples using OCR and Raspberry Pi	Dr. Balasaheb H. Patil			220000	
Development of Deep Learning Framework for Automatic Liver and Tumor Segmentation in Computed Tomography Images	E&Tc	Devidas T. Kushnure			194000
Quantification and Identification of Huntington Disease Using Digital Image Processing		Dr. Vinay J. Nagalkar			195000
Grapes disease detection and micronutrients suggestions using CNN in deep learning.		Mr. Digambar Padulkar			186000

Image segmentation of pancreas using deep learning approach	COMP	Pradip Paithane		168000
A novel approach towards text detection from complex images using morphological techniques		Mr.V.V. Rampurkar, Mr.M.D.Shelar		185000

• **PROPOSAL SUBMITTED TO RGSTC, MUMBAI ( 2019-20)**

Sr. No.	Name of Proposal	Department	Name of Investigator	Amount in Rs
1	Setting up Technology Incubation Center at VPKBIET Baramati.	Mechanical Engg.	Dr. Sachin M.Bhosle	78 Lakh
2.	IOT based Technology Awareness for School children in Rural Areas around 50 Kms from Baramati.	Mechanical Engg.	Dr. Sachin M.Bhosle	30 Lakh
3.	Study of Microbially induced Corrosion of Stainless Steel and Release of Metal Ions in Dairy Industry.	Mechanical Engg. & Civil Engg.	Dr. Shirish C. Bali Dr. Ravindra J. Patil	24.15 Lakh
4.	Effect of Water Soluble Cutting Oil Fluids on Corrosion Behavior of Ductile Cast Iron.	Mechanical Engg. & Civil Engg.	Dr. Shirish C. Bali Dr. Ravindra J. Patil	16.55 Lakh
5.	Solar energy driven pesticide flow repellent helmet for farmers.	Mechanical Engg.	Dr. Vipin B. Gawande	05 Lakh
6.	Production of Construction Bricks from Agriculture Waste and unused Plastic.	Mechanical Engg.	Dr. Vipin B. Gawande	05 Lakh
7.	Hands on Training Program on '3D Modeling' for Skill Development of Students From Rural Areas.	Mechanical Engg.	Mr. Akshay A. Bhapkar	1.1 Lakh
8.	Awareness And Hands On Training On 3D Printing For Skill Development Of Junior College Students From Rural Areas.	Mechanical Engg.	Mr. Prasad U. Galande	4.75 Lakh
9.	Design And Development of Seed & Crop Transplanter.	Mechanical Engg.	Mr. Hanumant P. Borate	1.5 Lakh
10.	Empowerment of SC and ST Women by goat farming.	Mechanical Engg.	Mr. Pravin V. Dhandore	5.0 Lakh
11.	Design And Development of Decorticator For Fiber Extraction From Pseudostem.	Mechanical Engg.	Mr. Keshav M. Jadhav	5.0 Lakh
12.	Designing a system for conduction of real time experiments through IoT.	Mechanical Engg.	Ms. Mona S. Yadav	20 Lakh
13.	Air monitoring for reducing pollution by analyzing emission absorption through various plant.	Mechanical Engg.	Mr. Kehav M. Jadhav Ms. Mona S. Yadav	15 Lakh
14.	Design and Development of Scythe	Mechanical Engg.	Mr. Shrinivas V. Shelge	1.0 Lakh
15.	Eco-friendly Semi-Automatic Spray Pumps.	Mechanical Engg.	Mrs. Prachi D. Kale	1.0 Lakh
16.	Sustainable Solution to Use Irregular Shaped Agriculture Residues for Vermicomposting and Fuel Pellets.	Mechanical Engg.	Mr. Machindra S. Gaikwad	6.75 Lakh
17.	Experimental Investigation on Compositated Feedstock Derived From Sugarcane and Cow Dung/ Biogas Digester-Residues for Downdraft Gasifier.	Mechanical Engg.	Mr. Avinash H. Kolekar Mr. Machindra S. Gaikwad	11 Lakh
18.	Skill development training in rural area for self-employability through prototyping and application buildings.	Mechanical Engg.	Mr. Vishal B. Bhagwat Dr. Sachin M. Bhosle	2.5 Lakh
19.	Formulation, Development and Evaluation of Strengthening Strategy for Damaged RC Columns of Different Lengths in Structure using Fibre Reinforced polymer Composites.	Civil Engg.	Dr. Giridhar N. Narule	20 Lakh

20.	Development of Design Guidelines for Castellated Steel Beams (CSB).	Civil Engg.	Dr. Samadhan G. Morkhade	9.7 Lakh
21.	Applications Of Smart Materials And Equipments for Life Assessment And Structural Health Monitoring Of Existing Structures.	Civil Engg.	Dr. Chitranjan B. Nayak	20 Lakh
22.	Control of corrosion in agricultural equipments using aluminium coating.	Civil Engg.	Dr. Ravindra J. Patil Dr. Shirish C. Bali	17.10 lakh
23.	Propagation of Agro-Tourism Activity Among Farmers To Have More Income Sources And To Have Economic Development Of A Region.	Civil Engg.	Mr. Dilip G. Patil	4.5 Lakh
24.	Water Quality Assessment of Nira River.	Civil Engg.	Ms. Snehal R. Deshmukh	5.5 Lakh
25.	Experimental Study on Stabilization of Black Cotton Soil with Fly Ash, Molasses and Terra-Zyme.	Civil Engg.	Ms. Jyoti C. Bhong	40,000/-
26.	Ground Water Recharging system through water from thin air.	Civil Engg.	Ms. Pallavi A. Bokey	5.0 Lakh
27.	Effect of elevated temperature on high strength concrete manufactured by using Fly ash and red mud.	Civil Engg.	Mr. Kaustubh V. Raut	2.5 lakh
28.	Design of Sewerage System For Lakadi Village, Baramati	Civil Engg.	Mr. Dhiraj D. Ahiwale	13.0 lakh
29.	Light transmitting concrete: An Innovation towards the save of Environmental squalor.	Civil Engg.	Mr. Umesh T. Jagdale	5.0 lakh
30.	Smart Parking System: A Deep Learning Approach.	IT	Mr. Dinesh A. Zende	5 Lakh
31.	IOT and Machine Learning Based Smart Monitoring System for Sugarcane Crop Growth.	IT	Mr. Avinash Kokare Mrs. Komal Jadhav	1.57 lakh
32.	Face Spoofing Detection in Face Recognition.	IT	Mr. Santosh Shinde Mr. Keshav Bhagwat	80,000/-
33.	To Develop and Implement Face, Finger and Eye Expression based System for Public Voting Through IOT. D	Computer Engg.	r. Chaitanya Kulkarni	1.0 Lakh
34.	To design and implement Public Safety, Transportation & Consumer Services through IoT based system.	Computer Engg.	Dr. Chaitanya Kulkarni	52.500/-
35.	Grapes Disease Detection with CNN in Deep Learning.	Computer Engg.	Mr. Digambar M. Padulkar	20.0 Lakh
36.	Eleptic Curve Cryptography System with Blockchain for Agriculture Supply Chain Management.	Computer Engg.	Mr. Digambar M. Padulkar	25.0 Lakh
37.	Development of Portable Milk Flow cum Analyzer Meter for Small Dairy Farms.	E & TC Engg.	Dr. Rajveer K. Shastri	7.5 Lakh
38.	New Approach Towards Sustainable Development for Composting of Domestic Organic Garbage by using Microbes.	General Science	Dr. Nitin A. Jadhav	15.0 Lakh
			<b>Total Amount:-</b>	<b>4,73,09500</b>

**PROPOSALS SUBMITTED TO UNIVERSITY OF PUNE Under QIP\_SEMINAR/WORKSHOP GRANT 2019-20**

Title of Proposal	Investigator	Department	Amount	Remarks
SPPU_State Level Seminar on Scientific Communication	Dr. S.M. Bhosle	Mechanical Engg.	Rs.60,000/-	Proposal # VPKBIET/SPPU/08/2019/567-A Submitted on05/08/2019
SPPU_National level Seminar on Damage detection strategy of structures using smart materials: Theory and Practice	Dr. C. B. Nayak	Civil Engg.	Rs.75,500/-	Proposal # VPKBIET/SPPU/08/2019/567-A Submitted on 05/08/2019

SPPU_State Level Solar Photovoltaic System Design, installation & Business opportunities.	Nikhil Vaidya & P.N.Jaiswal	Electrical Engg.	Rs.67,000/-	Proposal # VPKBIET/SPPU/08/2019/567-A Submitted on 14/08/2019
<b>PROPOSALS SUBMITTED TO AICTE New Delhi Under AQIS GRANT 2019-20</b>				
<b>Title of Proposal</b>	<b>Investigator</b>	<b>Department</b>	<b>Amount</b>	<b>Remarks</b>
NewGen Innovation & Entrepreneurship Development Centre (NewGen I-EDC)	Dr. S.M. Bhosle	Mechanical Engg	Rs.2.87 Cr.	Submitted on 13/07/2019
AICTE_MODROBS_Transformation/Make-over of Conventional Machine Shop into Advanced Manufacturing Centre	Dr. S.M. Bhosle	Mechanical Engg	Rs.27.18 Lakhs	Submitted on 26/08/2019
Advancement of VLSI & Embedded System Design Lab. for Skill Enhancement and Product Development AQIS Application ID: 1-6334140322	Dr. Santosh Chede	E. & Tc.	RS. 19.97Lakh	Submitted on 28/08/2019
Modernization of Machine learning and Artificial intelligence Laboratory AQIS application id: 1-6334497061	Dr.Sheetal Takale	I.T.	Rs.17.87.Lakh	Submitted on 28/08/2019
Modernization of Electrical Machines Lab with relevance to real-time control of Induction Motor using AI. AQIS Application ID: 1-7124430671	Mr. Rohit Tarade	Electrical Engg.	7.32 Lakh	Submitted on 05/01/2020
STTP:Applications of structural dynamics in advanced sensing Technologies & Energy Harvesting of structures: Theory and Experiments AQIS Application id : 1-7094606611	Dr. C.B. Nayak	Civil Engg.	4.35 Lakh	Submitted on 30/12/2019
STTP: Advances in Steel Construction AQIS Application ID : 1-7097195971	Dr. Samadhan Morkhade	Civil Engg.	3.7 Lakh	Submitted on 04/01/2020
RPS: Study on Axial Behavior of Damaged Reinforced Concrete Column with Different Lengths Strengthened using Fiber Reinforced Polymer Composites. AQIS Application ID : 1-7123865825	Dr. G.N.Narule	Civil Engg.	21.29 lakh	Submitted on 04/01/2020
2 Weeks FDP: Smart Transparent Concrete - A New Innovation in Concrete Technology AQIS Application ID : 1-7124677061	Mr. Umesh Jagdale	Civil Engg.	5.37 Lakh	Submitted on 04/01/2020
MODROB : Implementation of smart materials and equipment for modernization and removal of obsolescence of concrete technology laboratory for structural health monitoring AQIS Application ID : 1-7118245028	Dr.C.B.Nayak	Civil Engg.	18.47Lakh	Submitted on 04/01/2020
<b>Total</b>			<b>127.29 Lakhs</b>	

