



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

Near Jnana Bharathi Campus, Outer Ring Road, Mallathahalli, Bengaluru-560056

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP) PHASE - III

TEQIP-III REPORT [April 2017-January 2022]

NPIU

National Project Implementation Unit

MANAGED BY,

PANCHAJANYA VIDHYA PEETHA WELFARE TRUST (REGD.)

Dr. AIT Campus, Mallathahalli, Bengaluru-560056

Introduction:

TEQIP was conceived in pursuance of the National Policy on Education 1986 (Revised in 1992) with a Goal to scale-up and improve quality of technical education and enhance existing capacities of the institutions to become dynamic, demand driven, quality conscious, efficient and forward looking, responsive to rapid economic and technological developments occurring both at national and international levels. TEQIP of Government of India is being implemented as a World Bank assisted Project to improve the quality of technical education system in the country.

On successful completion of TEQIP-I & II (Subcomponent 1.1 & 1.2), National Project Implementation Unit (NPIU) has selected Dr.AIT under subcomponent 1.3. Dr. AIT is one among the **09** Institutes in Karnataka state selected for receiving the World Bank assistance under TEQIP-III by NPIU through MHRD, Government of India. The Institute is also the recipient of several grants sanctioned by AICTE, DST and VTU.

The Project, Third phase of TEQIP-III is fully integrated with the Twelveth Five-year Plan objectives for Technical Education as a key component for improving the quality of Engineering Education in existing institutions with a special consideration for low income states and Special Category States (SCS) and support to strengthen few affiliated technical universities to improve their policy, academic and management practices. The Government of India and the World Bank has signed a US\$ 201.50 million credit agreement to enhance the quality and equity of engineering education across several focus states in India on 11th Feb., 2017.

About 200 Government / Government aided engineering institutes and Affiliating Technical Universities (ATUs) including the Centrally Funded Technical Institutions (CFTIs) are selected in the project.

TEQIP-III project was initiated with focus on the following objectives:

- Improving quality and equity in engineering institutions in focus states viz. 7 Low Income States (LIS), eight states in the North-East of India, three Hill states viz. Himachal Pradesh, Jammu & Kashmir, Uttarakhand and Andaman and Nicobar Islands (a union territory (UT))
- System-level initiatives to strengthen sector governance and performance which include widening the scope of Affiliating Technical Universities (ATUs) to improve their policy, academic and management practices towards affiliated institutions, and
- Twinning Arrangements to Build Capacity and Improve Performance of institutions and ATUs participating in focus states.

Dr.AIT is extremely proud to be a participating institute in TEQIP-III. Under TEQIP-III, 700 lakhs of rupees is allotted to Dr. Ambedkar Institute of Technology. Based on the progress and achievements of TEQIP-III, our Institution was recognized as best performing Institution and an additional grant of Rs. 140.00 Lakhs was received.

TEQIP-III is mainly classified into three categories:

- **Procurement of Goods:** Equipment, Furniture, Books LRs, Software & Minor items and minor civil works
- **Academic Processes:** Improve Students Learning, Assistantships, Graduates Employability, Faculty/Staff Development and Motivation, Research and Development, MOOCs and Digital Learning, Mentoring/Twinning System, Reforms and Governance, Management Capacity Development, Services, and Industry-Institute Interaction
- **Operating Costs:** Consumables, Operation and Maintenance of Equipment's, Office Expenses, Meetings, Hiring of Vehicles, Travel Cost, and Salary

Primary goal of TEQIP III is dissemination of knowledge and competence to faculty members, researchers and students through short-courses, workshops, seminars and conferences. To achieve this goal Dr. AIT has organized several academic activities in the year 2017-2021 which includes workshops, FDP, industrial visits, e-learning courses, staff development programs etc. This report provides an overview of the activities conducted so far by Dr. AIT under TEQIP phases. As a result of conducting all these activities and interacting with participants of the events, Dr. AIT has a better understanding of specific areas of general weakness in these institutes. It has a better understanding of what is missing in the curriculum – both at undergraduate and graduate levels. Inputs from faculty and students on various models of interactions has helped us in organizing these events in more effective manner and plan for future events in a way to help them with pedagogy/management, research and overall development.

All efforts from Dr. AIT in the direction to help the twinning institute (IET, Ayodhya) improve their technical education system experienced mixed success due to several reasons which are explained in this report.

To build a strong platform for interaction, sharing of resources, intellectual discussion, continued learning and knowledge improvement, Dr. AIT had planned and conducted several academic activities under TEQIP-III for the benefit of students, faculty members and staff members which includes workshops, online courses, internship programs, collaborative research initiatives etc.

TEQIP award is no mere an achievement; Dr. AIT as a body with a progressive management as well as highly qualified faculty and efficient staff does deserve this recognition. They are thankful, enthused and encouraged to perform to the best of their abilities.

Distinguished Trustees of Panchajanya Vidya Peetha Welfare Trust (PVPWT):

PVPWT has over 24 institutions with more than 10,000 students. As one of the fastest growing organization in the State of Karnataka, it has been offering quality education in every field of academics from Kindergarten to Research programs in Science and Technology at an affordable cost. The Trust comprises of eminent Trustees with diversified background, who serve relentlessly for the overall development of the organization. The organization is very proud to have these strong visionaries as Trustees.



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Chairman, PVP WT
Former Director
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Former Member, KPSC, GoK
Former Faculty, ISEC,

TEQIP-III Team



Dr.M.Meenakshi
Principal



Dr.Mahalinga V.Mandi
TEQIP-III Coordinator



Dr.Siddaraju
Nodal Officer (Procurement)



Dr.Nandini Prasad K S
Nodal Officer (Academic and MIS)



Dr.K.N.Anuradha
Nodal Officer (EAP) and Twinning Coordinator



Dr.Ramesh S
Nodal Officer (Finance)

TEQIP Office:



Mr. Rajesh L V,
Sub Nodal Officer (Procurement)



Mr.Anand Babu
Superintendent



Mr.Harshavardhan
MIS Operator



Mr.Ranganath
Program Manager

Mr.Jiliani
Manager (Accounts)

The Board of Governors (**BOG**) was framed as per TEQIP-III regulations and meetings were conducted for every quarter regularly and the details are shown in Table-1.

Table-1: Dates of BOG meetings conducted

BOG Meeting No.	Date
1	28/09/2017
2	04/12/2017
3	09/06/2018
4	26/12/2018
5	16/03/2019
6	15/06/2019
7	26/06/2019
8	30/09/2019
9	30/12/2019
10	12/09/2020
11	30/09/2020
12	28/12/2020
13	13/03/2021
14	28/08/2021

Mentors Visits:

Dr. Devendra Deshmukh, Professor, IIT, Indore was nominated as the Mentor for our Institute and he had visited Dr. AIT on the dates indicate in Table-2.

Table-2: Dates of Mentor Visit

Mentor Visit No.	Date
1	28 th ,29 th ,30 th Nov 2018
2	13 th ,14 th ,15 th June 2019

Performance Audit:

Dr.Vikram Gadre, Professor, IIT, Bombay was nominated as Performance auditor in TEQIP-III and visited our Institute on the dates shown in Table-3

Table-3: Dates of Performance Auditor Visit

Mentor Visit No.	Dates
1	25 th ,26 th ,27 th ,28 th August 2018
2	26 th ,27 th 28 th 29 th August 2019
3 (Online)	8 th ,9 th ,10 th February 2021

Consolidated Report (Screenshot) of Performance Audit-2017-2018:

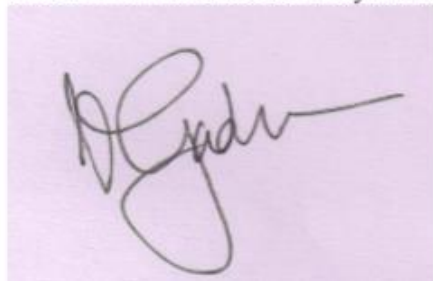
MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS	GRADE*	Weightage %	Total Score (Grade x Weightage/100)
A. Effectiveness of funds utilized for the teaching, training, learning and research equipment, library, computers, etc. by Institutions	1.50	10	0.15
B. Improvement in Teaching, Learning and Research competence of affiliated institutions.	1.33	10	0.13
C. Implementation of AICTE mandate	1.00	15	0.15
D. Increasing faculty productivity and motivation	1.20	10	0.12
E. Effectiveness of equity at Institutional level	1.50	15	0.23
F. Improved system efficiency	1.00	10	0.10
G. Twinning Activities	1.00	30	0.30
*The grade for each parameter is calculated based on the average of all sub-parameters.	Total Score		1.18

Remarks:

In Item C.1, a compressed file giving the attendance list has been provided on account of the large file size. The details are not clearly visible. However, I personally, in my capacity as Performance Auditor, went to the Induction Programme during my Audit visit, observed the large attendance, participation of first year students and addressed the group personally. I therefore awarded the grade '1' after being satisfied that the Induction Programme was being

conducted, well in line with AICTE norms. In Item D.3, I also verified the details of faculty who were deputed or encouraged to pursue a Doctoral Programme during the Focused Group Discussion. That is much more than what the uploaded document reflects. In general, most of the faculty aspire to upgrade their qualification and are in line for the same, from the outcome of my interaction with them. I have therefore deemed there to be strong evidence in this item and awarded Grade '1'. Overall, the performance of this Institution is excellent on most counts.

I PROF. V. M. GADRE verify that all the information provided is correct to best of my knowledge.



Consolidated Report (Screenshot) of Performance Audit-2018-2019:

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS	GRADE*	Weightage %	Total Score (Grade x Weightage/100)
A. Effectiveness of funds utilized for the teaching, training, learning and research equipment, library, computers, etc. by Institutions	1.00	10	0.10
B. Improvement in Teaching, Learning and Research competence of affiliated institutions.	1.40	10	0.14
C. Implementation of AICTE mandate	1.00	15	0.15
D. Increasing faculty productivity and motivation	1.00	10	0.10
E. Effectiveness of equity at Institutional level	1.14	15	0.17
F. Improved system efficiency	1.00	10	0.10
G. Twinning Activities	1.00	30	0.30
*The grade for each parameter is calculated based on the average of all sub-parameters.	Total Score		1.06

Remarks:

On the whole, this Institute has exhibited an excellent performance on almost all fronts in TEQIP-III. A few clarifications: (a) In Item A-1, Grade '1' has been awarded as the percentage expenditure is more than 80 percent even though not exactly 90 percent. This is because I have also ascertained that the remaining 20 percent of expenditure is already in pipeline from their internal documents. (b) In Item C-5, I have ascertained that their Boards of Studies meet regularly and there is adequate stakeholder participation. (c) In Item D-1, the document shows the sanctioned staff and faculty strength on the first and second pages respectively from Government records. I have personally verified from the Principal that their sanctioned faculty strength meets a ratio norm of 1 to 20-25. (d) In Items E-4, E-6, 2 of the targets have been achieved and one of them with resounding success and therefore grade '1' has been awarded. Overall, in my capacity as Performance Auditor, I congratulate the Principal, TEQIP-III Coordinator, TEQIP-III Office Faculty and Staff, the faculty, staff and student body of Dr AIT in general. Their achievements in TEQIP-III are laudable and pursued very sincerely and enthusiastically. We urge them to keep up the good work.