<b>PROPOSALS SUBMITTED TO UNIVERSITY OF PUNE Under UNIVERSITY RESEARCH GRANT SCHEME 2018-20</b>				
<b>Title of Proposal</b>	<b>Investigator</b>	<b>Department</b>	<b>Amount</b>	<b>Remarks</b>
Experimental investigation of nanotextured titanium surfaces for orthopedic implant applications	Dr. S. M. Bhosle	Mechanical Engg.	Rs.11.2 Lakh	Proposal # 18TEC000327 Submitted on 29/08/2018 IT was shortlisted for second round but due to sort of fund, institute didn't allow to go ahead.
Design and development of plant phenotyping system using image processing for precision agriculture	Dr. R. K. Shastri	Electronics & Telecommunication Engg.	Rs.11.35 Lakh	Proposal # 18TEC000546 Submitted on 10/09/2018
<b>PROPOSALS SUBMITTED TO DST_SERB Under EARLY CAREER RESEARCH SCHEME 2018</b>				
<b>Title of Proposal</b>	<b>Investigator</b>	<b>Department</b>	<b>Amount</b>	<b>Remarks</b>
Structure Texture and Morphology Modulation of Working Electrode for fabrication of Efficient Perovskite Sensitized Solar Cells (PSSC)	Dr. Nitin Jadhav	Chemistry	Rs.36.70 Lakh	File # ECR/2018/002790/CS (Submitted online on 17th Aug 2018)
Experimental Investigation and Parametric Study for Failure Analysis of High Strength Steel Castellated Beams.	Dr. Samadhan Morkhade	Civil Engg	Rs.14.80 Lakh	File No : ECR/2018/000848/ES (Submitted online on 13th Aug 2018)
<b>PROPOSALS SUBMITTED TO UNIVERSITY OF PUNE Under UNIVERSITY RESEARCH GRANT SCHEME 2017-19</b>				
<b>Title of Proposal</b>	<b>Faculty</b>	<b>Date of application</b>	<b>Tentative Amount Rs.</b>	
Experimental investigation of Nano textured titanium surfaces for orthopedic implant applications	Dr. S. M. Bhosle (Mechanical Engg)	Submitted on 23/11/2017	Rs. 2.97 Lakh	
Experimental Investigation of composite feedstock derived from sugarcane residues and cow dung / biogas digester residues for downdraft gasifier	Prof. A.H.Kolekar (Mechanical Engg.)	Submitted on 27/11/2017	Rs. 3.03 Lakh	
Experimental Investigation of Multi Cylinder Spark Ignition Engine for Gaseous Fuels	Dr. P. R. Chitragar (Mechanical Engg.)	Submitted on 27/11/2017	Rs. 3.0 Lakh	
Experimental Investigation and Failure Analysis of Femoral bone implant	Prof.S.V.Shelge (Mechanical Engg.)	Submitted on 30/11/2017	Rs. 2.97 Lakh	
Performance analysis of multi tube heat exchanger for viscous fluid application	Prof. K. M. Jadhav (Mechanical Engg.)	Submitted 30/11/2017	Rs. 2.24 Lakh	
National Level Workshop - Steel Design Bridging the Gaps: Theory and Practice.	Dr. Sharad Ghodke (Civil Engg.)	Submitted and Sanction by University of Pune	Rs. 80,400/-	
State Level Workshop – Application of Power Electronics to Power Systems.	Dr. Mohan Thakare (Electrical Engg.)	Submitted and Sanction by University of Pune	Rs. 44,000/-	
A Systematic Approach for the Design, fabrication, and Testing of Microstrip Antennas Using Inkjet Printing Technology	Mr. Rohit Piske (Electronics and Telecommunication)	Submitted on 27/11/2017	-	

Parallel Implementation of Anisotropic Diffusion Algorithm for De-speckling of Ultrasound Video Images	Mr. Shrikrishna Kolhar (Electronics and Telecommunication)	Submitted on 27/11/2017	-	
An IoT Enabled Vehicular Emergency System	Mr. Santosh Kare (IT Engg.)	Submitted on 27/11/2017	-	
Automated Quantification of Diabetic Retinopathy(DR) Hard Exudate using Digital Image Processing	Mr. Devidas Kushnure (Electronics and Telecommunication)	Submitted on 27/11/2017	-	
Quantification and Identification of Huntington Disease in Brain using Digital Image Processing	Mr. Vinay Nagalkar (Electronics and Telecommunication)	Submitted on 27/11/2017	-	
Cardiac Arrhythmia Detection and Classification using Machine Learning Techniques	Mr. Sachin Trankatwar (Electronics and Telecommunication)	Submitted on 27/11/2017	-	
Design of Ultra Compact low power Rectenna for Wireless Energy Harvesting	Mr. Madan Jadhav (Electronics and Telecommunication)	Submitted on 27/11/2017	-	
A Novel approach towards Personal Health Information Management System (PHIS) based on SOA	Santosh Shinde Computer Engineering (IT Dept.)	Submitted on 27/11/2017	-	
Hybrid Based Video Watermarking for Video Security	Mr. Manoj Shelar (Computer Engineering)	Submitted on 27/11/2017	-	
Detection of Plant Disease using Image Processing	Mr. Rajkumar Panchal(Computer Engineering)	Submitted on 27/11/2017	-	
Finger Gesture Pattern recognition based security system using dynamic hand gestures	Mr. Deepak Gaikwad Computer Engineering (IT Dept.)	Submitted on 27/11/2017	-	
Design, Analysis and Prototyping of Axial Flux Machines	Mrs. Shreemanti Rokade (Electrical Engineering)	Submitted on 27/11/2017	-	
An approach towards Text Detection from complex images using Morphological Techniques	Mr. Venkatesh Rampurkar (Computer Engineering)	Submitted on 27/11/2017	-	
Vector Control of Three phase Induction Motor	Mr. Rohit Tarde (Electrical Engineering)	Submitted on 27/11/2017	-	
FPGA Implementation of Pipeline based Integer Wavelet Transform for Video Compression	Mr. Ajinkya Bankar (Electronics and Telecommunication)	Submitted on 27/11/2017	-	

Automatic Question Generation System	Mr. Avinash Kokare (IT Dept.)	Submitted on 27/11/2017	-	
Strength Behavior of the Fiber Reinforced Polymer Composite confined rectangular concrete column with variable corner radius.	Mr. Giridhar Naurle (Civil Engineering)	Submitted on 27/11/2017	-	
Automatic Determination of number of cluster for NMFCS Means Algorithms on Image Segmentation Engineering	Mr. Pradip Paithane (Computer Engineering)	Submitted on 27/11/2017	-	
Single Phase Bidirectional Inverter with Two Buck/Boost MPPT's for dc- distribution applications	Mr. Govind Devsuth (Electrical Engineering)	Submitted on 27/11/2017	-	
Power Device Based high Efficiency Solar Micro Inverter for Home Applications	Dr. Sudhir Lande (Electronics & Telecommunication)	Submitted on 27/11/2017	-	
An Electroencephalogram(EEG) Based Bio-metrics: A Human-Computer Interaction(HCI) Approach	Shashank Biradar (Electronics & Telecommunication)	Submitted on 27/11/2017	-	
Vibration response analysis of Particle Damper	Mr. Suraj Kumbhar (Mechanical Engg.)	Submitted on 27/11/2017	-	
Nutritional Diet Suggestion System for Individual	Mr. Prashant Raut (Computer Engg.)	Submitted on 27/11/2017	-	
Yoga recommendation for personal health care using Machine Learning Techniques	Mr. rajaram Ambole (Computer Engg.)	Submitted on 27/11/2017	-	
To study awareness and attitude of approved engineering professionals towards e-resources from engineering institutes affiliated to SPPU wrt Pune district	Mr. Chandrakant Shete (Library and Information Science )	Submitted on 27/11/2017	-	
Effect of road accessibility to property and road infrastructure on property value	Mr. Dilip Patil (Civil Engg.)	Submitted on 27/11/2017	-	
Fractional calculus and its application	Mrs. Gauri Bhoite (Engineering Sciences)	Submitted on 27/11/2017	-	
Engineering applications of Sumudu Transform	Mr. Deepak Sonawane (Engineering Sciences)	Submitted on 27/11/2017	-	
Laplace Transform and its applications	Dr. Anil Hiwarekar (Engineering Sciences)	Submitted on 27/11/2017	-	
Study of non linear optical phenomenon using laser	Dr. Nirmal Sahuji (Engineering Sciences)	Submitted on 27/11/2017	-	
Investigation of harmful heavy metals like lead and mercury in various samples	Dr. Aparna Sajjan (Engineering Sciences)	Submitted on 27/11/2017	-	

Strength and damage evaluation of fly ash based geopolymer concrete using PZT sensor	Mr. Umesh Jagdale (Civil Engg.)	Submitted on 27/11/2017	-	
Embedded expansion brillouin Sensor for monitoring corrosion of reinforcement in concrete structure	Mr. Chittaranjan Nayak (Civil Engg.)	Submitted on 27/11/2017	-	
Embedded expansion brillouin Sensor for monitoring corrosion of reinforcement in concrete structure	Mr. Chittaranjan Nayak (Civil Engg.)	Submitted on 27/11/2017	-	
Cancer Detection with Deep Learning	Mr. Digambar Padulkar (Computer Engg.)	Submitted on 27/11/2017	-	
Experimental Investigation of High Strength concrete using crushed sand	Mr. Rushikesh Khartode (Civil Engg.)	Submitted on 27/11/2017	-	
Experimental Study of bending behavior of hybrid high performance steel beams.	Dr. Samadhan Morkhade (Civil Engg.)	Submitted on 27/11/2017	-	
Experimental Investigation and failure analysis of Femoral bone implant	Mr. Shrinivas Shelge (Mechanical Engg.)	Submitted on 27/11/2017	-	
Parametric Optimization for Photochemical Machining of Cupro-Nickel and Red-Brass	Mr. H.P. Borate (Mechanical Engg.)	Submitted on 27/11/2017	-	
Experimental Investigation of Magneto sensitive vibration isolator	Mr. Pravin Dhandore (Mechanical Engg.)	Submitted on 27/11/2017	-	
Genetic Algorithm Assisted experimental investigation of centrifugal air compression for surge control	Ms. Mona Yadav (Mechanical Engg.)	Submitted on 27/11/2017	-	
Design and Performance Analysis of Free Space Optical communication link	Mr. S. S. Jagdale (Electronics & Telecommunication Engg.)	Submitted on 27/11/2017	-	

**STATUS REPORT - FUNDING PROPOSALS 2017**

<b>Title of Proposal</b>	<b>Faculty</b>	<b>Date of application</b>	<b>Tentative Amount Rs.</b>	<b>Specific Scheme and Funding Agency</b>
Smart Agro-Engineering Incubation Center	Principal & Dr. S.M. Bhosle	28th Sept 2017 (Not sanctioned)	9.38 Cr	AIM -NITI Aayog, Govt of India (Unique Identification Code # 25641616)
Bioinspired Nanotextured Surfaces for Titanium Orthopedic Implants	Dr. S.M. Bhosle	Submitted on 03rd Oct 2017 (Scheme discontinued by GOI)	178.31 Lacs	Project Executive Summary Submitted to Nano mission DST – Govt of India (Acknowledgement #4671)
Study the effect of applied stresses on the diffusion kinetics of low temp sensitisation and stress corrosion cracking behaviors of type 304L & 304 LN stainless steel.	Dr. S. C. Bali	Submitted 20th July 2017	Rs. 49.65 Lacs	DST-ECR
IPR workshop	Dr. S. B. Lande	10th March 2017	Rs. 3 Lacs	DEiTY, Ministry of Communication and IT (Approved)
Advance Rapid PCB Prototyping Lab	Dr. R. K. Shastri	Submitted in Yr 2016-17 but Not Sanctioned	Rs. 20 Lacs	AQIS – MODROB 2016-17

Techno economics design and control of hybrid renewable energy system with communication network	Dr. R. K. Shastri	Submitted in Yr 2016-17 but Not Sanctioned	Rs. 7 Lacs	Faculty Development Program, AQIS -2016-17
Nature inspired energy-efficient communication system for 5G networks (GreenNet) Project partner: University of Tromso, Norway.	Dr. Sanjaykumar Biswash	Submitted on 14th Sept 2017 (Left Institute)	Rs. 1.5 Cr	European Commission Project (Maricuri H2020 Project)
Usability Engineering of Social and Psychological Measurement for Optimized Project Scheduling in the Industry.	Dr. D. B. Hanchate	Submitted but Not Sanctioned	Rs. 18 Lacs	RPS, AQIS 2016-17
Sensitivity Analysis of Uncertainties associated with PAN evaporation in SEMI-ARID areas facing data scarcity	Dr. L.S. Pammar S	Submitted but Not Sanctioned	Rs. 18 Lacs	DST – SYST
Data Mining using Fixed Point Theory	Dr. G.A. Dhanorkar S	Submitted 12th Oct 2017	Rs. 3.60 Lacs	CSIR/NBHM
<b>Analysis of Lead and Mercury in Soil and Water Samples by Electro-Analytical Methods.</b>	<b>Dr. A.G. Sajjan</b>	<b>Submitted preliminary proposal on 19th Sept 2017</b>	<b>Rs. 15 Lakh</b>	<b>DST</b>
Modification of solid polymer electrolyte and working electrode for Fabrication of Perovskite Sensitized Solar Cells	Dr. N. A. Jadhav	Submitted (Shortlisted for Second Round)	Rs. 22.46 Lakh	DST-SERB

#### 10.17.2 List of publication out of research Project in last three years and out of Master Projects

- **Publications (if any) out of research in last three years out of masters projects(2019-20,2018-19,2017-18)**

Sr, No,	Title of Paper	Name of Author	Name of journal/conferences	Name of Publisher	department	Year of Publication
1	Parametric Study of Dome With and Without Opening	<b>Nayak, C.B., Jain, M.A. &amp; Walke, S.B</b>	J. Inst. Eng. India Ser. A, In Press,		Civil	2020
2	ural behaviour of castellated steel beams with reinforced web openings.	<b>Morkhade, S.G., Lokhande, R.S., Gund, U.D., Divate, A.B., Deosarkar, S. V., Chavan, M.U.</b>	Asian J Civ Eng		Civil	2020
3	Evaluation Seismic Response for Soft Storey Building Retrofitted with Infill, Steel Bracing and Shear Wall,	<b>Dhiraj D. Ahiwale, Rushikesh R. Khartode,</b>	Journal of Structural Technology,		Civil	2020
4	Study of Fly Ash, Rice Husk Ash and Marble Powder as Partial Replacement to Cement in Concrete,	<b>Dhiraj Ahiwale, Rushikesh Khartode,</b>	International Journal of Chem Tech Research		Civil	2020
5	Seismic Response for RC Frames on Sloping Ground using Pushover Analysis,	<b>Dhiraj Dipak Ahiwale, Rushikesh R. Khartode, Kaustubh V. Raut</b>	Journal of Structural Engineering and Management,		Civil	2020

6	Experimental study on flexural behaviour of light steel hollow flange beam with various stiffening arrangements.	<b>Raut K.V.</b> , Morkhade, S.G., Khartode, R.R., Ahiwale D.D	Innov. Infrastructure. Solut.		Civil	2020
7	Experimental and Numerical Investigation on Compressive and Flexural Behaviour Structural Tubular Beams Strengthening with AFRP Composites.,	<b>C. B. Nayak</b> ,	Journal of King Saud University - Engineering Sciences,		Civil	2020
8	An experimental based python programming for structural health monitoring of non engineered RC frame	<b>Umesh T. Jagadale</b> , Chittaranjan B. Nayak, Asmita Mankar, Sunil B. Thakare, Wasudeo N. Deulkar,	Innovative Infrastructure Solutions-Springer,	Springer,	Civil	2020
9	Performance and emission characteristics of biomethane-diesel dual-fuelled CI engine in the presence of exhaust gas recirculation,	<b>M. S. Gaikwad</b> , A. H. Kolekar, K. M. Jadhav, M. S. Yadav, and P. R. Chitragar,	International Journal of Ambient Energy		Mechanical	2020
10	CFD Analysis of Wind Turbine with Different Flange Angles. In: Voruganti H., Kumar K., Krishna P., Jin X. (eds) Advances in Applied Mechanical Engineering.	S. M. Bichitkar, P. P. Buddiyal, S. S. Chavan, A. A. Kulkarni, <b>V. B. Gawande</b> ,	Lecture Notes in Mechanical Engineering. Springer	Springer	Mechanical	2020
11	A Review on Circuits Implemented using Reversible Logic	<b>Premanand K. Kadbe</b> , Manisha G. Waje,	journal of Seybold Report,		ENTC	2020
12	Quality Improvements of Camera Captured Pictures using Blind and Non-blind Deconvolution Algorithms"	Pallavi U. Patil, <b>Sudhir B. Lande</b> , Vinay J. Nagalkar, Sonal B. Nikam,	International Journal of Recent Technology and Engineering		ENTC	2020
13	A Comprehensive Review on State-of-the-Art Image Inpainting Techniques.	<b>Balasaheb Patil</b> , & P.M., Patil.	Scalable Computing: Practice and Experience.		ENTC	2020
14	Hybrid Image Inpainting Model using Optimized DWT and Reproducing Kernel Hilbert Space for Removal of Damaged Portions of Old Images	<b>Balasaheb Patil</b>			ENTC	2020
15	Development of Environment Monitoring and Controlling System in Greenhouse Using IoT,	Rutuja Jagdale, Tejaswini Bagal, <b>Sonal Nikam</b> , Deepika Kore,	International Journal of Research in Engineering, Science and Management		ENTC	2020
16	An IoT Cloud Based ECG Monitoring System,	Vaishnavi Pisal, Ashwini Tarate, Shrutika Shinde, <b>Sonal Nikam</b> , Deepika Kore	International Journal of Research in Engineering, Science and Management		ENTC	2020

17	Predicting Temperature of the Computer System Using Machine Learning	Shubham Temkar, Chetan Bora, <b>Rohit Piske,</b>	International Journal of Research in Engineering, Science and Management,		ENTC	2020
18	Evaluation of Filtering Methods for Extraction of Dolphin Signals	<b>Rajveer Shastri,</b> Arnab Das,	Journal of Critical Reviews		ENTC	2020
19	Battery Life Improvement Technique for Electric Vehicle	Utkarsha Fulari, <b>Sudhir B. Lande,</b> Lokesh K. Bramhane, Manisha Lande,			ENTC	2020
20	Review on UWB Antenna Design with Band Stop Function by Implementing Parasitic Patch Method ICTACT	<b>Sudhir B. Lande,</b> Shashank Biradar, Sudhir M. Kharad, C.K. Thadani and Pallavi B. Pawar	JOURNAL ON MICROELECTRONICS		ENTC	2020
21	A Novel Hybrid Framework for Cuff-Less Blood Pressure Estimation based On Vital Bio Signals processing using Machine Learning,	<b>Santosh Shinde</b>	IJATCSE		IT	2020
22	Nutrient Content Estimation in Agricultural Automation	<b>Keshav Bhagwat</b>	IJRSEM		IT	2020
23	Implementation of DTC Controlled PMSM driven by a matrix converter.,	<b>N.B. Wagh</b>	International Journal of Recent Technology and Engineering(IJRTE )		Electrical	2020
24	Design of MCC Control Panel Using Electrical Autocad	<b>Nikhil Vaidya</b>	The International journal of analytical and experimental modal		Electrical	2020
25	Extension of prefunctions and its relation with Mittag-Leffler function	<b>A. P. Hiwarekar</b>	The Journal of Analysis		General Sciences	2020
26	Stuyging Salman Rushdie as a Postmodern Writer The Literary Kaleidoscope	<b>A. B. Patil,</b>	Bookshelves to Classroom		General Sciences	2020
27	Identity Crisis in Salman Rushdie's Selected Novels	<b>A. B. Patil</b>	Literature of Protest		General Sciences	2020
28	Postmodernism and Postmodern Literature: Analysis and Critical Interpretations	<b>A. B. Patil</b>	An International Multidisciplinary Quarterly Research Journal		General Sciences	2020
29	Quantification and Identification of Ischemic Stroke Using SVM	<b>Vinay J. Nagalkar, G. G. Sarate</b>	International Journal of Research and Analytical Reviews		ENTC	2019
30	Brain Tumor Detection Using Support Vector Machine	<b>Vinay J. Nagalkar, G. G. Sarate</b>	International Research Journal of Engineering and Technology		ENTC	2019

31	Blockchain technology in agriculture & food supply chain	<b>Suhir B. Lande,Chaitrali M. Sargar,C. K. Thadhani</b>	published in International journal of Research and analytical review		ENTC	2019
32	Statistical characterization of an underwater channel in a tropical shallow freshwater lake system,	<b>Jyoti Sadalage , Rashmi Sharma, Arnab Das,Yashwant Joshi</b>	Advances in Intelligent Systems and Computing, Springer book series,		ENTC	2019
33	A computationally-efficient model for determining sound speed in shallow tropical freshwater systems, with field validation	<b>Jyoti Sadalage, Rashmi Sharma, Arnab Das,Yashwant Joshi</b>	Journal of Lake and Reservoirs Research and Management, Wiley Publication	Wiley Publication	ENTC	2019
34	Validation of model-based techniques for characterization of surface sediment at Khadakwasala Lake with field data,	<b>Jyoti Sadalage, Rashmi Sharma, Arnab Das,Yashwant Joshi,</b>	Indian Journal of Geophysical Union,		ENTC	2019
35	Smart ECG Monitoring Wireless System	<b>Santosh Chede, Vyenktesh Girhepunje</b>	International Journal of Engineering and Advanced Technology		ENTC	2019
36	Hybrid image inpainting using reproducing kernel Hilbert space and dragonfly inspired wavelet transform	<b>Balasaheb H. Patil and P. M. Patil</b>	International Journal of Nano and Biomaterials		ENTC	2019
37	Parametric Study of Inset microstrip line fed Square Microstrip Patch Antenna for 10GHz Application	<b>Madan Jadhav</b>	International Journal of Research and Analytical Reviews		ENTC	2019
38	Next Generation Logic Gate Designs using Improved Polarity Control Bipolar Junction Transistor	<b>Lokesh Kumar Bramhane, Santosh D. Chede, Premanand K. Kadbe, Balasaheb Patil, Sudhir B. Lande</b>	International Journal of Recent Technology and Engineering		ENTC	2019
39	Dual Dielectrically Modulated Electrostatically Doped Tunnel-FET for Biosensing Applications	<b>Lokesh Kumar Bramhane, P.K. Kadbe, B.H. Patil, S.D. Chede and S.B. Lande</b>	International Journal on Emerging Technologies		ENTC	2019
40	Diabetic Retinopathy, an Eye Disease Prediction System: Survey	<b>G. J. Chhajed</b>	IJRASET		Comp	2019
41	Diabetic Retinopathy, An Eye Disease Prediction System using Convolutional Neural Network	<b>G. J. Chhajed</b>	IJRASET		Comp	2019
42	Medicine Manufacturing Supply Chain Management System Using Blockchain	<b>G. J. Chhajed</b>	IJARCE		Comp	2019

43	Binary Image Steganography using Flipping Distortion Technique	<b>G. J. Chhajed</b>	IJRASET		Comp	2019
44	Behaviour of Castellated Steel Beam: State of the Art Review,	<b>Morkhade S. G., Gupta L. M</b>	Electronic Journal of Structural Engg		Civil	2019
45	Seismic performance of existing water tank after condition ranking using non destructive testing,	<b>C. B. Nayak, S.B.Thakare</b>	International J.of Advanced Structural Engg		Civil	2019
46	Comparative study of effect of web openings on the strength capacities of steel beam with trapezoidally corrugated web,	<b>Morkhade S. G., Swami M. Baswaraj, Chittranjan B. Nayak,</b>	Asian Journal of Civil Engg,		Civil	2019
47	Ultimate load behaviour of steel beams with web openings	<b>Morkhade S. G., Gupta L. M.,</b>	Australian Journal of Structural Engg		Civil	2019
48	Behavior of RC T-Beam strengthen using basalt fiber reinforced polymer (FRP) sheet,	<b>Narule, G. N. and Surwase H.,</b>	International Research Journal of Engineering and Technology		Civil	2019
49	Analytical study of effect of web opening on flexural behaviour of hybrid beams	<b>Morkhade S.G., Kshirsagar M., Dange R., Patil A.</b>	Asian Journal of Civil Engg		Civil	2019
50	Design of MCC control panel using Electrical AutoCAD”	<b>Mr. Nikhil Vaidya</b>	The International journal of analytical and experimental model,		Elect	2019
51	Energy Audit: A Case of an Industrial Area,	<b>Mr. Rohit S. Tarade, Mr. Dipak S. Yeole Mr. Pavan D. Upadhye,</b>	Journal of Applied Science and Computations		Elect	2019
52	Application of graph-theoretic approach for the evaluation of lean-six-sigma (LSS) critical-success-factors (CSFs) facilitating quality-audits in Indian small & medium enterprises (SMEs),	<b>M. S. Lande , D. Seth, R. L Shrivastava</b>	International Journal of Quality & Reliability,		Mech	2019
53	IN VIVO ANTI-BACTERIAL EFFECTIVENESS OF NANOTEXTURED TITANIUM IMPLANT SURFACES,	<b>CR Friedrich, E Baker, S. M. Bhosle, D Justin</b>	Orthopaedic Proceedings		Mech	2019
54	Value Stream mapping in Press Shop	<b>M. S. Lande, N. K. Mandavgade</b>	International Journal of Innovations in Engineering & Science		Mech	2019
55	Recent advancement in heat transfer and fluid flow characteristics in cross flow heat exchangers,	<b>C. K. Mangrulkar, A. S. Dhoble, S. Chamoli, A. Gupta, V. B. Gawande,</b>	Renewable and Sustainable Energy Reviews,		Mech	2019