Consolidated Report (Screenshot) of Performance Audit-2019-2020:

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS	GRADE*	Weightage %	Total Score (Grade x Weightage/100)
A. Effectiveness of funds utilized for the teaching, training, learning and research equipment, library, computers, etc. by Institutions	1.00	10	0.10
B. Improvement in Teaching, Learning and Research competence of affiliated institutions.	1.40	10	0.14
C. Implementation of AICTE mandate	1.00	15	0.15
D. Increasing faculty productivity and motivation	1.25	10	0.13
E. Effectiveness of equity at Institutional level	1.20	15	0.18
F. Improved system efficiency	1.00	10	0.10
G. Twinning Activities	1.00	30	0.30
*The grade for each parameter is calculated based on the average of all sub-parameters.	Total Score		1.10

Remarks:

On the whole, this Institution has continued to exhibit an exemplary performance. Meetings with the faculty, the students, the Institute Functionaries, Heads of Department and the Principal revealed that the Institute was, indeed, doing very well on all counts of TEQIP-III metrics. The specific weak points are indicated in the Performance Audit: the participation of students in GATE is a bit weak. I was given to understand, that this was, on account of the excellent placement opportunities which the students had. However, this Performance Auditor did indicate to the Management and the Institute Functionaries, that the purpose of encouraging students to qualify in GATE was

not simply to reap the benefits of applying for higher studies in India but also for public sector placement, for upgrading and benchmarking the undergraduate education in the country and, in particular, in every institution. It was suggested that, in addition to the steps that the Institute was taking to train its students, mechanisms be set in place, to encourage peer learning groups from among its students, supervised by faculty. This would enhance the students' awareness about the GATE examination and these underlying objectives. To encourage the already good work that the Institute was doing, in the domain of teaching and research, this Performance Auditor also suggested steps to: (i) collaborate with TEQIP-III-KITE, IIT Bombay, in its pedagogical initiatives, to be continued under the aegis of the parent academic unit, the Parimal and Pramod Chaudhari Centre for Learning and Teaching (PPCCLT), IIT Bombay in the years to come (ii) take steps in the broader 'Atmanirbhar Bharat' Vision of the nation, with specific reference to building up academic systems in our country in the domain of teaching and research: strengthening our national journals of repute, in addition to contributing visibly to international journals. In accordance with the guidelines from NPIU, the data uploaded pertains mainly to the Year 2019-2020, wherever appropriate. Performance Auditor: Prof. Vikram M. Gadre, Elect Engg, IIT Bombay

TEQIP-III COMPONENT WISE DETAILS

Allocation of funds to Dr. AIT under TEQIP-III to various components is shown in Table-4.

Table-4: Allocation of Funds

Sub- Component 1.3 (Twinning Arrangements)					
Sl.No.	Code	Component	Code	Sub- Component	Allocation (Rs. In lakhs)
1	1.3.1	A.PROCUREMENT	1.3.1.1	Equipment	426.64
			1.3.1.2	Learning Resources	
			1.3.1.3	Furniture	
			1.3.1.4	Minor Civil Works	
				COMPONENT TOTAL (A)	426.64
2	1.3.2	B.ACADEMIC PROCESSES	1.3.2.1	Improve Students Learning	358.44
			1.3.2.2	Assistantships	
			1.3.2.3	Graduates Employability	
			1.3.2.4	Faculty/Staff Development and Motivation	
			1.3.2.5	Research and Development	
			1.3.2.6	MOOCs and Digital Learning	
			1.3.2.7	Mentoring/Twinning System	
			1.3.2.8	Reforms and Governance	
			1.3.2.9	Management Capacity Development	
			1.3.2.10	Services	
			1.3.2.11	Industry-Institute Interaction	
				COMPONENT TOTAL (B)	358.44
3	1.3.3	C.OPERATING COST	1.3.3.1	Consumables	55.92
			1.3.3.2	Operation and Maintenance of Equipment	

			1.3.3.3	Office Expenses	
			1.3.3.4	Meetings	
			1.3.3.5	Hiring of Vehicles	
			1.3.3.6	Travel Cost	
			1.3.3.7	Salary	
				COMPONENT TOTAL (C)	55.92
				GRAND TOTAL (A+B+C)	841.00

The overall component-wise expenditure of TEQIP-III project as on Jan 31, 2022 is shown in Table-5.

Table-5: Component-wise Expenditure of TEQIP-III as on Jan. 31, 2022

Sub- Component 1.3 (Twinning Arrangements)					
Sl.No.	Code	Component	Code	Sub Component	Allocation (Rs. In lakhs)
1	1.3.1	PROCUREMENT	1.3.1.1	Equipment	24,065,358.00
			1.3.1.2	Learning Resources	18,598,907.00
			1.3.1.3	Furniture	0.00
			1.3.1.4	Minor Civil Works	0.00
				COMPONENT TOTAL (A)	42,664,265.00
2	1.3.2	ACADEMIC PROCESSES	1.3.2.1	Improve Students Learning	7,628,385.00
			1.3.2.2	Research Assistantships	3,881,400.00
			1.3.2.3	Graduates Employability	1,419,242.00
			1.3.2.4	Faculty/Staff Development and Motivation	10,309,856.00
			1.3.2.5	Research and Development	1,844,041.00

			1.3.2.6	MOOCs and Digital Learning	571,370.00
			1.3.2.7	Mentoring/Twinning System	3,884,015.00
			1.3.2.8	Reforms and Governance	1,322,948.00
			1.3.2.9	Management Capacity Development	1,441,155.00
			1.3.2.10	Services	0.00
			1.3.2.11	Industry-Institute Interaction	3,541,495.00
				COMPONENT TOTAL (B)	35,843,907.00
3	1.3.3	OPERATING COST	1.3.3.1	Consumables	23,990.00
			1.3.3.2	Operation and Maintenance of Equipment	29,641.00
			1.3.3.3	Office Expenses	682,155.00
			1.3.3.4	Meetings	1,251,032.00
			1.3.3.5	Hiring of Vehicles	3,345.00
			1.3.3.6	Travel Cost	690,682.00
			1.3.3.7	Salary	2,910,637.00
				COMPONENT TOTAL (C)	5,591,482.00
GRAND TOTAL (A+B+C)					84,099,654.00

1.3.1 **PROCUREMENT OF GOODS**

Procurement (Equipment, Books, Learning Resources, Furniture's and minor civil works): The Institute has spent **Rs.426.64** Lakhs towards procurement of equipment, books for library, learning Resources and Software's. Many equipment, advanced software, research Journals and reference books have been procured to enhance the teaching learning process in the institute. The details of the department wise expenditure are shown in Table-6.

Table-6: Details of department wise procurement expenditure

Sl. No.	DEPT.	Amount in Rs.
1	Civil	3804084.00
2	Mechanical	2356259.00
3	Electrical & Electronics	2244617.00
4	Electronics And Communication	6799980.00
5	Computer Science	7320425.00
6	Electronics And Instrumentation	3203671.00
7	Industrial Engineering & Management	3977838.00
8	Information Science	0.00
9	Telecommunication	2537000.00
10	Medical Electronics	405920.00
11	Physics	0.00
12	Chemistry	0.00
13	Mathematics	842188.00

14	HSS	0.00
15	Library	4744417.00
16	Autonomous	0.00
17	Institute Level	4427866.00
	TOTAL	42664265.00

Outcome of Procurement:

1. Procurement is concerned with the management of a significant proportion of the allocated expenditure and ensuring that the best possible value for money is obtained when committing this expenditure.
2. Procurement function is concerned with obtaining the required goods and services from appropriate suppliers to enable the institution to meet its strategic objectives in an economic, efficient and effective manner.

1.3.2 ACADEMIC PROCESSES

Components included under academic process components are:

ACADEMIC COMPONENTS

1.3.2.1 Improve Students Learning

The activities include: IIT/ NIT training to students at IIT/NIT or in parent institute; Induction Training; GATE Preparation Classes; Career Counselling, Student Counselling; Psychometric/ Diagnostic Test; Remedial Classes; Peer Learning; Student Visits to IIT & R&D organizations; GATE Registration Fee ; Institutional memberships for professional societies e.g., IEEE, ACM, IETE, CSI, Automotive Engineering, ISTE, IE(I), ASCE, ASME, for student chapters; Sponsorship of 20% on academic activities in Tech Fest; Registration Fees and TA/DA for students participating in Tech Fest of IIT/NIT; GATE Orientation Programme, etc.

1.3.2.2 Research Assistantships

The activities include: Research Assistantship for full time Ph.D. students excluding QIP candidates, etc.

1.3.2.3 Graduates Employability

The activities include: Start up activity; Soft Skill training (Industry Readiness); Finishing Schools, Conducting training on NASSCOM future skills etc.

1.3.2.4 Faculty/Staff Development and motivation

The activities include: Short Term Training Programs (STTP) in house; Registration fee and TA/DA for STTP in other reputed institutes; IIT training to faculty at IIT or in parent institute; Attending Conferences/ Seminars/Workshops; Qualification Upgradation; Support Staff training; Faculty training on digital pedagogy; Faculty training on NASSCOM future skills etc.

1.3.2.5 Research and Development

The activities include: Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute; Spares and consumables for UG/ PG student research project; Seed Money for R & D for faculty research projects; Publication in peer reviewed journals having citation & impact factor and Scopus index; Fees for patent filing for faculty and students, etc.

1.3.2.6 MOOCs and digital learning

The activities include: Certification fees for online courses (MOOC's); Development of MOOC's/ Online courses, etc.

1.3.2.7 Mentoring/Twinning system

Two way faculty, staff and student exchange programs for training and academic activities; Joint R & D; Arranging seminars, academic meetings and conferences for students and faculty; Organizing Industry partnerships for joint R&D, internship and placement activities; Learning forums for improving governance practices, institutional management and reforms; Joint Advisory or consultancy services; any other activities as deemed mutually appropriate.