56	Luminescence and ESR study of Gd <sup>3+</sup> doped Ca <sub>3</sub> Al <sub>2</sub> O <sub>6</sub> phosphor,	<b>Vijay Singh, N. Singh, M.S. Pathak, V. Natarajan, and Nitin A. Jadhav</b>	Optik - International Journal for Light and Electron Optics,	Elsevier	General Sciences	2019
57	Photoluminescence and electron paramagnetic resonance properties of UV-B light emitting Gd <sup>3+</sup> activated Y <sub>2</sub> O <sub>3</sub> phosphor prepared by sol-gel method,	<b>Vijay Singh, N. Singh, M.S. Pathak S. Watanabe, T.K. Gundu Rao Nitin A. Jadhav, and Young-Wan Kwon</b>	Optik - International Journal for Light and Electron Optics,	Elsevier	General Sciences	2019
58	Effect of Sm <sup>3+</sup> substitution on the structural and magnetic properties of Ni-Co nanoferrites	<b>M.K. Kokare, Nitin A. Jadhav, Vijay Singh and S.M. Rathod,</b>	Optics and Laser Technology,	Elsevier	General Sciences	2019
59	Hydrothermal Growth and Humidity-Dependent Electrical Properties of Molybdenum Disulphide Nanosheets,	<b>Nitin T Shelke, S. C. Karle, B R Karche</b>	Journal of Nanoscience and Nanotechnology	American Scientific Publishers	General Sciences	2019
60	Hydrothermal growth of MoSe <sub>2</sub> nanoflowers for photo- and humidity sensor applications	<b>Nitin T Shelke, Dattatray J Late,</b>	Sensors and Actuators A: Physical	Elsevier	General Sciences	2019
61	Dielectric Relaxation and FTIR Studies on Molecular Interaction between Ethylene Glycol Monobutyl Ether with Bromobenzene and Chlorobenzene	<b>A. S. Disale, P. B. Undre, S. A. Yaseen, F. A. Saif, A. S. Alameen, S. S. Patil &amp; P. W. Khirade</b>	Integrated Ferroelectrics: An International Journal	Taylor and Francis	General Sciences	2019
62	Innovative Ways of Teaching English to Students of Rural India: Challenges and Corrective Measures Empowering Students of Bharat with English for Career Development	<b>A. B. Patil</b>			General Sciences	2019
63	Enhanced Bone Fixation by Nano-Texturing via Titanium Oxide nanotube anodization,	<b>D. Justin, CR. Friedrich, S. M. Bhosle, E. Baker, SH. Jin, C. Pratt</b>	Orthopaedic Proceedings		Mech	2018
64	Analysis of the effects of use of thermal energy storage device (TESD) in solar air heater,	<b>A. Wadhawan, A. S. Dhoble, V. B. Gawande</b>	Alexandria Engineering Journal		Mech	2018
65	Thermal performance evaluation of solar air heater using combined square and equilateral triangular rib roughness,	<b>V.B. Gawande, A. S. Dhoble, D. B. Zodpe, S.G. Fale,</b>	Australian Journal of Mechanical Engineering		Mech	2018
66	A comparative analysis of thermo-hydraulic performance of a roughened solar air heater using various rib shapes	<b>V.B. Gawande, A. S. Dhoble, D. B. Zodpe, C Mangrulkar,</b>	Australian Journal of Mechanical Engineering,		Mech	2018

67	Effect of hydrogen addition on combustion and emissions performance of a high speed spark ignited engine at idle condition.	<b>K. V. Shivaprasad, P. R. Chitragar, G. N. Kumar,</b>	Thermal Science		Mech	2018
68	Combustion characteristics of biomethane–dieseldual-fueled CI engine with exhaust gasrecirculation	<b>M. S. Gaikwad, K. M. Jadhav, A. H. Kolekar, P. R. Chitragar,</b>	Biofuels,		Mech	2018
69	Nighttime Vehicle Detection System Using Bio-Inspired Image Enhancement	<b>G. J. Chhajed</b>	JNIC		Comp	2018
70	Convolutional Neural Network To Automatic Quality Assessment Of Echocardiography In Apical Four Chamber	<b>G. J. Chhajed</b>	IJREAM		Comp	2018
71	Development of Unsupervised Method for Product Aspect Rating Using Customer Reviews	<b>G. J. Chhajed</b>	IJREAM		Comp	2018
72	FPAA Based Design of Assistive Listening Device for Hearing Disorders People,	<b>Dr. Sudhir B. Lande, Suresh S. Balpande</b>	Helix		ENTC	2018
73	SIMULATION AND ANALYSIS OF TEMPERATURE EFFECT ON 7 nm n-MOSFET Open Access	<b>Gayatri Gaikwad, Milan Sasmal, Sudhir Lande</b>	International Journal of Science& Engineering		ENTC	2018
74	Analysis of Received Signal Strength in Wireless Network of Fireword V Robot	<b>Snehal Kokare, Rajveer Shastri, Shrikrashna Kolhar</b>	International Journal of Advance Robotics & Expert Systems		ENTC	2018
75	Crow search algorithm with Discrete Wavelet Transform to aid Mumford Shah inpainting model Evolutionary Intelligence	<b>Balasaheb H. Patil and P. M. Patil</b>			ENTC	2018
76	Object Removal using Improved Exemplar based method in Image Inpainting	<b>Balasaheb H. Patil and P. M. Patil</b>	International Journal of Science and Technology		ENTC	2018
77	Performance Comparison of PID Controller and Fuzzy Logic Controller for Speed Control of DC Motors	<b>K. Jakkani, Govind Devsut,</b>	Journal of Applied Science and Computations		Elect	2018
78	A Novel Three Phase Voltage Source Converter Fed PMSM Drive	<b>N. B. Wagh,</b>	IAETSD JOURNAL FOR ADVANCED RESEARCH IN APPLIED SCIENCES,		Elect	2018
79	Concept and Implementation of Self-Parking Chair	<b>N. B. Wagh</b>	International Journal of Scientific Research in Science, Engineering and Technology		Elect	2018

80	Intelligent health risk prediction systems using machine learning a review	<b>Mr Santosh A. Shinde, Dr P. Raja Rajeswari</b>	International Journal of Engineering & Technology		IT	2018
81	Axial behavior of CFRP wrapped RC columns of different shapes with constant lenderness ratio,	<b>Narule, G. N. and Bambole, A. N</b>	Structural Engineering and Mechanics,		Civil	2018
82	Comparative study of ultimate load for castellated and plain-webbed beams	<b>Samadhan G. Morkhade, Subhan Shaikh, Ajay Kumbhar, Abdulaziz Shaikh, Rushikesh Tiwari,</b>	International Journal of Civil Engineering and Technology		Civil	2018
83	Studies on polarization effect of polyethylene-based polymer electrolyte in dye and quantum dot sensitized solar cells,	<b>Karan Surana Nitin A. Jadhav Pramod K. Singh B. Bhattacharya</b>	Applied Nanoscience		General Science	2018
84	PL and ESR Study on UVB-Emitting Gadolinium-Doped BaMgAl10O17 Hexagonal Phase Obtained by Combustion Synthesis,	<b>Vijay Singh, N. Singh, M.S. Pathak, V. Natarajan, and Nitin A. Jadhav,</b>	Journal of ELECTRONIC MATERIALS,		General Science	2018
85	Effect of Nd <sup>3+</sup> Doping on Structural and Magnetic Properties of Ni <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> Nanocrystalline Ferrites Synthesized by Sol-gel Auto Combustion Route	<b>M.K. Kokare, Nitin A. Jadhav, Yogesh Kumar, K.M. Jadhav, S.M. Rathod</b>	Journal of alloys and compounds,		General Science	2018
86	Photosensor properties of spray deposited CdS thin films,	<b>Nitin T Shelke , S. C. Karle, B R Karche,</b>	International Journal of Multifaceted and Multilingual Studies		General Science	2018
87	Synthesis, Characterization and Optical Properties of AgIn <sub>2</sub> Se <sub>4</sub> Thin Films by Electrodeposition technique	<b>Y.M.Chitare, H.R.Kulkarni, A.S.Disale</b>	International Journal of Multifaceted and Multilingual Studies		General Science	2018
88	Interpreting Salman Rushdie as a Postmodern Writer, Asian Quarterly	<b>A. B. Patil,</b>	An International Journal of Contemporary		General Science	2018
89	A case study on predictive maintenance of OJ/5522DT-40 CNC milling machine	<b>M. S. Lande , P. M. Sirsat, R. S. Tupkar,</b>	International journal of advanced research and publication		Mech	2017
90	Wetting behavior and chemistry of titanium nanotubular orthopedic surfaces: Effects of aging and thermal annealing,	<b>S. M. Bhosle, CR. Friedrich</b>	Springer Journal of Bio-Tribo Corrosion,	Springer	Mech	2017
91	Facile Synthesis of Nanosilver-Incorporated Titanium Nanotube for Antibacterial Surfaces,	<b>S. M. Bhosle, CR. Friedrich</b>	Springer Journal of Bio-Tribo Corrosion,	Springer	Mech	2017

92	Rapid Heat Treatment for Anatase Conversion of Titania Nanotube Orthopedic Surfaces	<b>S. M. Bhosle , CR. Friedrich</b>	IOP Journal of Nanotechnology,	IOP	Mech	2017
93	Accelerated test for evaluation of intergranular stress corrosion cracking initiation characteristics of non-sensitized 316 austenitic stainless steel in simulated pressure water reactor environment,	<b>X. Zhong, S.C. Bali, T. Shoji,</b>	Corrosion Science		Mech	2017
94	Effects of dissolved hydrogen and surface condition on the intergranular stress corrosion cracking behavior of non-sensitized 316 stainless steel in simulated PWR primary water	<b>X. Zhong, S.C. Bali, T. Shoji</b>	Corrosion Science,		Mech	2017
95	Sizing analysis of louvered fin flat tube compact heat exchanger by genetic algorithm,	<b>M. S. Yadav, S. A. Giri, V. C. Momale,</b>	Applied Thermal Engineering,		Mech	2017
96	Influence of spark timing on the performance and emission characteristics of gasoline–hydrogen-blended high-speed spark-ignition engine,	<b>K. V. Shivaprasad, P. R. Chitragar, V. Nayak, G. N. Kumar,</b>	International Journal of Ambient Energy		Mech	2017
97	Study Partners Recommendation for Online Courses	<b>G. J. Chhajed</b>	IJSRCSEIT		Comp	2017
98	Survey paper on Eye Gaze Tracking Methods and Techniques	<b>G. J. Chhajed</b>	IRJET		Comp	2017
99	Computer Vision System for Eye Gaze Tracking	<b>G. J. Chhajed</b>	IJMCS		Comp	2017
100	How Flickr Helps to Know the Place: Visual and Textual Summarization of Geo-location, ICSE	<b>S. A. Takale, P. J. Kulkari,</b>	International Journal of Computer Science and Engineering		IT	2017
101	Design and Analysis of Compact UWB Antenna with Band Notch Characteristics	<b>Pallavi. B. Pawar, Sudhir. B. Lande, P. K. Kadbe</b>	International Journal of Electronics, Electrical and Computational System		ENTC	2017
102	Network on Chip router with power management unit for Improved network fabric power efficiency	<b>Mohammad Waseem Khanooni, . D. Chede</b>	International journal of recent trends in Engineering and Research		ENTC	2017
103	NoC Router with Dedicated Power Management Unit	<b>Mohammad Waseem Khanooni, S. D. Chede</b>	International Journal for research in Applied Science & Engineering Technology		ENTC	2017

104	Low complexity frequency logic controller for Network on chip router Elixir	<b>Mohammad Waseem Khanooni, S. D. Chede</b>	Internal Joujrnal Engg		ENTC	2017
105	Survey of Power Optimization Techniques for Network on Chip	<b>Mohammad Waseem Khanooni, S. D. Chede</b>	Recent Trends in control and optimization of power systems		ENTC	2017
106	Review on Compact Slot Antenna for Dual-band WLAN Applications	<b>Nilima L Asabe, Vikas U Deshmukh</b>	International Research Journal of Engineering and Technology		ENTC	2017
107	Review Paper on Design of a Coplanar Integrated Microstrip Antenna for ITS Applications	<b>DA Jagtap, V.U. Deshmukh</b>	International Research Journal of Engineering and Technology		ENTC	2017
108	Review Paper on Design of Integrated Multi Band UWB Antenna for Wireless Applications	<b>B.B. Malshikhare, M.M. Jadhav</b>	International Research Journal of Engineering and Technology		ENTC	2017
109	Two-zone SiGe base heterojunction bipolar charge plasma transistor for next generation analog and RF applications	<b>Lokesh Kumar Bramhane, Jawar Singh</b>	Superllattice & Microstructure		ENTC	2017
110	Improved performance of bipolar charge plasma transistor by reducing the horizontal electric field	<b>Lokesh Kumar Bramhane, Jawar Singh</b>	Superllattice & Microstructure		ENTC	2017
111	Wireless Real Time Monitoring and Controlling of Irrigation System	<b>Kushnure Devidas, More Poonam, Padamalakar Dhanashri, Padavale Pooja</b>	International Journal of Advanced Research in Computer and Communication Engineering		ENTC	2017
112	Implementation of FM Transceiver using Software Defined Radio (SDR)	<b>Kushnure Devidas, Murtaza Jiniyawala, Sushama Molawade, Snehal Patil</b>	International Journal of Engineering Development and Research		ENTC	2017
113	To Design and Develop Single Phase Grid Tie PV Inverter and Measurement of THD,	<b>Varsha H. Patil, Jyoti Sachin Kulkarni,</b>	Asian journal of Convergence in Technology		Elect	2017
114	Resonant DC – DC Buck - Boost Converter for the Battery Charger and PV Applications	<b>Govind D., Wagh N. B.</b>	International Journal of Electronics, Electrical and Computational System		Elect	2017
115	Resonant DC – DC Buck -Boost Converter for the Battery Charger and PV Applications,	<b>N.B. Wagh</b>	International Journal of Electronics, Electrical and Computational System (Academic Science publisher)- UGC Journal IJECS	Academic Science publisher	Elect	2017

116	Analysis and retrofitting of elevated water tank in Pune district: by Uttarkashi Earthquake	<b>C. B. Nayak and S. B. Thakare</b>	Journal of Engineering Technology		Civil	2017
117	Experimental investigation for failure analysis of steel beams with web openings	<b>Morkhade S. G., Gupta L. M</b>	Steel and Composite Structures,		Civil	2017
118	Ultraviolet photosensor based on few layered reduced graphene oxide nanosheets	<b>Nitin T Shelke, B R Karche</b>	Applied Surface Science		General Science	2017

### 10.17.3 Consultancy ( Academic year-2020-21)

Company Name	Company Sector	Incorporation Status	Type of Consultancy /Service	Title of Consultancy /Service	Faculty First Name	Discipline	Fee Received From Industry (in Rs)
C/O Assistant Engineer, Irrigation Sub. Dn. Office, Baramati, Ms. Desai Infra Project Pvt. Ltd.	Construction	Private	Service	Testing of construction materials	Mr. U. T. Jagadale, Dr C. B. Nayak, Dr G. N. Narule	Civil Engineering	34000
Phalake Atul Uttamrao and Phalake Subhash Wamanrao	Construction	Private	Service	Concrete Mix Design	Mr. U. T. Jagadale, Dr C. B. Nayak, Dr G. N. Narule	Civil Engineering	11000
C/O Assistant Engineer, Irrigation Sub. Dn. Office, Baramati, Ms. Desai Infra Project Pvt. Ltd.	Construction	Government	Service	Specific Gravity of Aggregate	Mr D. D. Ahiwale, Dr C. B. Nayak Dr G. N. Narule	Civil Engineering	605
Precision Weighing System	Construction	Private	Service	Compressive strength test on concrete cube	Mr. U. T. Jagadale, Dr C. B. Nayak, Dr G. N. Narule	Civil Engineering	990
Zha Construction Daund	Construction	Private	Service	Compressive strength test on concrete cube	Mr. U. T. Jagadale, Dr C. B. Nayak, Dr G. N. Narule	Civil Engineering	2970
Precision Weighing System	Construction	Private	Service	Compressive strength test on concrete cube	Mr. U. T. Jagadale, Dr C. B. Nayak, Dr G. N. Narule	Civil Engineering	990
Precision Weighing System	Construction	Private	Service	Rebound Hammer Test	Mr. U. T. Jagadale, Dr C. B. Nayak, Dr G. N. Narule	Civil Engineering	2420
Sairaj Developers, Baramati	Construction	Private	Service	Compressive strength test on concrete cube	Mr. U. T. Jagadale, Dr C. B. Nayak, Dr G. N. Narule	Civil Engineering	1785
<b>Total Amount = 54760/-</b>							

- List of consultancy work ( 2016- 20)

Company Name	Company Sector	Incorporation Status	Type of Consultancy /Service	Title of Consultancy /Service	Year	Faculty First Name	Discipline	Fee Received From Industry (in Rs)
Karne construction	Real Estate	Private	Consultancy & Advisory Service	Construction of office work at Baramati agro ltd. pimpali	2016-2017	Umesh Jagdale	Civil Engineering and Allied	10000
Karne construction	Real Estate	Private	Consultancy & Advisory Service	Extension of Baramati agro office at pimpali, baramati	2016-2017	Umesh Jagdale	Civil Engineering and Allied	13500
Karne construction	Real Estate	Private	Consultancy & Advisory Service	Extension of Baramati agro office at pimpali, baramati	2016-2017	Umesh Jagdale	Civil Engineering and Allied	2700
Surabhi construction	Real Estate	Private	Consultancy & Advisory Service	ETP Project work	2016-2017	Umesh Jagdale	Civil Engineering and Allied	900
Laxmi Civil engineering services pvt.	Real Estate	Private	Consultancy & Advisory Service	Malad water supply scheme, Baramati	2016-2017	Umesh Jagdale	Civil Engineering and Allied	2000
Shri chhatrapati s.s.k.ltd Bhavaninagar	Agriculture	Cooperative	Consultancy & Advisory Service	Gogen work	2016-2017	Umesh Jagdale	Civil Engineering and Allied	3350
Shri chhatrapati s.s.k.ltd Bhavaninagar	Agriculture	Cooperative	Consultancy & Advisory Service	Gogen work	2016-2017	Umesh Jagdale	Civil Engineering and Allied	2700
Shri chhatrapati s.s.k.ltd Bhavaninagar	Agriculture	Cooperative	Consultancy & Advisory Service	Gogen work	2016-2017	Umesh Jagdale	Civil Engineering and Allied	4250
Sandeep Khele and Associates	Real Estate	Private	Consultancy & Advisory Service	Compound wall for Ferrero company	2016-2017	Umesh Jagdale	Civil Engineering and Allied	3300
Baramati Nagarparishad	Others	Government Body	Consultancy & Advisory Service	Third Party Audit	2016-2017	Giridhar Narule	Civil Engineering and Allied	56400
Phadatare Polytechnic, Kalamb	Education	Private	Consultancy & Advisory Service	Students Practicals	2016-2017	Giridhar Narule	Civil Engineering and Allied	3000
Shri chhatrapati s.s.k.ltd Bhavaninagar	Agriculture	Cooperative	Consultancy & Advisory Service	ETP Project work	2017-2018	Umesh Jagdale	Civil Engineering and Allied	2700

Bright- Texmaco- JV	Real Estate	Private	Consultanc y & Advisory Service	Construction of OHE Foundation for Railway electrical work between Daund Baramati Section	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	1350
Shri chhatrapati s.s.k.ltd Bhavaninag ar	Agricultu re	Cooper ative	Consultanc y & Advisory Service	Concrete Cube Testing	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	1800
Phadatare Polytechnic, Kalamb	Educatio n	Private	Consultanc y & Advisory Service	Students Practicals	2017- 2018	Dhiraj	Civil Engineeri ng and Allied	2000
Shri chhatrapati s.s.k.ltd Bhavaninag ar	Agricultu re	Cooper ative	Consultanc y & Advisory Service	ETP Project work	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	7050
Sandeep Khele and Associates	Real Estate	Private	Consultanc y & Advisory Service	Paver Block Testing	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	1250
Sandeep Khele and Associates	Real Estate	Private	Consultanc y & Advisory Service	Paver Block Testing	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	666
Bharuka Constructio n, Aurangabad	Real Estate	Private	Consultanc y & Advisory Service	Procter Density Test	2017- 2018	Jyoti Bhong	Civil Engineeri ng and Allied	6919
Gourav Engineers,B aramati	Real Estate	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	900
Utkarsh Pvt Ltd.	Real Estate	Private	Consultanc y & Advisory Service	Construction of Farm Office	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	18900
Shri chhatrapati s.s.k.ltd Bhavaninag ar	Agricultu re	Cooper ative	Consultanc y & Advisory Service	Aggrigate and Bitumen Testing	2017- 2018	Dhiraj Ahiwale	Civil Engineeri ng and Allied	30000
Gourav Engineers,B aramati	Real Estate	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	450
Gourav Engineers,B aramati	Real Estate	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	450
Bharuka Constructio n, Aurangabad	Real Estate	Private	Consultanc y & Advisory Service	Material Testing	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	30700
Sandeep Khele and Associates	Real Estate	Private	Consultanc y & Advisory Service	Paver Block Testing	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	666
Gourav Engineers,B aramati	Real Estate	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2017- 2018	Umesh Jagdale	Civil Engineeri ng and Allied	450

Utkarsh Pvt Ltd.	Real Estate	Private	Consultancy & Advisory Service	Construction of Farm Office	2017-2018	Umesh Jagdale	Civil Engineering and Allied	10800
Cottonking	Textiles	Private	Consultancy & Advisory Service	Ultrasonic Concrete Test	2017-2018	Umesh Jagdale	Civil Engineering and Allied	7800
S.P.Lifestyle Brand Pvt Ltd	Textiles	Private	Consultancy & Advisory Service	Core Concrete Test	2017-2018	Umesh Jagdale	Civil Engineering and Allied	2700
Kalyani Global Engg Pvt.Ltd	Engineering	Private	Consultancy & Advisory Service	Concrete Cube Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	1350
Utkarsh Pvt Ltd.	Real Estate	Private	Consultancy & Advisory Service	Concrete Cube Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	1350
Kalyani Global Engg Pvt.Ltd	Engineering	Private	Consultancy & Advisory Service	Concrete Cube Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	1350
Kalyani Global Engg Pvt.Ltd	Engineering	Private	Consultancy & Advisory Service	Concrete Mix Design	2017-2018	Umesh Jagdale	Civil Engineering and Allied	10000
Shri chhatrapati s.s.k.ltd Bhavaninagar	Agriculture	Cooperative	Consultancy & Advisory Service	Concrete Cube Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	8100
Utkarsh Pvt Ltd.	Real Estate	Private	Consultancy & Advisory Service	Concrete Cube Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	5400
Kalyani Global Engg Pvt.Ltd	Engineering	Private	Consultancy & Advisory Service	Testing of Construction Material	2017-2018	Umesh Jagdale	Civil Engineering and Allied	13860
Shri chhatrapati s.s.k.ltd Bhavaninagar	Agriculture	Cooperative	Consultancy & Advisory Service	Concrete Cube Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	3000
Kalyani Global Engg Pvt.Ltd	Engineering	Private	Consultancy & Advisory Service	Concrete core Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	900
Kalyani Global Engg Pvt.Ltd	Engineering	Private	Consultancy & Advisory Service	Concrete core Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	900
Kalyani Global Engg Pvt.Ltd	Engineering	Private	Consultancy & Advisory Service	Concrete core Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	900
Kalyani Global Engg Pvt.Ltd	Engineering	Private	Consultancy & Advisory Service	Concrete Cube Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	1350
Utkarsh Pvt Ltd.	Real Estate	Private	Consultancy & Advisory Service	Concrete Cube Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	4050

Utkarsh Pvt Ltd.	Real Estate	Private	Consultancy & Advisory Service	Concrete Cube Testing	2017-2018	Umesh Jagdale	Civil Engineering and Allied	1350
Savitribai Phule Pune University	Education	Government Body	Contractual Research	Experimental Investigation and analysis of dynamic response of conical compression spring in comparison with cylindrical in shock absorber		Prachi Kale	Mechanical Engineering and Allied	170000
Savitribai Phule Pune University	Education	Government Body	Contractual Research	Critical card fraud detection using data mining techniques		Dinesh Zende	Computer & IT Engineering and Allied	63000
Savitribai Phule Pune University	Education	Government Body	Contractual Research	Side Scan Sonar Image Analysis, An application to Sediment Classification		Jyoti Rangole	Electronics Engineering and Allied	140000
Savitribai Phule Pune University	Education	Government Body	Contractual Research	An Image Processing Solution to Frozen semen straw counting problem		Aparna Shatri	Electronics Engineering and Allied	160000
Savitribai Phule Pune University	Education	Government Body	Contractual Research	EEG based emotion recognition		Parshuram Arotale	Electronics Engineering and Allied	110000
Savitribai Phule Pune University	Education	Government Body	Contractual Research	Use Social media to know the place : Visual summerization of Geo-location using social media		Dr.Sheetal Takale	Computer & IT Engineering and Allied	100000
Savitribai Phule Pune University	Education	Government Body	Contractual Research	Finding heart rate, heart rate variability, respiration rate, oxygen saturation level from video recording by laptop or smart phone		Gyankamal Chhajed	Computer & IT Engineering and Allied	72000
RVNL Baramati	Engineering	Private	Consultancy & Advisory Service	Concrete Cube Testing	2018-19	Umesh Jagdale	Civil Engineering and Allied	1485
RVNL Baramati	Engineering	Private	Consultancy & Advisory Service	Concrete Cube Testing	2018-19	Umesh Jagdale	Civil Engineering and Allied	2970