1.3.2.8 Reforms and Governance

The activities include: Academic Reforms (ICC, BoS, Academic Council/ Senate, BoG); Accreditation & UGC Autonomy; Student Feedback & Faculty Appraisal, Workshops / meetings / inviting experts for implementation of AICTE examination policy for measuring outcomes etc.

1.3.2.9 Management Capacity Development

The activities include: Management Capacity Building programs at IIM; NPIU workshops, etc.

1.3.2.10 Hiring Consultancy Services

It does not require activity plan (It will be required for all above activities for which the methods given in procurement shall be adopted)

1.3.2.11 Industry-Institute Interaction

The activities include: Internships; Industry expert lectures; Industry Visits, TA/DA and honorarium for industry experts assisting in delivery of curriculum etc.

1.3.2.1 Improve Student Learning

To encourage the students to participate more actively in TEQIP-III, students were encouraged to attend training at IIT/NIT or in parent institute; Induction Training for 1st year & lateral entry students in 2nd year; Expenditure on Student Excellence and Learning Programme; GATE Orientation Programme for all students; GATE Preparation Classes from 3rd year onwards; GATE Registration Fee (only for final year students); Career Counselling for Student; Employability / Psychometric/ Diagnostic Test of all students; Honorarium for Remedial Classes for failure / academically low performing students; Peer Learning- incentivizing students; Student Visits to IIT & R&D organizations; Institutional memberships for professional societies; Sponsorship of 20% on academic activities in Tech Fest; Registration Fees and TA/DA for students participating in Tech Fest of IIT/NIT; Exposure visits of social backward and girls students to reputed organizations; Providing GATE learning materials for students preparing for GATE and not participating in training; Expenditure of conduct of practical's for students in other nearby institute on advance equipment. During the last 4 years (2017 to 2021), total expenditure incurred towards this component is **Rs. 76.28 Lakhs** and department-wise expenditure is shown in Table-7.

Table-7: Details of department wise expenditure towards Improve Student Learning

Sl. No.	DEPT	Amount in Rs.
1	Civil	234110.00
2	Mechanical	244732.00
3	Electrical & Electronics	655206.00
4	Electronics And Communication	547736.50
5	Computer Science	602071.50

6	Electronics And Instrumentation	496479.00
7	Industrial Engineering & Management	148295.00
8	Information Science	339048.50
9	Telecommunication	170057.50
10	Medical Electronics	432134.00
11	Physics	0.00
12	Chemistry	0.00
13	Mathematics	0.00
14	HSS	9607.00
15	Library	0.00
16	Autonomous	0.00
17	Institute Level	3748908.00
	TOTAL	7628385.00

Overall Outcome to Improve Student Learning:

1. Students were encouraged to attend seminars/workshops/industry visits organized by the departments through which they gained knowledge in industry oriented subjects
2. New entrant students went through **induction program** that was extremely beneficial to them as freshers. Students gained knowledge about human and moral values. They learnt about the college functioning related autonomous section, test and examination rules, about department, library etc.

3. **GATE** coaching was provided for all GATE registered students to promote higher education in Indian institutes
4. Student Excellence and Learning Programme (**SELP**) by Art of Living (AoL) was organized at Dr.AIT. Students benefitted by improving student learning, boosting confidence, enhanced creativity and communication that in turn helped the students in developing their Leadership and Team Building Skills. Most importantly the aim of the program was to create harmony and a sense of belongingness to the College, amongst students, teachers and Management
5. Diagnostic Test and **AMCAT** (Aspiring Minds Computer Adaptive Test) for all students was conducted which provided a detailed analysis of the student quality and their employability in the industry
6. Students were deputed to attend training at IIT/ NIT which further helped student/s to present their paper abroad
7. Students attended Finishing Schools organized at the departments. After attending the finishing schools, the students could enhance their soft skills and gained knowledge on industry oriented topics

1.3.2.2 Research Assistantship

During the last 4 years (2017 to 2021), 09 full-time research scholars have been paid teaching assistantships of Rs. 18,000 per month. The total expenditure incurred towards this component is **Rs. 38.81 Lakhs**. The selection of the students for teaching assistantship is based on the prevailing norms. The purpose of this component is to encourage the students to acquire their PhD degree, to promote research scholars to have research interest etc. The details of department wise expenditure towards teaching assistantship is shown in Table -8.

Table-8: Details of department wise expenditure towards Research Assistantship

Sl. No.	DEPT.	Amount in Rs.
1	Civil	0.00
2	Mechanical	1710000.00
3	Electrical & Electronics	0.00
4	Electronics And Communication	468000.00
5	Computer Science	450000.00
6	Electronics And Instrumentation	0.00
7	Industrial Engineering & Management	0.00
8	Information Science	317400.00
9	Telecommunication	468000.00
10	Medical Electronics	0.00
11	Physics	0.00
12	Chemistry	0.00
13	Mathematics	468000.00
14	HSS	0.00
15	Library	0.00
16	Autonomous	0.00
17	Institute Level	0.00
	TOTAL	3881400.00

Table-9: List of full-time Research Scholars

Sl. No.	Name of the Researcher	Department	Category
1	Balaji J	Mechanical	SC
2	Sadashiva K	Mechanical	SC
3	Supreeth S	Mechanical	OBC
4	Priyanka H	CSE	SC
5	Divyashree N	ISE	ST
6	Achunala Rajesh	Mechanical	OBC
7	Lalitha S Lamani	Mathematics	SC
8	Naveen K N	ECE	OBC
9	Lakshmi M	TCE	GM

Outcome of Research Assistantship:

1. PG students were encouraged by paying a consolidated amount to pursue their internships in their fields
2. Slow learning students were benefitted out of this assistantship and completed their degree with good repute
3. Research scholars were encouraged to publish papers and the registration fee was paid by TEQIP-III

1.3.2.3 Graduate Employability

Students were also encouraged to attend Awareness drive/ workshops about the idea of 'Innovation' & 'Start-up; Continuous Drive of Competitions like Smart India Hackathon, Idea stage, prototype stage, business plan, etc every month for first to final year students; Soft Skill training (Industry Readiness); Remedial coaching for first to final year students in Communication Skills, quantitative ability, logical reasoning as observed in AMCAT employability test; Bridge Courses for enhancing employability/placement; Conducting training on NASSCOM future skills; Specialized industry based training programs by industry; Organizing motivational talks by local entrepreneurs; E-summits, conferences, seminars and other Entrepreneurship fests (organizing as well as attending); Awareness of job potential by arranging alumni talks; Formation of students clubs for domain and general arears; Operation / maintenance/ Consumables on tinkering labs; and Student training on interpersonal skills. Total expenditure incurred towards this component is **Rs. 14.19 Lakhs** and department-wise expenditure is shown in Table-10.

Table-10: Details of department wise expenditure towards Graduate Employability

Sl. No.	DEPT	Amount in Rs.
1	Civil	247535.00
2	Mechanical	0.00
3	Electrical & Electronics	131876.00
4	Electronics And Communication	292058.50
5	Computer Science	57990.50
6	Electronics And Instrumentation	197459.00
7	Industrial Engineering & Management	79299.00

8	Information Science	48525.50
9	Telecommunication	91243.50
10	Medical Electronics	7500.00
11	Physics	27177.00
12	Chemistry	0.00
13	Mathematics	0.00
14	HSS	0.00
15	Library	0.00
16	Autonomous	0.00
17	Institute Level	238578.00
	TOTAL	1419242.00

Outcome of Graduate Employability:

1. Diagnostic Test and **AMCAT** (Aspiring Minds Computer Adaptive Test) for all students was conducted which provided a detailed analysis of the student quality and their employability in the industry
2. Faculty trained at IITs conducted training on NASSCOM (**National Association of Software and Service Companies**) future skills for students on recent topics like : IoT, Data Science and Data Analytics, Robotics, Cyber Security, Cloud Computing and AI. Students got hands-on experience on these technologies. The

students could gain skills that made them fit for the current industry scenario and continuously improving their inherent capabilities.

1.3.2.4 FACULTY /STAFF DEVELOPMENT and MOTIVATION (FSD)

Faculty and Staff Development (FSD): The Institute has spent Rs.103.09 Lakhs under this component. Faculty and staff members were encouraged to attend Short Term Training Programs (STTP) both in-house and outside the institution; Registration fee and TA/DA for STTP in other reputed institutes; IIT training to faculty at IIT or in parent institute; Attending Conferences/ Seminars / Workshops; Support Staff training; Qualification upgradation of faculty and staff; Faculty training on NASSCOM future skills; Faculty training on digital pedagogy; Motivational talks for faculty and staff for improving efficiency; Faculty and staff training in industry (registration fees, TA/DA, accommodation etc.). The amount was spent towards attending and organizing faculty and staff Development Programs. Some of the department have organized joint FDPs (NITTTR & SPIU,IET Ayodhya etc.) on ICT based NBA guidelines & Pedagogical training etc. Experienced faculty from elite institutions like IISc, IITs, and NITs have delivered expert lectures in the FDPs organized by various departments of the institute. Interaction with the experts has enabled the faculty and staff to enhance their domain knowledge, technical skills etc.. The details of department wise expenditure towards faculty and Staff Development is shown in the Table ---.