Bright- Texmaco- JV	Engineeri ng	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2018- 19	Umesh Jagdale	Civil Engineeri ng and Allied	2970
Bright Power projects pvt. Ltd	Engineeri ng	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2018- 19	Umesh Jagdale	Civil Engineeri ng and Allied	4455
RVNL Baramati	Engineeri ng	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2018- 19	Umesh Jagdale	Civil Engineeri ng and Allied	495
Bright Power projects pvt. Ltd	Engineeri ng	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2018- 19	Umesh Jagdale	Civil Engineeri ng and Allied	9295
Govind Millk Phalatan	Engineeri ng	Private	consultanc y & Advisory Service	Ultrasonic Pulse Velocity	2018- 19	Umesh Jagdale	civil Engineeri ng and Allied	6435
Govind Millk Phalatan	Engineeri ng	Private	consultanc y & Advisory Service	Ultrasonic Pulse Velocity	2018- 19	Umesh Jagdale	civil Engineeri ng and Allied	7150
Bright- Texmaco- JV	Engineeri ng	Private	consultanc y & Advisory Service	Concrete Cube Testing	2018- 19	Umesh Jagdale	civil Engineeri ng and Allied	2970
Bright- Texmaco- JV	Engineeri ng	Private	consultanc y & Advisory Service	Concrete Cube Testing	2018- 19	Umesh Jagdale	Civil Engineeri ng and Allied	7425
Bright- Texmaco- JV	Engineeri ng	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2018- 19	Umesh Jagdale	Civil Engineeri ng and Allied	4455
Bright- Texmaco- JV	Engineeri ng	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2018- 19	Umesh Jagdale	Civil Engineeri ng and Allied	1485
Bright Power projects pvt. Ltd	Engineeri ng	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2018- 19	Umesh Jagdale	Civil Engineeri ng and Allied	1485
Bright Power projects pvt. Ltd	Engineeri ng	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2018- 19	Umesh Jagdale	Civil Engineeri ng and Allied	1485
Bharuka Constructio n, Aurangabad	Engineeri ng	Private	Consultanc y & Advisory Service	Concrete Cube Testing	2018- 19	Umesh Jagdale	Civil Engineeri ng and Allied	30681

Shri chhatrapati s.s.k.ltd Bhavaninagar	Engineering	Private	Consultancy & Advisory Service	Concrete Cube Testing	2018-19	Umesh Jagdale	Civil Engineering and Allied	1800
Bright Power projects pvt. Ltd	Engineering	Private	Consultancy & Advisory Service	Concrete Cube Testing	2018-19	Umesh Jagdale	Civil Engineering and Allied	1350
Shri chhatrapati s.s.k.ltd Bhavaninagar	Engineering	Private	consultancy & Advisory Service	Concrete Cube Testing	2018-19	Umesh Jagdale	Civil Engineering and Allied	2700

#### 10.17.4 Industry Linkage –

Company Name	Company Sector	Incorporation Status	Year	Level	Discipline
Zensar	IT	Private	2017-2018	Degree	Computer & IT Engineering and Allied (NIT, IIT, IIIT)
Incubxperts	IT	Private	2017-2018	Degree	Computer & IT Engineering and Allied (NIT, IIT, IIIT)
Raykor	IT	Private	2017-2018	Degree	Computer & IT Engineering and Allied (NIT, IIT, IIIT)
Extentia Information Technology Private Limited	IT	Private	2017-2018	Degree	Computer & IT Engineering and Allied (NIT, IIT, IIIT)
Syntel	IT	Private	2017-2018	Degree	Computer & IT Engineering and Allied (NIT, IIT, IIIT)
Bharat Forge Private Limited	Automobiles	Private	2017-2018	Degree	Mechanical Engineering and Allied
Ardizen Network	Consulting	Private	2017-2018	Degree	Mechanical Engineering and Allied
Ardizen Network	Consulting	Private	2017-2018	Degree	Electronics Engineering and Allied
Bharat Forge Private Limited	Automobiles	Private	2016-2017	Degree	Mechanical Engineering and Allied
Piaggio Vehicles Private Limited Baramati	Automobiles	Private	2016-2017	Degree	Mechanical Engineering and Allied
Efficient Fire Services Hapsar Pune	Energy	Private	2016-2017	Degree	Mechanical Engineering and Allied
Extentia Information Technology Private Limited	IT	Private	2016-2017	Degree	Computer & IT Engineering and Allied (NIT, IIT, IIIT)
Metamagics Pune	IT	Private	2016-2017	Degree	Computer & IT Engineering and Allied (NIT, IIT, IIIT)
Genius Minds Pune	IT	Private	2016-2017	Degree	Computer & IT Engineering and Allied (NIT, IIT, IIIT)
Raykor	IT	Private	2016-2017	Degree	Computer & IT Engineering and Allied (NIT, IIT, IIIT)
Icognito Pune	Consulting	Private	2016-2017	Degree	Computer & IT Engineering and Allied (NIT, IIT, IIIT)
Icognito Pune	Consulting	Private	2016-2017	Degree	Electrical Engineering and Allied
Icognito Pune	Consulting	Private	2016-2017	Degree	Electronics Engineering and Allied

CMI	Manufacturing	Private	2016-2017	Degree	Electrical Engineering and Allied
CMI	Manufacturing	Private	2016-2017	Degree	Electronics Engineering and Allied
NVDIA	Engineering	Private	2016-2017	Degree	Electronics Engineering and Allied
Reliance Digital	Manufacturing	Private	2016-2017	Degree	Electronics Engineering and Allied

**10.17.5 MoUs with Industries :**

<b>Information regarding Memorandum of Understanding signed by institute.</b>					
<b>Name of Institute and DTE Code</b>	<b>Sr. No.</b>	<b>MOU Signed with Industry/Organization</b>	<b>Date of Signing MOU</b>	<b>Purpose of MOU</b>	<b>Outcome/Beneficiaries</b>
Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati, Dist-Pune <b>EN6284</b>	1	Primus Techsystemes Pvt Ltd. Pune,	05/08/2020	Faculty Development Programme ,Industrial training and Visits,	Industrial Training and Visit, Skill Development
	2	CURIOSITY AUTOMATION OPC PVt.LTD.	22/02/2021	Industrial training and Visits, Research and Development	Skill Development Training

<b>Name of Organization</b>	<b>Subject/Area of MOU</b>
Maharashtra Center of Entrepreneurship Development	Collaboration Agreement to promoting and reinforcing Entrepreneurship Development
College of Engineering, Pune (COEP)	Collaboration Agreement to promoting and reinforcing Institutional Academics and Research Cooperation.
The Indian Institute of Welding (IIW)	Promotion and advancement of welding science and technology in India.
IIT BOMBAY, Powai, Mumbai	Remote Centre in the Distance Engineering Education Programmes (CDEEP) conducted by IIT Bombay
Nashik Engineering Cluster, NASIK	Government Sector

<b>Information regarding Memorandum of Understanding signed by institute.</b>					
<b>Name of Institute and DTE Code</b>	<b>Sr. No.</b>	<b>MOU Signed with Industry/Organization</b>	<b>Date of Signing MOU</b>	<b>Purpose of MOU</b>	<b>Outcome/Beneficiaries</b>
Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati, Dist-Pune <b>EN6284</b>	1	North Carolina State University, USA	14/09/2011	To enhance educational capabilities of the institute	
	2	Michigan Technological University, Houghton, USA	22/10/2013	Faculty Students Exchange	Two Faculty admitted for Ph.D. programme at Michigan Technological University, USA

3	Zensar Technologies Limited	24/01/2017	Training and Placement activity for Undergraduate students	Comp and IT Branch has received training under CSR Activity year 2017-18,2018-19.Placement offered to 3 Students
4	College of Engineering, Shivajinagar, Pune	18/02/2017	Faculty Exchange ,R&D Work ,R&D Projects	
5	COEP'S BHAU Institute	28/08/2017	Mentoring ,R&D ,Student Engagement through Internship	
6	Science and Technology Park, Pune	28/08/2017	Proposed Atal Incubation Centre activity	
7	Krishi Vigyan Kendra Baramati	29/08/2017	Business Innovation and Incubation activity	
8	ICAR-National Institute of Abiotic Stress Management, Malegaon, Baramati	26/09/2017	Proposed Atal Incubation Centre activity	
9	Rural Industries Development Association	27/09/2017	Proposed Atal Incubation Centre activity	
10	Baramati Chamber of Commerce & Industries, Baramati	27/09/2017	Proposed Atal Incubation Centre activity	
11	Nashik Engineering Cluster, Nashik	17/11/2017	Skill Development Training	
12	Indian Institute of Welding Pune Branch	01/05/2017	Welding Science and Technology for UG and PG students	
13	MCED Pune	28/12/2018	Communication skills and Interpersonal skills ,Learn to identify problems, Learn to identify and manage resources ,Ethical behaviour	Training program for staff and Students
14	RSC IT Consulting Baramati	02/07/2019	Curriculum Design,Industrial training ang Visits,Research and Development	Software Development,Campaign Management ,Training Solutions
15	Aishwarya Allied Foods Baramati	02/06/2019	Faculty Development Programme ,Industrial training ang Visits,	Internships and Placement of Students

	16	Mukti Township Development and Construction Company Private Limited Baramati	02/06/2019	Infrastructure Development (Civil Engineering), Internship Development and Placement of Students	Industrial Training and Visit, Skill Development
	17	Seiton Technologies Private Limited Pune	02/07/2019	Automation Solution Provider, Skill Development, Research and Development Projects	Support control and automation projects, Project Management Methodology
	18	Bhosale Consultants Baramati	02/08/2019	Construction experience sharing, Cooperation, Curriculum Design, Training Methodology, Industrial Training Programm	Internships and Placement of Students, Faculty Development

- Recipients of Summer Research Fellowships**

Coordinating Institute	Faculty	Department	Year
IIT Guwahati	Miss. Yadav Mona	Mech Engg	2018
IDRBT Hyderabad	Mrs. Kanchan Bhale	IT	2016
IIT Delhi	Mr. Madan Jadhav	E&TC Engg.	2016
IIT Delhi	Mr. D.A. Zende, Mr. Sahil Shah	Comp Engg	2015
IIT Delhi	Mr. Keshav Jadhav	Mech. Engg.	2015
IIT Delhi	Mr. Mahesh G. B.	Civil Engg.	2014
IIT Delhi	Mr. Vikas Deshmukh, Mr. S.S. Jagdale	E & TC Engg.	2014
IIT Delhi	Dr. Rajveer Shastri	E & TC Engg.	2013
IIT Guwahati	Dr. Sachin Bhosle	Mech. Engg.	2013
IIT Delhi	Dr. Sachin Bhosle	Mech. Engg.	2012
IIT Delhi	Mrs. Jyoti Rangole	E & TC Engg.	2012
IISc Bangalore	Mr. Manik Chavan	Information Technology	2012

- Patents Applications**

Sr. No.	Title	Name of student	Guide Name	Department	Application No.	Status	Date
1.	Smart Unique ID Security System for Next Generation Using Iris Biometric	Ashish Kulkarni	Dr.Sudhir Lande Dr.Vinay Nagalkar	E&TC	202021004251	Filed	31/01/2020
2.	Low cost Agro Forestry Plant Security System Using Pic Microcontroller	Nilam Kalaskar Shubhangi Khusape Shoba Kuchekar Shivpriya Yadav Vaijnath Khomane	Dr.Sudhir Lande Dr.Vinay Nagalkar Mr.Balasaheb Patil	E&TC	201921046615	Filed	15/11/2019