Table-11: Details of department wise FSD expenditure

Sl. No.	DEPT	Amount in Rs.
1	Civil	1015793.00
2	Mechanical	989806.00

Outcome of FSD:

1. Faculty/Staff programmes were faculty/staff based Faculty and staff attended various Dr.AIT

2. All the substantially

faculty/staff development training initiatives taken up under TEQIP-III

3. The significant gain has been achieved in enhancing the knowledge updation of the faculty/staff and hence helped in transferring the knowledge to the students

3	Electrical & Electronics	479834.00
4	Electronics And Communication	1466104.00
5	Computer Science	932511.00
6	Electronics And Instrumentation	1171278.00
7	Industrial Engineering & Management	760941.00
8	Information Science	475636.00
9	Telecommunication	258111.00
10	Medical Electronics	233882.00
11	Physics	307955.00
12	Chemistry	51431.00
13	Mathematics	57322.00
14	HSS	25120.00
15	Library	126709.00
16	Autonomous	163661.00
17	Institute Level	1793762.00
	TOTAL	10309856.00

Development training conducted regularly by on their training need. members have also FDP/SDPs etc outside departments has gained as a result of the

4. Large number of faculty members has initiated steps to upgrade their qualification after gaining the knowledge/interest in the related field
5. The faculty members have participated/presented papers in National/International conferences/ International journals

1.3.2.5 RESEARCH & DEVELOPMENT ACTIVITIES

Research & Development: The Institute has spent Rs.18.44 Lakhs under this component. Under this head, students were encouraged to attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute; Spares and consumables for UG/ PG student research projects; Seed Money for R & D for faculty research projects; Providing seed money to students for their projects. (Incentives through prizes, appreciation etc.); Publication in peer reviewed journals having citation & impact factor and Scopus index; Fees and facilitation charges for patent filing for faculty and students; Workshops on writing collaborative research proposals; In-house product development by students; Expenses for using infrastructure facilities (rent) in other organizations; Expense on projects undertaken by faculty/students; Additional funding for soft activities in collaborative research scheme. The amount was spent towards Publications of research papers in peer reviewed journals, filing of Patents, attended R&D oriented symposia etc. All most all the departments have organized many technical talks and expert lectures on research related topics. The interaction with the experts has enabled the faculty, research scholars and students to get an insight into the latest trends in their respective domains. The details of department wise expenditure towards Research and Development is shown in Table---

Table12:- Details of department wise R&D expenditure

Sl. No.	DEPT.	Amount in Rs.
1	Civil	0.00
2	Mechanical	7500.00
3	Electrical & Electronics	934107.00
4	Electronics And Communication	306720.00
5	Computer Science	177466.00
6	Electronics And Instrumentation	39800.00
7	Industrial Engineering & Management	0.00
8	Information Science	0.00
9	Telecommunication	102405.00
10	Medical Electronics	152546.00
11	Physics	0.00
12	Chemistry	0.00
13	Mathematics	9643.00
14	HSS	0.00
15	Library	0.00
16	Autonomous	0.00
17	Institute Level	113854.00

	TOTAL	1844041.00
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Outcome of R&D:

1. Faculty and students have published papers regularly in International/National Journals/Conferences.
2. Significant gain has been achieved in enhancing the knowledge updation by attending International/National Conferences and hence helped in transferring the knowledge to the students.
3. Large number of faculty members has initiated steps to upgrade their qualification after gaining the knowledge/interest in the related field.
4. Faculty have filed patents (National & International).

1.3.2.6 MOOCs and DIGITAL LEARNING

Students/Faculty members were encouraged to apply for certification fees for online courses (MOOC's). To support this activity, Dr. AIT has spent Rs. 5.71 Lakhs for faculty and students. Department-wise expenditure is shown in Table-21.

Table-21: Department-wise expenditure on MOOCs & Digital Learning

Sl. No.	DEPT	Amount in Rs.
1	Civil	1600.00
2	Mechanical	26400.00
3	Electrical & Electronics	19500.00
4	Electronics And Communication	19500.00
5	Computer Science	39200.00
6	Electronics And Instrumentation	6200.00
7	Industrial Engineering & Management	11200.00
8	Information Science	18950.00
9	Telecommunication	8700.00
10	Medical Electronics	1000.00
11	Physics	3500.00
12	Chemistry	1000.00
13	Mathematics	0.00

14	HSS	0.00
15	Library	0.00
16	Autonomous	0.00
17	Institute Level	414620.00
	TOTAL	571370.00

Outcome of MOOCS and Digital Learning:

1. Faculty and students were able to upgrade their knowledge by registering for NPTEL courses
2. Registration fees was reimbursed to faculty and students for NPTEL courses
3. Many faculty and students of Dr.AIT have been identified as NPTEL STAR ACHIEVERS and TOPPERS

1.3.2.7 MENTORING / TWINNING SYSTEM

To improve the quality of education in focused states, mentoring & twinning arrangement is made as important component in TEQIP-III. In view of this NPIU has made mandatory to TEQIP 1.3 Institutions to mentor TEQIP 1.1 Institutions (Mentee) which are new to this project. We have established a twinning/mentoring arrangements with Institute of Engineering & Technology (IET), Dr. RML Avadh University, Ayodhya to build capacity and improved performance. As a mentor we provided professional support and advice on a regular basis, or as needed by the institution, on progress or difficulties in meeting the goals and targets set out in the Institutional Development Proposals and institution strategic plan. Under twinning arrangements, Dr. Ambedkar Institute of Technology has a cordial relationship with the Mentee Institution IET, Ayodhya since the beginning of the TEQIP-III project.

To support all the activities of Mentee Institute, Dr. AIT has succeeded in two way faculty, staff and student exchange programs for training and academic activities; Joint R & D; Arranging seminars, academic meetings and conferences for students and faculty; Organized Industry partnerships for joint R&D, internship and placement activities; Learning forums for improving governance practices, institutional management and reforms; Joint Advisory or consultancy services; any other activities as deemed mutually appropriate; Joint placement drives as per the NPIU guidelines.

To support this mentoring & twinning system with IET, Ayodhya, Dr. AIT has spent Rs. 38.84 Lakhs on various above listed activities and department-wise expenditure is shown in Table-22.

Table-22: Department-wise expenditure on Mentoring & Twinning

Sl. No.	DEPT.	Amount in Rs.
1	Civil	75212.00
2	Mechanical	179482.00
3	Electrical & Electronics	149647.00
4	Electronics And Communication	537048.00
5	Computer Science	235674.00
6	Electronics And Instrumentation	24819.00
7	Industrial Engineering & Management	56823.00
8	Information Science	130542.00
9	Telecommunication	0.00
10	Medical Electronics	0.00

11	Physics	111855.00
12	Chemistry	1397.00
13	Mathematics	61150.00
14	HSS	0.00
15	Library	0.00
16	Autonomous	240027.00
17	Institute Level	2080339.00
	TOTAL	3884015.00

The twinning partnership between Dr. Ambedkar Institute of Technology, Bengaluru and IET, Ayodhya is undoubtedly successful because both the institution mutually benefitted from each other. Both Institutes interact with each other on many different levels. Some examples of this interaction are:

- 1) Both Institutes participated in a formal or informal network or association
- 2) Faculty from mentor institute shared or discussed with faculty of Mentee at workshops, conferences, BoS, BOG, etc.
- 3) Mentor Institute shared knowledge or skills with the Mentee Institute
- 4) Exchanges of faculty and students improved the knowledge or skills of mentee Institute
- 5) Dr. AIT helped the Mentee Institute for implementation of curricular reforms, Exercise academic, administrative, financial and managerial autonomies and accountabilities, improve student performance and evaluation, obtaining accreditation of eligible undergraduate and postgraduate programs.

Benefits of Twinning:

The potential benefits of twinning between Dr. AIT (Mentor Institute) and IET, Ayodhya (Mentee Institute) include the following:

- a. Capacity building:** Twinning helped to strengthen the mentee institute involved through sharing or transfer of skills and knowledge. This – in turn – helped the mentee Institute strategy development and innovation.
- b. Identification of best practices:** Twinning and partnerships provide opportunities to identify ideas, approaches, techniques and methods that seem to have worked well for colleagues in partner Institutes.
- c. Added value, increased quality and effectiveness of activities of Mentee Institute:** The twinning and partnerships involve collaborating on a specific activity, (research) and it resulted in added value, more quality and effectiveness of Mentee Institute.
- d. Broadening of horizons:** Twinning and partnerships helped the faculty, staff and students of IET, Ayodhya to broaden their views and be more outward looking, to break down barriers, to understand other cultures and to learn about how education and training is developed and implemented in other Institute.
- e. Relationship building:** Twinning helped in building stronger relationships between the two Institutes. These relationships are one of the most important preconditions for lasting contacts and collaboration (sustainable contacts) and they can be drawn upon when either of the Institutes have a need which their partner can assist with or when opportunities arise for working together for instance in projects.

Twinning

Under twinning arrangements, Dr. Ambedkar Institute of Technology achieved has outstanding achievements with the mentee institution IET, Ayodhya since the beginning of the TEQIP-III project. The following activities were conducted under twinning arrangements:

1. Dr.AIT has been mentoring the mentee institution in the preparation of the action plan. Also mentoring the faculty members of IET, Ayodhya about the Outcome Based Education (OBE) and in this connection two workshops on OBE were organized from 07th to 11th Feb 2018 and 02nd & 04th Aug 2019.
2. The faculty members from Dr.AIT are deputed to mentee institution to teach some of the subjects of all departments (UG/PG students) on various dates.

3. Various Workshops/Seminars/FDP were conducted in collaboration with IET Ayodhya at Our institution.
4. One National Conference was jointly organized in collaboration with IET Ayodhya at Our institution on 07th & 08th June 2019.
5. One National Conference was jointly organized in collaboration with Dr. AIT at IET Ayodhya on 27th & 28th July 2019.
6. Under student exchange program, students from IET were invited to participate in workshops, industrial visits and national level techno exhibition held at Dr.AIT on various dates.
7. Faculty members from IET Ayodhya and Dr. AIT have attended workshop on Collaborative Research held at Mysore on 18th & 19th Aug 2019 and some of the faculty members from both the institution jointly pursuing collaborative research work
8. The senior faculty members from both the institution are serving as members of the Board of Governors (BoG) and Board of Studies (BoS).
9. Few faculty members have jointly published International Journal papers.

Sl. No.	Activities	Achievements			
		2017-18	2018-19	2019-20	2020-21
1	Mentoring/Twinning system				---
2	Two way faculty, staff and student exchange programs for training and academic activities	04	02		---
3	Joint R & D; Arranging seminars, academic meetings and conferences for students and faculty	--	04		----
4	Organising Industry partnerships for joint R&D, internship and placement activities	--	01	01	----

5	Learning forums for improving governance practices, institutional management and reforms	---	12		01
6	Joint Advisory or consultancy services; any other activities as deemed mutually appropriate	---	---		----
7	Joint placement drives	---	----		---
8	Institution's Score (based on Performance Auditor's report)				

Activities and Visits conducted between IET, Ayodhya (Mentee Institute) and Dr. AIT (Mentor Institute)

Sl. No.	Activity	Date
1	One week FDP on "Remote Learning and MOOCs and SCILAB at mentor institute	27 th to 31 st August 2018
2	3 rd Year students of IT for workshop on "Android Application Development"	10 th to 15 th October 2018
3	3 rd Year students of ECE for workshop on "Embedded System Design"	10 th to 15 th October 2018
4	One week FDP on "Remote Learning and MOOCs and SCILAB at mentor institute	28 th Sept to 03 rd Oct 2018
5	BoG at mentor Institute	28 th December 2018
6	Faculty members of CSE, IT, ME depts. and NBA coordinator visited IET,Ayodhya	17 th to 19 th March 2019
7	National level Technical Exhibition at Dr.AIT: Students of IET, Ayodhya Won first place (Rs.1,00,000/-)	13 th to 14 th April 2019
8	TEQIP Coordinator IET, Ayodhya visited Techfest at Dr.AIT	14 th April 2019

9	IET, Director – Principal. Dr. AIT - signing of MoU on R & D	21 st April 2019
10	TEQIP officials visit of Dr.AIT visited IET,Ayodhya	21 st to 25 th April 2019
11	Induction program for Junior Faculty members	28 th May to 01 st June 2019
12	National Conference at Dr. AIT – Jointly organized with IET	7 th to 8 th June 2019
13	Symposium on Collaborative Research at Mysore	19 th to 20 th Aug 2019
Sl. No.	Other Activities	Date
1	BoS at Mentee Institute	28 th Oct' to 02 nd Nov' 2018
2	BoG at Mentee Institute	28 th Nov' 2018
3	Senior faculty members from mentor institute to teach mentee Institute students	25 th to 27 th March 2018
4	Senior faculty members from mentor institute to teach mentee Institute students	23 rd to 27 th September 2018
5	TEQIP officials visit to mentee Institute	19 th to 23 rd January 2019
6	BoG at mentee Institute	04 th Feb' 2019
7	BoG at mentee Institute	17 th April 2019
8	Visit by COE and DCOE related to digital Evaluation	01 st to 05 th May 2019
9	Visit by TEQIP officials to Mentee Institute	1 st to 5 th May 2019
		1 st to 3 rd June 2019
10	BoS at Mentee Institute	7 th Sept' 2019

11	National Conference at IET – Jointly organized by IET, Ayodhya and Dr. AIT	27th & 28th July 2019
12	OBE workshop at IET, Ayodhya	02nd & 03rd Aug. 2019
13	Visit of Board of Governors of Dr. AIT to IET, Ayodhya	14th Sep. to 18th Sep. 2019
14	Visit of Vice-Chancellor and other officials to Dr. AIT	March 2020

The success stories of some of the achievements under twining arrangements along with the photos and details are as follows.

Visit to Mentee Institution by Faculty of Dr. AIT from 07th to 11th Feb' 2018



Teaching mentee institution students by faculty of Dr. AIT from 07th to 11th Feb 2018



IET, Ayodhya TEQIP-III officials visit to Dr. AIT in 2018



BOG Members of Dr. AIT visit to IET, Ayodhya from 17th to 18th Sept' 2019



The twinning relationship between Dr. AIT and IET is successful because it was flexible, collaborative and multiplied opportunities for problem solving by helping both Institutes disseminate best practices and replicate successes.

Twinning Provides a Framework for Sustainable Change.

Major outcomes of TEQIP-III:

The major outcomes of TEQIP-III project are:

- (i) Better academic standards, through accreditation, training faculty in better teaching methods, improved research outputs in institution
- (ii) Better administration of the institutions with improved financial/academic autonomy
- (iii) Better systems for assessment of Student Learning, higher transition rates
- (iv) Transparent and expeditious release of funds to institutes by way of Direct Funds Transfer (DFT) System.

ACADEMIC PROCESS COMPONENTS:

Improvement in Teaching, Learning and Research competence

ACADEMIC COMPONENTS

1.3.2.1 Improve Students Learning

The activities include: IIT/ NIT training to students at IIT/NIT or in parent institute; Induction Training; GATE Preparation Classes; Career Counselling, Student Counselling; Psychometric/ Diagnostic Test; Remedial Classes; Peer Learning; Student Visits to IIT & R&D organizations; GATE Registration Fee (only for final year students); Institutional memberships for professional societies e.g., IEEE, ACM, IETE, CSI, Automotive Engineering, ISTE, IE(I), ASCE, ASME, for student chapters; Sponsorship of 20% on academic activities in Tech Fest; Registration Fees and TA/DA for students participating in Tech Fest of IIT/NIT; GATE Orientation Programme, etc.

1.3.2.2 Research Assistantships

The activities include: Research Assistantship for full time Ph.D. students excluding QIP candidates, etc.

1.3.2.3 Graduates Employability

The activities include: Start up activity; Soft Skill training (Industry Readiness); Finishing Schools, Conducting training on NASSCOM future skills etc.

1.3.2.4 Faculty/Staff Development and motivation

The activities include: Short Term Training Programmes (STTP) in house; Registration fee and TA/DA for STTP in other reputed institutes; IIT training to faculty at IIT or in parent institute; Attending Conferences/ Seminars/Workshops; Qualification Upgradation; Support Staff training; Faculty training on digital pedagogy; Faculty training on NASSCOM future skills etc.

1.3.2.5 Research and development

The activities include: Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute; Spares and consumables for UG/

PG student research project; Seed Money for R & D for faculty research projects; Publication in peer reviewed journals having citation & impact factor and Scopus index; Fees for patent filing for faculty and students, etc.

1.3.2.6 MOOCs and digital learning

The activities include: Certification fees for online courses (MOOC's); Development of MOOC's/ Online courses, etc.

1.3.2.7 Mentoring/Twinning system

Two way faculty, staff and student exchange programs for training and academic activities; Joint R & D; Arranging seminars, academic meetings and conferences for students and faculty; Organizing Industry partnerships for joint R&D, internship and placement activities; Learning forums for improving governance practices, institutional management and reforms; Joint Advisory or consultancy services; any other activities as deemed mutually appropriate.

1.3.2.8 Reforms, governance

The activities include: Academic Reforms (ICC, BoS, Academic Council/ Senate, BoG); Accreditation & UGC Autonomy; Student Feedback & Faculty Appraisal, Workshops / meetings / inviting experts for implementation of AICTE examination policy for measuring outcomes etc.

1.3.2.9 Management Capacity Development

The activities include: Management Capacity Building programmes at IIM; NPIU workshops, etc.

1.3.2.10 Hiring Consultancy Services

It does not require activity plan (It will be required for all above activities for which the methods given in procurement shall be adopted)

1.3.2.11 Industry-Institute Interaction

The activities include: Internships; Industry expert lectures; Industry Visits, TA/DA and honorarium for industry experts assisting in delivery of curriculum etc.

DEPARTMENT WISE REPORT OF ACADEMIC PROCESS

Department of Electronics & Telecommunication Engineering (ETE)

April 2017-June 2018

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Seminar	SC:3 ST:1 OBC:21 GM:30 MALE:25 FEMALE:37	Faculty members and UG student	One day seminar program on “Recent trends in Telecommunication Switching System-A Practical Perspective ” for third year UG Students, was organized by the Department of Telecommunication Engineering, in association with NPIU, Bangalore, on 28th March 2018.	After attending the program the faculty and students have a thorough understanding of :- <ul style="list-style-type: none">• Introduction to various switching techniques.• Recent techniques in the field of switching systems.• Switching systems for LAN,WAN and Optical networks

Research Assistantships

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Research Assistantship for full time Ph.D scholars	GM:01	Research Scholar	Lakshmi M ,Full time Research Scholar under the guidance of Dr. Prashanth C R, Professor, Dept. of ETE at Research Centre, Dept of ETE is provided research assistantship.	Comprehensive Viva (CV) completed

Graduate Employability

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Awareness drive/workshops about the idea of 'Innovation' & 'Start-up	SC:11 ST:1 OBC:36 GM:25 MALE:31 FEMALE: 42	Students-UG	Two days finishing school programme on “ Advances in Telecommunication and Skill Development for Career building ” for final year UG & PG Students, was organized by Department of Telecommunication Engineering, in association with EdGate Technologies, Bangalore, on 5th and 6th March 2018.	After attending the program the participants have a thorough understanding of basic architecture of LaunchPad TM4C123GH6PM using Energia software, details of microcontroller with ARM Cortex M4F processor and programming of CC3100 wifi module with the LaunchPad.

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Registration fee and TA/DA for STTP in other reputed institutes	GM:01	Faculty-PG	Attended FDP titled “Induction programme for New Students” at College of Engineering, Pune From 27.11.2017 to 02.12.2017	Conducted Induction program for first year students
Attending Conferences / Seminars / Workshops	SC:03	Faculty-UG & PG	Attended 1 week FDP titled “Emerging trends in Project Management” by Dept. of IEM, Dr. AIT from 09.04.2018 to 13.04.2018	Got an awareness about A Closer Connection Between Projects and Strategy. Traditionally, project management is an organizational tool used to work toward and achieve discrete goals.
Support Staff training	SC:01	Technical Staff	SDP on Adobe photoshop and applications from 07.06.2018 to 08.06.2018 by Department of ISE, Dr.AIT	Got an awareness about different Photoshop tools

Research and Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Fees and facilitation charges for patent filing	GM:01	Faculty-UG	Patent Title: Multiband Micro strip EM structure Notch for the	Patent Filed, Yet to awarded

for faculty and students	SC:01		Filters and Amplifiers	
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1.3.2.9 Management Capacity Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Management Capacity Building programmes	1	PG Faculty	Attended Advanced Pedagogy and Management Capacity Building from 21st to 25th June 2018 at Gangtok, Sikkim	<p>After attending the program faculty is able to:</p> <ul style="list-style-type: none"> • Explain course outcome • Write course outcome accurately • Deliver lecture on writing COs, Setting Target to CO attainment and revising • Deliver lecture on mapping POs and COs target setting. • Explain NBA and criteria • Exhibit Administrative skills

Industry-Institute Interaction

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
TA/DA of students and faculty for Industry Visits	40	UG and PG Students and Faculty	Industrial Visit to ISRO, Hassan On 28.12.2017	Awareness given about the past, present & future satellite programs of ISRO
	42	5th Sem Students & Faculty	Industrial visit to Keltron & Harrison Malayalam Tea Estate, Kerala from 13.11.2017 to 15.11.2017	Awareness given about the manufacturing products in frontline segments such as Aerospace Electronics, Security & Surveillance Systems, Intelligent Traffic Management Systems, Strategic Electronics, IT Solutions, Process Control & Instrumentation, Power Electronics and Electronic Components
	44	7th Sem Students and Faculty	Industrial visit to Institute of Satellite Telecom private limited, Pune from 28.03.2018 to 30.03.2018	Awareness given about the Satellite Manufacturing.
	8	M.Tech Students & Faculty	Industrial visit to RTTC, Mysore on 21.05.2018	Awareness given about the pioneer Telecom Training Centre's in India

			serving for the training needs on different fields like Telecommunication Finance Management, Computers, GSM, 3G.
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July 2018 - June 2019

Improve Students Learning				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Training of faculty mentors by induction coordinators already trained (Own faculty/Hired experts)	SC:02	Faculty-UG	Attended Induction program for faculty organized by TEQIP-III, Dr. AIT, from 30.07.2018 to 4.08.2018.	
	SC:01	Faculty-UG	Attended Induction program for Engineering faculty organized by TEQIP-III, Dr. AIT and IET, Ayodhya from	