3.	Next Generation Heating and Location identifier Jacket for Military Personal	Vaijnath Khomane Shivpriya Yadav Swanand Khaladkar Mauli Shinde Elakkiya Sundaram Mayur Shinde Payal Yadav	Dr.Sudhir Lande Dr.Vinay Nagalkar	E&TC	201921046614	Filed	15/11/2019
4.	Easy Care Smart Water Bottle For Next Generation	Vaijnath Khomane Shivpriya Yadav Swanand Khaladkar Mauli Shinde Elakkiya Sundaram Mayur Shinde Payal Yadav	Dr.Sudhir Lande Dr.Vinay Nagalkar	E&TC	201921046613	Filed	15/11/2019
5.	Electrical Appliance Monitoring and Saver Device For Institution	Poonam Jadhav. Shubham Hanamante Chaitanya Sable Vaishnavi Kanade Nirmal Kumbhar Sanket Arde	Dr.Sudhir Lande Dr.Vinay Nagalkar	E&TC	201921046619	Filed	15/11/2019
6.	Antitheft System for Electric Motor Pump	Sourabh Kalebere Pratiksha Gaikwad Anikate Hole	Dr.Sudhir Lande Dr.Vinay Nagalkar	E&TC	201921046616	Filed	15/11/2019
7.	Design of Automation Sugarcane Cutter with Bud Detection	Aishwarya Fhulari	Dr.Sudhir Lande Jyoti Rangole Dr. Vinay Nagalkar	E&TC	201921046618	Filed	15/11/2019
8.	Automated cotton Plucking Robot	Rushikesh kale Vaijnath Khomane Nivrutti Kadam Samata Survase Poonam Jadhav Vaishnavi Vidhate Shraddha Raje	Dr.Sudhir Lande Dr.Vinay Nagalkar	E&TC	201921046617	Filed	15/11/2019

9.	Smart Surface Mounting Device	-	Dr.Sudhir Lande Dr.Vinay Nagalkar	E&TC	201921046621	Filed	15/11/2019
10.	Multipurpose Egg Hatcher Machine	Paigambar Shaikh Shanno Sayyed Uzma Shaikh	Mrs. Jyoti Rangole	E&TC	201921038268	Filed	-
11.	Low Cost Underwater Glider For Scientific Data Aquisition.	Sohel Shaikh. Shubham Kumbhar. Bhupali Nagane.	Mrs. Jyoti Rangole	E&TC	201921038265	Filed	-
12.	Cotton Sowing mechanis M/Machine For Vidarbha Region	-	Dr.Sudhir Lande Dr.Vinay Nagalkar	E&TC	201721004159	Filed	06/02/2017

- IPR Training Programme**

Title of Training Program	Date conducted	Beneficiaries
<u>Importance of IPR in Research and Entrepreneurship</u>	27th & 28th Feb. 2020	Second Year Mechanical and Civil Engineering students
<u>Importance of IPR in Research and Entrepreneurship</u>	2nd & 3rd Mar. 2020	Second Year E & TC Engineering students
<u>Importance of IPR in Research and Entrepreneurship</u>	4th & 5th Mar. 2020	Second Year Electrical Engineering students

- Centers of Excellence**

Sr. No.	Name of Centre of Excellence
1	Machine Learning and Artificial Intelligence
2	Web Technology
3	PLC Scada
4	Cloud Computing
5	Enhancement of English and foreign Languages
6	Advanced Functional nanomaterial and nanotechnology
7	Advanced Manufacturing and Terotechnology
8	Shrinivas Ramanujan Centre for Enhancement of Mathematical Abilities (COEMA)
9	Plastic Waste Management
10	Sponsored Prerana Center for SC-ST Students
11	Center for Agricultural Technologies
12	Internet of Things
13	Smart Innovation Centre
14	MATLAB for Research Via Enhanced Learnings(MARVEL)
15	Biomedical Image Processing
16	Microwave and Communication system

- Entrepreneurship Development Cell Activities (year 2019-20)**

Sr. No.	Activity Details	Conducted by	Date	Venue	Audience
1	Entrepreneurship Awareness Camp	Science Technology Park, Pune	10-01-2019 To 12-01-2019	VPKBIET, Baramati	79 students of final year engg. participated

2	Entrepreneurship Awareness camp	Science Technology Park, Pune	17-01-2019 To 19 Jan 2019	VPKBIET, Baramati	100 students from final year and pre-final year engg. participated
3	A talk and mentoring clinic on Science and Technology Entrepreneurship and Funding Opportunities	Venture Center, Pune	05-02-2020	VPKBIET, Baramati	200+ students from S&T background of five VP institutes
4	Two day Mentor Development Programme	Bharatiya Yuva Shakti Trust	14-02-2020 To 15-02-2020	VPKBIET, Baramati	28 faculty Members from VPKBIET
5	Two day Mentor Development Programme	Bharatiya Yuva Shakti Trust	28-02-2020 To 29-02-2020	VPKBIET, Baramati	28 faculty Members from VPKBIET

- Achievements of students and faculty members in Innovation/Startup Competition**

**E. & TC. Engineering: Projects participated in the competition : 2019-20**

Sr. No.	Name of students	Competition Title & Details	Title of Project	Name of Guide
1	Paigambar Shaikh	Received Atal Incubation Centre At Agricultural Development Trust Baramati	Multipurpose Egg Hatching System	Jyoti Rangole
2	T.E. ( E. & Tc.) Kanchan Rajguru Shubhangi Pawar	got shortlisted among top 18 projects in IETE, Pune Centre, in IETE Project Competition IETE, Pune Centre Innovation 2019 Project Competition	Smart Energy Meter	Jyoti Rangole
3	Aishwarya Fulari	Received Atal Incubation Centre At Agricultural Development Trust Baramati	Automatic Sugarcane Bud Detection and Cutting System	Dr. Sudhir Lande, Mrs. Jyoti Rangole, Mr. Vinay Nagalkar
4	M.E. ( DS) students Aishwarya Fulari Anuj Fulari	won Second Prize at Navonmesh 2020, organized by, Atal Incubation Center, ADT, Baramati.	Automatic Sugarcane Bud Detection and Cutting System	Jyoti Rangole and Dr. Vinay J Nagalkar

5	Paigambar Shakh B.E (E&Tc) Prerna Kumbhar B.E(E&Tc) Kanchan Rajguru B.E(E&Tc) Swapnil Jadhav T.E(E&Tc) Poonam Jadhav T.E(E&TC)	shortlisted for quarter final round of AICTE, DST and Texas Instruments India Innovation Challenge Design Contest.	Multipurpose Egg Hatcher Machine	Jyoti Rangole and Dr.Vinay J Nagalkar
6	Sohel Shaikh(TE E. & Tc.) Bhupali Nagane(TE E. & Tc.) Suraj More(TE E. & Tc.)	received consolation prize IETE, Pune Centre Innovation 2019 Project Competition	Underwater Robot for Scientific Data Acquisition	Jyoti Rangole
7	T.E.(E.&Tc.)Student Team: Sohel Shaikh Shubham Kumbhar Bhupali Nagne Komal Nagawade	shortlisted among top 21 teams from all over India in eYIC 2019 competition, organized by IIT, Bombay on 5th and 6th April 2019.	Underwater Robot for Scientific Data Acquisition	Jyoti Rangole

**Mechanical Engineering Department : Project participated in the competition : 2020-21, 2019-20**

Sr. No.	Name of students	Competition Title & Details	Title of Project	Name of Guide
1	ADITYA AKKALKOTE, AWATE SHRIHARI ISHWAR, HIRE SOMNATH KHANDU, PHADTARE SURAJ SANJAY	Participation in TECHNOSPARK 2020	Water Purification Using Solar Energy With Thermal Energy Storage Device	Mrs. P. D. Kale
2	BARHATE MAYUR ATUL, PATIL AKSHAY ANANDRAO, PINGALE MOHIT PANDURANG, RODE ANOOP MOHAN	2nd Winner Position at National Level Competition at MAEERs MIT CRE&R, Barshi.	Design and analysis of trainable motion follower robotic arm	Mr. V. B. Bhagwat
3	BHOSALE AVADHOOT SANTOSH, CHILLARGE YOGESH ANIL, NALAWADE AKSHAY ANIL, SABANE GAJENDRA RAJU	Participated in state level project competition at PCCOE pune	Pothole repairing vehicle-Fixing of potholes by using plastic waste	Dr. V. B. Gawande
4	BORHADE MAYUR KHANDU, DEVKATE SAGAR APPA, KADAM SHUBHAM NARAYAN, TAYARE UMESH ANKUSHRAO	Participated in National level Agricultural Exhibition KRUSHIK 2020	Real time surveillance by drone	Dr. S. M. Bhosle

5	GARAD ABHIJEET RAJKUMAR, GUND SUYOG RAMCHANDRA, TAWARE ROHAN NAMDEO, UTPAT PRATHMESH VISHWANATH	Participated in KPIT Sparkle	Study and development of E- vehicle for moderate range transportation	Mr. A. H. Kolekar
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**IT Department: Projects participated in the competition : 2020-21, 2019-20**

Sr. No.	Name of students	Competition Title & Details	Title of Project	Name of Guide
1	1. <b>omeshwar Terkar</b> 2. <b>eha Chavan</b> 3. <b>aurabh Shinde</b>  Sushma Potdar	Avishkar 2019-20	Smart Sugarcane crop growth monitoring system using IOT and Image processing	Ms. Komal S. Jadhav

**Electrical Engineering department: Project participated in the competition: 2020-21**

Sr. No.	Name of students	Competition Title & Details	Title of Project	Name of Guide
1	Pranjali Shinde Ankita Shingade Aarati Takale	TechnoPHILIA '21, 4th National Level Paper presentation on Emerging Trends in Electronics Technology organised by MIT Academy of Engineering, Alandi, Pune, Maharashtra on 17th March 2021	Concept and implementation of autonomous fire fighting robot based on Arduino	Dr. N.B. Wagh
2	Sakshi Kulkarni Shubham Kadam Piyush Abdagire	“TechnoPHILIA '21, 4th National Level Paper presentation on Emerging Trends in Electronics Technology organised by MIT Academy of Engineering, Alandi, Pune, Maharashtra on 17th March 2021	UNDERGROUND CABLE FAULT DETECTION ROBOT	Mr.N.C.Vaidya

3	ShyamDange ShubhamLandage VaibhavNagargoje	“TechnoPHILIA '21, 4th National Level Paper presentation on Emerging Trends in Electronics Technology organised by MIT Academy of Engineering, Alandi, Pune, Maharashtra on 17th March 2021	Intelligent Autonomous Farming Robot with Plant Disease Detection using Image Processing	Mr.N.C.Vaidya
4	Solanke Dipak Rameshrao Sonawane Shubham Vasant Bhoomkar Akshata Balaji	“TechnoPHILIA '21, 4th National Level Project presentation on Emerging Trends in Electronics Technology organised by MIT Academy of Engineering, Alandi, Pune, Maharashtra on 17th March 2021	Solar based smart agriculture system in India	Mr. D. S. Yeole
5	Rohan Bhagat, Vaibhav Ithape, Akshay Tanpure	TechnoPHILIA '21, 4th National Level Project presentation on Emerging Trends in Electronics Technology organised by MIT Academy of Engineering, Alandi, Pune, Maharashtra on 17th March 2021	Battery Management System Using Thermoelectric Cooling For Electric Vehicles	Mrs.J.S.Kulkarni
6	Shete Tanuja Chandrakant Harkud Vijayalakshmi	Pioneer 2021, Paper Presentation Competition at KIT Kolhapur	Hybrid electric vehicle : Scope challenges and application	Mrs. P. N. Jaiswal
7	Mahake Ajit Sangale Suraj Ghodke Amol	TechnoPHILIA '21, 4th National Level Project presentation on Emerging Trends in Electronics Technology organised by MIT Academy of Engineering, Alandi, Pune, Maharashtra on 17th March 2021	Automatic Switching Of Power Supply & Monitoring by IoT	Mr.S.D.Shelar

**Electrical Engineering department: Project competition participation in Academic Year 2019-20**

Sr. No.	Name of students	Competition Title & Details	Title of Project	Name of Guide
1	Ashwini Kolekar AnkitaTambe SohailBagwan	Ignited Innovators of India (I2I) Project Competition organized by Bhau Institute of Innovation, Entrepreneurship and Leadership at CoEP, Pune on 22 Nov 2020	Adaptive Headlight System for Accident Prevention	Mr. P. D. Upadhye

2	Vivek Kumbhar Raksha Patil Rasika Zagde	IEEE International Conference on Emerging Smart Computing and Informatics (IEEE ESCI-2020) to be held at AISSMS IOIT, Pune on 12-14 March 2020	Smart Irrigation in Agriculture Sector by Using PLC	Mr.D.S.Yeole
3	Somesh Bidve Doijad Prashant Shyam Mrunali Chavan	IEEE International Conference on Emerging Smart Computing and Informatics (IEEE ESCI-2020) to be held at AISSMS IOIT, Pune on 12-14 March 2021	Vacuum Defense Shield	Mrs.J.S.Kulkarni
4	Poonam Kolaskar Aishwarya Thorat Umar Mir	IEEE International Conference on Emerging Smart Computing and Informatics (IEEE ESCI-2020) to be held at AISSMS IOIT, Pune on 12-14 March 2021	Smart automated wheelchair for visually impaired and physically disabled people	Mr.N.C.Vaidya
5	Swati Kupate Aashish Biradar Priyanaka Gaikwad	IEEE International Conference on Emerging Smart Computing and Informatics (IEEE ESCI-2020) to be held at AISSMS IOIT, Pune on 12-14 March 2021	Electric bike design with anti theft system using Fingerprint recognition	Mr.N.C.Vaidya