			28.05.2019 to 01.06.2019	
	SC:02	Faculty-UG	Attended Orientation Program on “Problem solving skills through Art of Programming” by TEQIP-III, Dr. AIT on 13.08.1018	
GATE Registration Fees	SC:03 ST:01 OBC:25 GM:03 MALE:14 FEMALE: 18	Students-UG	Awareness were given about the GATE Examination. Students have registered in the and attended GATE 2020 examination in ECE discipline	Examination Attended and got different all India ranks
Career Counselling for Students	SC:8 ST:2 OBC:40 GM:10 MALE:23 FEMALE:37	Final year UG students	Department of Telecommunication Engg., Dr.AIT had organized a TEQIP-III sponsored one day workshop titled “Career Route Map” on 06.02.2019. Participants were students of 4 th Semester UG	The workshop provides the participants information about the various possible career paths they can choose after graduation and necessary preparations required. Resource person gave details of jobs available in various domains like Networking, Embedded Software, Telecom OSS, Telecom Equipment Manufacturers etc. and provided an insight about opportunities available in Government organizations.
	SC:8 ST:1 OBC:07	UG students	One day finishing school programme on “ Career Opportunities and future ”	After attending the program the participants have a

	GM:45 MALE:26 FEMALE:35		scope in Telecommunication Engineering ” for final year UG & PG Students, was organized by Department of Telecommunication Engineering, in association with Embiot Technologies, Bangalore, on 23 rd & 24 th April 2019.	thorough understanding of basics and Hands-on applications of Machine learning. Students could enhance their soft skill, communication skill and gained knowledge on start-ups and higher studies opportunities required for their career building.
Any other				
1	SC:7 ST:1 OBC:37 GM:11 MALE:25 FEMALE:31	UG Students (5th and 7th Semester)	The department of Telecommunication Engineering has organized One day Seminar on “ Higher Education Abroad/ International Education Exposure ” for 5 th and 7 th Semester TCE students where Manjunath. S , guided the students regarding Higher Studies in abroad on September 25th, 2018	<ul style="list-style-type: none"> • Geared towards academic and professional success • Real time, latest and genuine information • Hazel free services with 100% success rate International Education Exposure
2	SC:6 ST:2 OBC:45 GM:16 MALE:19 FEMALE:50	UG Students	Two days workshop on “ LabVIEW and Remote Engineering Applications ” for second year UG Students, was organized by the Department of Telecommunication Engineering, in association with Cymbeline Innovations Pvt. Ltd, Bangalore, on 30th & 31st October 2018.	After attending the program the students have a thorough understanding of :- <ul style="list-style-type: none"> • Introduction to various applications of LabVIEW. • Recent techniques in the field of Remote engineering

Research Assistantships

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Research Assistantship for full time Ph.D scholars	GM:01	Research Scholar	Lakshmi M (Full time Research Scholar) under the guidance of Dr. Prashanth C R, Professor, Dept. of ETE at Research Centre, Dept of ETE.	Paper title “Performance Analysis of Energy Efficient Cluster Based Heterogeneous Wireless Sensor Network against Malicious Attack” published in International Conference on Electrical, Electronics, Communication, Computer, and Optimization Techniques (ICEECOT), 978-1-5386-5131-5, December 2018, DOI- 10.1109/ICEECOT437.2018.9001655

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Short Term Training Programmes (STTP) in house	SC:30 ST:03 OBC:8 GM:30 MALE:27 FEMALE:44	Faculty-UG & PG	Five days’ workshop on “ Machine Learning & its Applications : Hands on Approach ” for Faculty members / Research Scholars was organized by	After attending the program the participants will have a thorough understanding of features and targets in

			<p>Department of Telecommunication Engineering, in association with DataLore Labs Pvt. Ltd., Bangalore during 23rd to 27th July 2018. It was inaugurated on 23rd July 2018 in the presence of Dean-Academic, Dr.AIT and Mr.Naveen G.V. , Chief Technical Consultant, DataLore Labs Pvt. Ltd</p>	<ul style="list-style-type: none"> • machine learning, types of regression models, gradient descent algorithm, Bayesian learning, Naïve Bayes algorithm, Neural network architecture, • Feed forward and back propagation algorithms, various clustering algorithms like K-means clustering, Hierarchal clustering. • Further, participants have been exposed to applications of machine-learning, case-studies and their implementation using python.
Registration fee and TA/DA for STTP in other reputed institutes	SC:01	Faculty-UG	Attended FDP titled “Next Generation Wireless Networks” at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh from 16th July to 21st July 2018.	Shared Domain Knowledge with final year students
	GM:01	Faculty-UG	Attended FDP titled “The	Conducted an 15 days

			internet of Things (IOT) for Digital World” at Engineering College of India, Hyderabad from 13/02/2019 to 5/02/2019.	FDP on IOT at Dr. AIT, Bangalore
Attending Conferences/ Seminars / Workshops	GM:02	Faculty-UG & PG	Presented paper titled “Real Time Web Enabled Smart Energy Monitoring System Using Low Cost IoT Devices” at 16th International Conference on International Association of Online Engineering at BMS College Bangalore from 3rd to 06th Feb 2019	Paper is published in conference Proceedings
Support Staff training	SC:01	Technical Staff	Attended FDP titled “Next Generation Wireless Networks” at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh from 16th July to 21st July 2018.	Shared Domain Knowledge with final year students.
	SC:01	Technical Staff	Attended SDP on Developing Fluency in Handling Popular Academic Software Tools by Department of Medical Electronics, Dr.AIT From 17.09.2018 to 29.09.2018.	Gain an awareness in many Academic software tools.
9. Faculty training on digital pedagogy	SC:02	Faculty-UG	Attended 3 Days workshop titled “Innovative pedagogy for effective teaching” at ISE Department, Dr. AIT, Bangalore from 16.01.2019 to 18.01.2019	Applied Innovative teaching in Online classes.

Research and Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
1. Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute	GM:01	Ph. D Student	Presented a paper titled "Throughput Improvement in Energy Efficient Heterogeneous Wireless Sensor Network" in International Conference on Data Science, Machine Learning & Applications(ICDSMLA) at GSSS Inst of Tech, Mysore	01 paper published in International Conference Proceedings

Management Capacity Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Management Capacity Building programmes	GM:01	UG Faculty	Attended Professional Development Trainings (PDTs) from 26th to 30th March 2019 Conducted by IIM Raipur	After attending the program faculty can do Better Administration work. Can able to give talk on "Creative Practices" to first year students in Induction Program.

Industry-Institute Interaction

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
TA/DA of students and faculty for Industry Visits	44	8 th Sem Students	Industrial visit to Shreyas Paper Mill and Supa Hydroelectric power plant on 15/02/2019 and 16/02/2019	Awareness about different control circuits used in paper mill industry and power plant
	35	6 th Sem Students	Industrial visit to RTTC, Mysore on 25 th March 2019	Awareness given about the pioneer Telecom Training Centre's in India serving for the training needs on different fields like Telecommunication, Finance Management, Computers, GSM, 3G.

July 2019 - June 2020

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
GATE Registration Fees	SC:05 ST:0 OBC:0 GM:12 MALE:04 FEMALE:13	Students-UG	Awareness were given about the GATE Examination. Students have registered in the and attended GATE 2020 examination in ECE discipline	Examination Attended and got different all India ranks
Remedial Classes	SC:07 ST:03 OBC:24 GM:25 MALE:21 FEMALE:38	Students-UG	Handled remedial class for 8 th semester subject Multimedia Communication	100% result obtained for the subject.

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Registration fee and TA/DA for STTP in other reputed institutes like IITs	OBC:01	Faculty-UG	Attended FDP titled “Cyber Security” at IIT Roorkee from Feb 10th to 21st, 2020	Taught 16hrs of related theory on Cyber Security for pre final & final year students(67 students) of Dr. AIT from 22.07.2020 to 7.09.2020.
Support Staff training	SC:01	Technical Staff	Attended SDP Training On Software and Equipment for Lab Instructors from 28.02.2020 to 29.01.2020 by	Gain an awareness in many Academic software tools and equipment’s.

Department of Electronics and
Communication Engineering,
AMC Engineering College

MOOCs and Digital Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Certification fees for online courses (MOOC's)	GM:04 SC:02	Faculty-UG, Faculty-PG & Students-UG	Attended Online class conducted by National Program Technical Enhanced Learning (NPTEL) in various specialization.	Certificate received

July 2020 - Aug 2021

Research Assistantships

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Research Assistantship for full time Ph.D scholars	GM:01	Research Scholar	<p>Lakshmi M</p> <p>(Full time Research Scholar) under the guidance of Dr. Prashanth C R, Professor, Dept. of ETE at Research Centre, Dept of ETE.</p>	<p>Presented a paper titled “Performance Analysis of Heterogeneous Wireless Sensor Network using Efficient Clustering” in International E-Conference On “Recent Trends & Development in Information and Communication Engineering, (ICRTDIC-2020), pp. 14-21, ISBN: 9788192710471, October 2020</p>



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

Outer ring road, Mallathahalli, Bengaluru 560056

Department of Electronics & Telecommunication Engineering

Department Activities under TEQIP-III (From April 2017 till date:)

1. Events organized by the department:

Sl. No.	Title of program	Date of program conduction (From and To date)	Beneficiaries:	Number of beneficiaries	Program is: Pedagogy/ Subject Domain / R&D/ Industry Training/ Management Development/ Others	Outcomes
1	Advances in Telecommunication and Skill Development for Career building	5 th and 6 th March 2018.	UG students	73	Others: Career Building	After attending the program the participants have a thorough understanding of basic architecture of Launch Pad TM4C123GH6PM using Energia software, details of microcontroller with ARM Cortex M4F processor and programming of CC3100 wifi module with the LaunchPad.
2	Recent Trends in Telecommunication Switching Systems	28.03.2018	UG students/PG students/Faculty	62	Subject Domain	After attending the program the faculty and students have a thorough understanding of :- <ul style="list-style-type: none"> • Introduction to various switching techniques. • Recent techniques in the field

						of switching systems. Switching systems for LAN,WAN and Optical networks.
3	Machine Learning & its Applications : Hands on Approach	23rd to 27th July 2018	Faculty-UG & PG	71	Subject Domain	<p>After attending the program the participants will have a thorough understanding of features and targets in</p> <ul style="list-style-type: none"> • machine learning, types of regression models, gradient descent algorithm, Bayesian learning, Naïve Bayes algorithm, Neural network architecture, • feed forward and back propagation algorithms, various clustering algorithms like K-means clustering, Hierarchical clustering. <p>Further, participants have been exposed to applications of machine-learning, case-studies and their implementation using python.</p>
4	Higher Education Abroad/International Education Exposure	25/09/2018	UG students	56	Others: Higher Education	<ul style="list-style-type: none"> • Geared towards academic and professional success • Real time, latest and genuine information • Hazel free services with 100% success rate <p>International Education Exposure</p>
5	LabView and Remote Engineering	30th & 31st October 2018.	UG students	69	Subject Domain	<p>After attending the program the students have a thorough understanding of :-</p> <ul style="list-style-type: none"> • Introduction to various

						<p>applications of LabVIEW.</p> <ul style="list-style-type: none"> Recent techniques in the field of Remote engineering
6	Career Route Map	06.02.2019	UG students	60	Others: Career Building	<p>The workshop provides the participants information about the various possible career paths they can choose after graduation and necessary preparations required. Resource person gave details of jobs available in various domains like Networking, Embedded Software, Telecom OSS, Telecom Equipment Manufacturers etc. and provided an insight about opportunities available in Government organizations.</p>



SI no 1. Advances in Telecommunication and Skill Development for Career building



SI No. 4. Higher Education Abroad/International Education Exposure



TEQIP-II



SI no. 2. Recent Trends in Telecommunication Switching Systems



SI no. 5. LabView and Remote Engineering

SI no. 6. Career Route Map



SI no. 3. Machine Learning & its Applications : Hands on Approach



2.Details of Industry visits:_(Mention all the events in ascending order)-Include photos for each event

Sl. No.	Title	Date of visit (From and To date)	Place of visit	Beneficiaries: Mention if they are: UG students/PG students/Research Scholars/ Faculty	Number of beneficiaries	Outcomes
1	Industrial visit to Keltron & Harrison Malayalam Tea Estate, Kerala	13.11.2017 - 15.11.2017	Keltron Electronics Pvt. ltd & Harrison Malayalam Tea Estate, Kerala.	UG students & Faculty	42	Awareness given about the manufacturing products in frontline segments such as Aerospace Electronics, Security & Surveillance Systems, Intelligent Traffic Management Systems, Strategic Electronics, IT Solutions, Process Control & Instrumentation, Power Electronics and Electronic Components
2	Industrial Visit to ISRO, Hassana	28.12.2017	Master Control Facility (MCF), Hassan	UG students, PG students & Faculty	40	Awareness given about the past, present & future satellite programs of ISRO
3	Industrial visit to Institute of Satellite Telecom private limited, Pune	28.03.2018 - 30.03.2018	Institute of Satellite Telecom private limited, Pune	UG students & Faculty	44	Awareness given about the Satellite Manufacturing.
4	Industrial visit to RTTC, Mysore	21.05.2018	Regional Telecom Training Centre (RTTC), Mysore	PG students & Faculty	10	Awareness given about the pioneer Telecom Training Centre's in India serving for the training needs on different fields like Telecommunication Finance Management, Computers, GSM, 3G.

5	Industrial visit to Shreyas Paper Mill and Supa Hydroelectric power plant.	15/02/2019 and 16/02/2019	Shreyas Paper Mill and Supa Hydroelectric power plant, Dandeli.	UG students & Faculty	48	Awareness about different control circuits used in paper mill industry and power plant
6	Industrial visit to RTTC, Mysore	25.03.2019	Regional Telecom Training Centre (RTTC), Mysore	UG students & Faculty	37	Awareness given about the pioneer Telecom Training Centre's in India serving for the training needs on different fields like Telecommunication Finance Management, Computers, GSM, 3G.



Industrial visit to KPCL



Industrial visit to RTTC, Mysore



Industrial visit to RTTC, Mysore



Industrial Visit to MCF, Hassan



Sl. No.3. Industrial visit to Institute of Satellite Telecom private limited, Pune



Sl no. 1. Industrial visit to Keltron & Harrison Malayalam Tea Estate, Kerala

Overall Outcomes of TEQIP-III for the department of ETE related to:

Students (UG, PG and RESEARCH SCHOLARS)

- Paper published by Research scholar
- Improved Industry interaction through Industrial visits
- Subject domain update through Seminars
- Hands on training through Workshops
- Students domain knowledge improved
- Students employability improved

Faculty Members

- Subject domain updated through FDP/STTP/Seminar.
- Hands on training through Workshops
- Published Research Papers in reputed National & International Journals/Conferences
- Increased Motivation
- Faculty got certified by NPTEL and IITs/IISc
- Inculcated self-learning mode

Technical Staff

- Improved Hands-on training in laboratories
- Technology Upgradation
- Increased Motivation
- Improved equipment maintenance and servicing in laboratories
- Increased Domain Knowledge
- Improved financial management in procurement

Staff

- Improved Skills in office
- Increased Motivation
- Improved students-staff relation
- Improved file management
- Improved administrative skills
- Improved in overall performance

Suggestions for further improvement:

- Increased facility for better Online mode teaching
- Incubation Centre to be established

- Consultancy to be started.

Department of Electronics & Communication Engineering (ECE)

April 2017-June 2018

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Induction Training for 1 st yr and lateral entry students	200	1 st year UG Students 1 st year PG students Lateral entry students	<p>Induction programme for I Year students of 2017-18 batch was conducted The college's introduction was explained in detail through presentations made by the Principal.</p> <ul style="list-style-type: none"> • Gave a vivid explanation on the Credit system, IDE, Subject choice, academic dos and don'ts to make the students comfortable with the academics. • Gave a clear description of what CIEs and SEEs make them understand the Autonomous exam system. • Benefits of the memberships of Professional Societies • Language Proficiency in UG Education • Creative practices- in UG Education. 	<ul style="list-style-type: none"> • Benefits of the memberships of Professional Societies • Language Proficiency in UG Education • Creative practices- in UG Education. • Professional Ethics • Outcome Based Education • Human Values & Professional Ethics • Importance of Computer Programming in Technical Education • students were familiarized with all UG and PG departments, Library, Yoga- Importance of Health, Sports & Games-Importance

			<ul style="list-style-type: none"> • Professional Ethics • Outcome Based Education • Human Values & Professional Ethics • Importance of Computer Programming in Technical Education • Students were familiarized with all UG and PG departments, Library, Yoga-Importance of Health, Sports & Games-Importance 	
GATE Registration Fees (Mention only for final year students)	SC=2, ST=10, GM=90, MALE=52 FEMALE=50	UG Students	Students are applied for GATE exam 2018 and aiming for Higher studies through Gate.	Student got benefited with Gate fees motivated them to apply as well as view of higher studies.
Any other	50	UG Students	<p>The following workshops were conducted:</p> <ul style="list-style-type: none"> -Social Impact of convergence of cloud and IOT -VLSI Testing and Verification -Python Programming and Introduction to Machine Learning 	The three events which are conducted leads to improvement in student learning in their academics related to VLSI, IoT, Python and Machine Learning.
Research Assistantships				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes (Write it pointwise: Related to Publications, Patents etc.)

Research Assistantship for full time Ph.D scholars	OBC-1	Research Scholar is: Naveen K N	<ul style="list-style-type: none"> • During this period, completed Course Work • Research mainly concentrated on one of the parameters 'Miss-Detection Performance' 	Published one paper titled "Multi-User Ranging Code Detection in OFDMA System Using MMLD Algorithm for Improving Detection Performance"
Faculty/Staff Development and motivation				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Short Term Training Programmes (STTP) in house	SC: 4 ST: 1 GM:6 Male: 6 Female: 5	Faculty UG Faculty PG	Two days' workshop Latest Trends in Robotics and Automation has been conducted for Faculty and students on 08.02.2018 and 09.02.2018	Faculty and Students got benefited with Robotics concepts used for automation of some methods.
Registration fee and TA/DA for STTP in other reputed institutes	SC: 3 ST: 1 GM:6 Male: 6 Female: 4	Faculty UG: 10	<ul style="list-style-type: none"> • Dr. J S Baligar and Usharani attended Induction programme for New Students. At College of Engineering Pune and Spent Amount of Rs. 24125 and 22850 respectively. 	Adoptation of native methods in day today life, agriculture methods shared with students.
4. Attending Conferences/ Seminars / Workshops			<ul style="list-style-type: none"> • Harsha R attended Entrepreneurship Development Programme in Entrepreneurship at SJBIT, Bangalore 	Shared knowledge with students and motivate them to be an entrepreneur

			<ul style="list-style-type: none"> • Manjula, Kavya S, Vidyashree C, Anand H D attended Programming ARM processor with hands on using ESA Keil/ARM Cortex-M3 Evaluation Board at BMSIT&M at Doddaballapur 	<p>Gained knowledge</p> <ul style="list-style-type: none"> • Familiarized with ARM Cortex processor instruction • Familiarized with Keil Software • Writing program for ARM Cortex Processor • Embedded C language • Made easy to handle Embedded lab
			<ul style="list-style-type: none"> • Mohan Kumar V attended Power Electronics and its Applications at Chandigarh 	<ul style="list-style-type: none"> • Pursuing Ph.D in Power electronics (Energy Harvesting) • Published the energy harvesting mechanism in International Journal.
			<ul style="list-style-type: none"> • Dr. Mahalinga V Mandi and Dr. Ramesh attended Achieving Excellence in Engineering Education at Shimla 	<p>Gained knowledge for bringing excellence in Engineering education and adopted things in our practice.</p>
			<p>The following programs are attended by faculty members of the department:</p> <ul style="list-style-type: none"> • Induction programme for New Students • Entrepreneurship Development Programme in Entrepreneurship • Programming ARM processor with hands on using ESA Keil/ARM Cortex-M3 Evaluation Board • Power Electronics and its Applications • Achieving Excellence in Engineering Education 	<p>Respective Faculty Gain knowledge on Entrepreneurship skills and guided students to be an Entrepreneur, Keil/ARM Processor, Power Electronics concepts helped in curriculum design, Research and Teaching.</p>