1. Participation of students in Ignited Innovators of India ( i2i ) 2019-2020 competition organized by Bhau Cell of COEP

**Eleven student project ideas were shortlisted second round of i2i 2019-2020 competition**

Sr.No	Name of Group Leader	Department	Name of Guide	Project Title
1	Akshay Anil Nalawade	Mechanical Engineering	Dr.V.B.Gawande	Pesticide Flow Repellent Helmet for Farmers
2	Kumbhar Vivek Vasant	Electrical Engineering	Prof. Deepak Yeole	Self Power Infrastructure of Gym Building
3	Kumbhar Vivek Vasant	Electrical Engineering	Prof. Deepak Yeole	Smart Irrigation: An Approach Towards Better Agricultural Development in A India
4	Pranali Kadam	Electrical Engineering	Ms. Srimanti Rokade	Generation of Sustainable Energy at Bus Stand Using Piezoelectric Material
Sr.No	Name of Group Leader	Department	Name of Guide	Project Title
5	Ashwini Narayan Kolekar	Electrical Engineering	Prof.Pavan Upadhye	Adaptive Headlight System for Accident Prevention
6	Kiran Sonkamble	Electrical Engineering	Dr.N.B.Wagh	Electrifying Roadway

7	Kiran Sonkamble	Electrical Engineering	Dr.N.B.Wagh	New Form of Energy for Electrical Vehicles
8	Shaikh Paigambar Rashid	E&TC	Mrs. Jyoti Rangole	Multipurpose Egg Hatcher Machine
9	Aditi Ashok Ingale.	Computer Engineering	Prof.A.S.Disle	Biodegradable Plastic
10	Mansuke Ajit Daskar	Civil Engineering	Dr.S.G.Morkhade	Dynamic Analysis of Steel Castellated Beams
11	Vivek Bandu Jadhav	Civil Engineering	Ms. S.R.Deshmukh	Comparative Analysis of Water Distribution network by Epanet and Watergems for Jalochiarea

**Four project ideas were shortlisted third round of i2i 2019-2020 competition**

Sr. No.	Name of students	Department	Name of Guide	Title of Project
1	Akshay Anil Nalawade	Mechanical Engineering	Dr.V.B.Gawande	Pesticide Flow Repellent Helmet For Farmers
2	Aditi Ashok Ingale.	Computer Engineering	Prof.A.S.Disle	Biodegradable Plastic
3	Shaikh Paigambar Rashid	E&TC	Mrs.Jyoti Rangole	Multipurpose Egg Hatcher Machine
4	Mansuke Ajit Daskar	Civil Engineering	Dr.S.G.Morkhade	Dynamic Analysis of Steel Castellated Beams

**E. & TC. Engineering : Student Startups Registration in Year 2019-20**

Sr. No	Name of Startup	Name of Student	Mentors
1	Aeronics Pvt. Ltd.	Aishwarya Phulari	Mr. Mahadeo Gaikwad (BYST Chapter Chairman Baramati) & Jyoti Rangole
2	Hatchlogic Electrosolutions Pvt. Ltd.	Paigambar Shaikh	
3	Innovatic Pvt. Ltd.	Mosam Bhong	

**Mechanical Engineering: Student Startups Registration in Year 2020-21**

Sr. No	Name of Startup	Name of Student	Mentors
1	Clover 3D printers and CNC Machine	Akshay Budhbal	Dr.V.B.Gawande

**E. & TC. Engineering : Product Development in Academic year (2019-20)**

Sr. No	Product	Name of Student	Department
1	Automatic sugarcane bud detection and cutting machine	Aishwarya Phulari, Anuj Fulari, Shubham Kumbhar, Amol Pawar	EnTC
2	Multipurpose egg hatcher	Paigambar Shaikh	
3	Smart sanitization systems	Mosam Bhong	

**Mechanical Engineering : Product Development year in Academic year 2020-21**

Sr. No	Product	Name of Student	Department
1	AVS Mark 1(3D Printer)	Akshay Budhbal	Mechanical

- **Funding Proposals Submitted/In Process**

Sr. No.	Scheme	Funding Agency	Year of application	Remark
1	NewGen IEDC	DST	13 July 2019	Result Awaited
2	NIDHI PRAYAS	DST	2020	Student proposals submission in process ( Mech: 2 EnTc:1)
3	NIDHI EIR	DST	2020	Student proposals submission in process (EnTc: 2)

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

(Vide AICTE letter No.: F.No. Western/1-7006963201/2020/EOA dated 15-06-2020)

**10.19 Accounted audited statement for the last three years : Available**

**10.20 Best Practices adopted, if any**

**Best practices in Civil Engineering**

**1. Online Certification Courses (NPTEL, UDEMY, COURSERA):**

**Goal:** To excel students in fundamental knowledge of the Civil Engineering subjects through online courses from reputed institutes.

**Implementation:** Students and faculties register for online courses on NPTEL, UDEMY and COURSERA. Renowned professors from IITs and Industries deliver content of course through video lectures. Online certification facility is provided at the end of successful completion of the course.

**Output:** Various areas of Civil Engineering are in depth explored by faculties and students.

**2. Research Paper Publications**

**Goal:** To encourage faculties/students to present research papers in International/National Journals/Conferences.

**Implementations:** Faculties/Students are encouraged to present their research work in reputed Journals/Conferences. Furthermore apart from presenting research papers in reputed journals/conferences, every year post graduate students present their M. E. dissertation work in Post Graduate Conference (PGCON) organized by Savitribai Phule Pune University to showcase their strengths and knowledge.

**Output:** Faculties/Students started to contribute in research.

**3. Student Mentoring**

**Goal:** To understand student's academic/personal problems and suggest possible solutions.

**Implementation:** A batch of 15 to 20 students is allocated to faculty in the department. Faculty conducts meeting of these students once in week. In meeting, students discuss their problems with the mentor and mentor use to give best possible solution for it. Furthermore, mentor also uses to keep track of attendance, university examination performance and achievements of his/her mentees and the same are communicated to their parents. If required, mentor conducts parents meeting also.

**Output:** Students get best possible ways through discussion with mentors to solve their academic/personal problems.

**4. Eklavya Aptitude Test Series**

**Goal:** To prepare students for competitive examinations.

**Implementation:** Once in month aptitude test namely Eklavya is conducted in the department. Furthermore results of the test are communicated with the students and possible improvements are suggested to them.

**Output:** Students are ready to face competitive examinations.

**5. Awards to Faculties and Students**

**Goal:** To encourage Faculties and Students to perform best in academics.

**Implementation:** Awards are given to faculties and Students in following categories.

1. Class toppers are awarded with Certificate of Appreciation.

2. Faculties with 100% result for their subjects are felicitated with mementos.

**Output:** Increase in overall academic performance of the students.

**Best practices in Mechanical Engineering –**

1. Developing innovative approaches in learning and teaching as appropriate. (Flip classroom, Video lectures, Puzzles, etc)
2. Development of skills of the students by conducting skill based workshops courses like 3D printing, Solid work software etc.
3. Arranging Expert/Invited talks from the industry expert person to deliver the lectures by fulfilling the curriculum gap within the subject area as required.
4. Mentoring a group of students, to improve academic performance of the students by identifying barriers to learning.
5. Experiments conduction through Virtual labs to provide remote-access to Laboratories in various subjects of mechanical engineering for students.
6. Motivation to Students to avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation.

### **Best practices in Electrical Engineering**

- 1) Better teaching-learning and student centric environment
- 2) More emphasis on industrial trainings, industrial visits and guest lectures
- 3) More emphasis on hardware and software based practical's and projects of industry relevance.
- 4) Students association to showcase the talent and use for overall personality development and working habits in a group

### **Best practices in Electronics and Telecommunication Engineering(E. & TC.)**

1. NPTEL Courses for students and faculty.
2. Faculty involvement to provide support for GATE preparation.
3. Teaching –Learning process implementation through Google classroom
4. Faculty and student involvement in patent preparation and filing.
5. Involvement of student association in various technical activities.
6. Faculties & students. are encouraged to appear in online certification courses like NPTEL, Udemy, EdX, Coursera.
7. Institute rewards the toppers of each class in annual functions.
8. Free and Open Source (FOSS) Spoken tutorials access is provided to departmental students.
9. Expert talk by Alumni of department on current trends in the industry.
10. Industry visits are organized for the students to make them aware of recent technology
11. Technical festivals are organized for the students to inculcate the management skill among the students.

### **Best Practices in Computer Engineering.**

#### **1) Google Classrooms:**

##### **Goal :**

To provide a uniform way of distributing/sharing notes, files, assignments between main stakeholders, teachers and students. It also aims to enhance and speed up the way of creating, sharing and assessing tests.

##### **Implementation :**

Google classroom effectively manages the student-teacher interaction via sharing of notes, assignments, tests and respective evaluation. Google classroom is created per class. All faculty invited to join the classroom for posting notes, assignments and schedule tests. It allows teachers to make announcements, ask questions and field student responses in real-time.

##### **Output:**

Communication between faculty and student has been regularized and improved.

#### **2) Online Certification Courses (NPTEL, Coursera, edX):**

##### **Goal :**

To make available teaching/learning content of high quality so that students will be more competent to get better job opportunities as well as improve their skill set.

##### **Implementation :**

Students and faculty registers for interested NPTEL/courser/edX courses. Distinguished professors from IITs, universities and Industries deliver content of course through video lectures. Online certification facility is provided at the end of successful completion of the course.

##### **Output:**

Faculty and students are explored to cutting edge domain areas. They strengthened their profile with elite and gold certificate. NPTEL courses are considered as FDP

### 3) Spoken Tutorial Courses :

#### Goal :

To increase the literacy about Free and Open Source Software among students.

#### Implementation :

Spoken tutorial courses are mapped to corresponding practical. Students listen these video lectures during lab session and leisure time. Online exam is scheduled after one month from start of course.

#### Output :

Both stakeholders have started the use of FOSS software in their daily work.

### 4) Student Mentoring

#### Goal :

To have communication between Faculty and Students. To make students comfort in daily routine.

#### Implementation :

A Batch of 15 to 20 students is allocated to the Faculty. Faculty conducts meetings of these students once a week preferably on the starting day of week. In meetings, students can discuss their problems with the mentor and mentor will try to get solution for it. Mentor will keep track of these students progress about attendance, exam performance, achievements. Same progress is communicated to their parents. If required, mentor can conduct parents meeting also.

#### Output :

Hassle free environment is created among the students and faculties.

### 5) Use of Whatsapp/Email groups for Effective communication :

#### Goal:

Instant communication with the students.

#### Implementation:

Whatsapp/Email Groups are formed class-wise to have instant communication with the students. All Google Classroom, YouTube videos link are instantly shared with the students using whatsapp. Parents are also part of the group so everyone will participate seriously in all activities communicated through it. Apart from Google Classroom, Video Link other necessary information about extracurricular is instantly communicated.

#### Output:

Speedy communication with the students to keep them busy in learning.

### 6) Moodle:

#### Goal :

To provide a uniform way of distributing/sharing resources and learning material between main stakeholders, teachers and students.

#### Implementation :

Centralised Moodle Server in the department is useful for effectively managing the student-teacher interaction via sharing of video lectures recorded by the faculty. This can be used within the intranet of College and doesn't require an internet connection.

#### Output:

Recorded Video lectures of Faculty along with Subject resources can be easily shared and accessed by faculty and students.

### Best Practices in IT Department:

- 1) Effective utilization of FOSS, NPTEL, Coursera, EdX, Udemy course by faculty and students
- 2) Final Year Students publish their project work in International Journals.
- 3) Well Formulated Rubrics are used for Systematic and Timely Evaluation of Final Year Projects.
- 4) Faculty and students participation in GATE exams.
- 5) Strong alumni- students are placed in India and abroad in various well known IT industries Microsoft, Yahoo, Oracle, HP etc. and alumni conducts the interactive sessions for the students.
- 6) Active participation of students in social events, Industrial visits and department technical and non-technical activities.
- 7) Faculties are motivated to get involved in Research work.
- 8) ERP system is utilized effectively for attendance maintenance purposes.
- 9) The department has a Timely monthly Attendance Record preparation and student communication system
- 10) Faculties are actively involved in University Examination work such as Paper setting and evaluation process.