Faculty and staff training in industry (registration fees, TA/DA, accommodation etc.)		Faculty UG	Two days' workshop Latest Trends in Robotics and Automation has been conducted for Faculty and students on 08.02.2018 and 09.02.2018	Faculty and Students got benefited with Robotics concepts used for automation of some methods.
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Research and development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Fees and facilitation charges for patent filing for faculty and students	ST	Faculty-UG Dr. Shivaputra	Patent Title: Planar Inverted-F Antenna (PIFA) With Improved Bandwidth And Impedance	Patent Filed: 25/04/2018, Patent Published: 04/05/2018, Application Number: 201841015587 A, Yet to Award
	ST	Faculty-UG Dr. Shivaputra	Patent Title: Multi Band Microstrip Patch Antenna	Patent Filed: 11/06/2018, Patent Published: 22/06/2018, Application Number: 201841021711 A, Yet to Award
	GM:01	Faculty-UG Dr. Mahalinga V Mandi	Filed Indian patent titled "Methods for generating Highly Random Sequences over Finite Fields for FHSS (Frequency Hopping Spread Spectrum) Systems"	Patent Application No: 201741020859 filed on 1506.2017 and published on 21.12.2018

Mentoring/Twinning system

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Two way faculty, staff and student exchange programs for training and academic activities	ST-1	Dr.Jayaramaiah G V and Dr.Shivaputra	To guide the teaching faculty and students of the partner Institute in the respective department subjects Dr.Jayaramaiah G V and Dr.Shivaputra visited Institute of Engineering and Technology, DR.RML Awadh university, Faizabad, Uttar Pradesh on 07.02.2018 to 11.02.2018	Faculty were guided and Students of Mentee Institute gained knowledge

Management Capacity Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
NPIU workshops, etc.	GM-01	TEQIP-3 Officials Dr. MVM	Attended FDP titled “Preparation of Procurement Plan and Action Plan for Academic Activities” on 4th August 2017 held at Abdul Kalam Technical University, Lucknow	Guidelines were given to prepare action plan for procurement and academic activities to be conducted in TEQIP-3

Industry-Institute Interaction

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
TA/DA of students and	50	UG Students	Students with Faculty had Industrial	Student got the knowledge of

faculty for Industry Visits			Visit to BMRCL on 22 nd January 2018. Visited metro train and maintenance system.	Electronics involved in BMRCL metro mechanism and system.
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April 2018-June 2019

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Induction Training for 1 st Yr. and lateral entry students	175	UG Students	<p>Induction programme for I Year students of 2018-19 batch was conducted The college's introduction was explained in detail through presentations made by the Principal.</p> <ul style="list-style-type: none"> • Gave a vivid explanation on the Credit system, IDE, Subject choice, academic dos and don'ts to make the students comfortable with the academics. • Gave a clear description of what CIEs and SEEs make them understand the Autonomous exam system. • Benefits of the 	<ul style="list-style-type: none"> • Language Proficiency in UG Education • Creative practices- in UG Education. • Professional Ethics • Outcome Based Education • Human Values & Professional Ethics • students were familiarized with all UG and PG departments,

			memberships of Professional Societies • Language Proficiency in UG Education • Creative practices- in UG Education. • Professional Ethics • Outcome Based Education • Human Values & Professional Ethics • Importance of Computer Programming in Technical Education • students were familiarized with all UG and PG departments, Library, Yoga-Importance of Health, Sports & Games-Importance	Library, Yoga-Importance of Health, Sports & Games-Importance
3.Training of faculty mentors by induction coordinators already trained (Own faculty/Hired experts)	15	Faculty UG	Faculty Induction programme from 30 th July to 4 th August 2018 • Resource person Sri.Ashok Kumar Gopala explained the importance of introducing ‘values’ in education in order to reach all beings. Because Human Values course is an attempt to teach about values. The course strives to teach about values by remaining connected to the present situation. • He explained the	Benefits: • Importance of ‘values’ in education in order to reach all beings. • The importance of the value of ‘Gratitude’. • Importance of healthy competition and the importance of cooperation as every person has unique talents, unique strengths and working together as a

			<p>importance of the value of 'Gratitude' – people who help us to live, people who have done things in the past or who are doing things for them.</p> <ul style="list-style-type: none"> • The resource persons spoke in detail about the importance of healthy competition and the importance of cooperation as every person has unique talents, unique strengths and working together as a team they can reach ultimate glory. • Citing various case studies they explained ragging, how it violates student's dignity and explained the teacher's responsibility towards it. • Responding for 'peer pressure' is part of human nature. • Self confidence • Basics of self-confidence are the approval/ acceptance of the people around • The resource persons explained the seven relationships, harmony in relations and also expectations and values in relationships. 	<p>team</p> <ul style="list-style-type: none"> • Teacher's responsibilities. • Peer pressure management skills • Self confidence • Relationship managing skills • Anger managing skill
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			<ul style="list-style-type: none"> This topic was discussed in detail as an emotion and its various facts and also suggested few solutions for not getting angry. 	
GATE Registration Fees (Mention only for final year students)	SC:8, ST:3, GM:61 MALE:39, FEMALE:33	UG Students	Students are applied for GATE exam 2019 and aiming for Higher studies through GATE.	Student got benefited with Gate fees motivated them to apply as well as view of higher studies. Three students got qualified
Career Counselling for Students	MALE: 150 FEMALE :130	UG students 6 th semester students of ECE 8 th semester students of ECE	<p>1. Three days program “Formula For Success” has been conducted by unique consultancy services on 12th march to 14th march 2019 for 6th semester students of ECE to guide them regarding personality development, how to face interview, communication skills and to improve their vocabulary. Which will helps in career development in future.</p> <p>2. Three days program “Finishing School-Parivarthan” has been conducted from 6th February 2019 to 8th February 2019.</p>	Students learnt and benefited with personality skills to acquire better career in their placements.
Student Visits to IIT & R&D organizations	OBC=4, GM=1, MALE=4, FEMALE=3	Students of UG Final Year Akshay N A Bhumika P Heera P	Seven Students of the Department are Participated in technical fest Cognizance 2019 event, at IIT Roorkee from 15th March to 17th March, 2019 and presented their project based on robotics.	Student learned more project based skills at the event venue and improve their skills. Exposure to Premier Institution

		Poornima C M			
		Sandeep S A			
		Sharath N			
		Bharath K			
TA / DA for students Registration Fees for participating in Tech Fest of IIT/NIT	OBC=4, GM=1, MALE=4, FEMALE=3	Students of UG Final Year		Seven Students of the Department are Participated in technical fest Cognizance 2019 event, at IIT Roorkee from 15th March to 17th March, 2019 and presented their project based on robotics.	Student learned more project based skills at the event venue and improve their skills. Exposure to Premier Institution
		Student Name	Amount in Rs.		
		Akshay N A	10953		
		Bhumika P	10953		
		Heera P	10953		
		Poornima C M	10953		
		Sandeep S A	10953		
		Sharath N	10953		
		Bharath K	10953		
Exposure visits of social backward and girls students to reputed organizations/any other place	GM=3 FEMALE=3	Student Name	Amount in Rs.	These Students of the Department are Participated in technical fest Cognizance 2019 event, at IIT Roorkee from 15th March to 17th March, 2019 and presented their project based on robotics.	Student learned more project based skills at the event venue and improve their skills. Exposure to Premier Institution
		Bhumika P	10953		
		Heera P	10953		

Poornima C M	10953
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Research Assistantships

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
1. Research Assistantship for full time Ph.D scholars	OBC	Research Scholar: Naveen K N	<ul style="list-style-type: none"> During this period, work concentrated on the other two parameters 'Timing Offset Estimation' and 'Power Estimation' 	Published papers on the following titles: <ul style="list-style-type: none"> Performing Ranging Process on OFDMA System Using MMLD Algorithm for Improving Timing Offset Estimation MMLD Algorithm for Power Estimation in OFDMA System

Graduate Employability

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Awareness drive/ workshops about the idea of 'Innovation' & 'Start-up	60	UG Students	1. Growth Planning and Mentoring for Start-Ups conducted on 27 th September 2018.	Students are motivated and benefited with skills, to become on Entrepreneur and for start-up an industry.
Soft Skill training (Industry Readiness)	MALE: 50 FEMALE : 30	6 th semester students of ECE	1. Three days program "Formula For Success" has been	Students learned and benefited with personality skills, interview skills to

		8 th semester students of ECE	<p>conducted by unique consultancy services on 12th march to 14th March 2019 for 6th semester students of ECE to guide them regarding personality development, how to face interview, communication skills and to improve their vocabulary. Which will helps in career development in future.</p> <p>2. Three days program “Finishing School-Parivarthan” has been conducted from 6th February 2019 to 8th February 2019.</p>	acquire better career in industry.
Organizing motivational talks by local entrepreneurs	60	UG Students	Entrepreneurship Awareness Camp conducted on 25 th September 2018.	Students are motivated and benefited with Entrepreneurship skills, to become on Entrepreneur or for startup an industry.
E-summits, conferences, seminars and other Entrepreneurship fests (organizing as well as attending)	OBC=3, GM=3	Chandrakanth R Bhargava U G Chinmaya G Harsha R Jeevan Kumar S Anil Kumar S R	Students attended “Fastest Line Follower Competition” with their project in Technoxian Championship 2018 from 30 th june and 1 st July at New Delhi	Student learned more project based skills at the event venue and improve their skills.

Student training on interpersonal skills	MALE: 50 FEMALE : 30	6 th semester students of ECE 8 th semester students of ECE	1.Three days program “Formula For Success” has been conducted by unique consultancy services on 12 th march to 14 th march 2019 for 6 th semester students of ECE to guide them regarding personality development, how to face interview, communication skills and to improve their vocabulary. Which will help in career development in future. 2.Three days program “Finishing School-Parivarthan” has been conducted from 6th February 2019 to 8th February 2019.	Students learned and benefited with personality skills to acquire better career in their placements.
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Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Short Term Training Programmes (STTP) in house	SC: 6 ST: 2 GM: 5 MALE: 11 FEMALE:3	Faculty UG Faculty PG	Six Days Workshop on Advances in Digital Signal Processing and Robotics organized in the department. Faculty and student got benefited with advanced concepts.	
Registration fee and TA/DA for STTP in other reputed institutes	SC:7 ST:2 GM:6 Male:13 Female: 2	Faculty UG Faculty PG	Next Generation Wireless Networks at Chandigarh NBA & NAAC Accreditation at Engineering Staff College of India (ESCI), Hyderabad Internet of Things (IoT) with cloud	Faculty got enriched with knowledge on wireless

			applications at Electronics & ICT Academy IIT, Roorkee in association with Shri Mata Vaishno Devi University	networks, IOT, High performance computing, pattern recognition, NBA/NAAC and energy technologies.
			High Performance Computing (HPC'18) at NIT, Agarthala	
			Strategic Quality Initiatives in Technical Education at Kadmat	
			FDP on Pattern recognition and Image processing at department of CSE, IIT Roorkee	
			Improving Teaching, Learning & Research Competence by Engineering Staff College of India (ESCI)	
			Clean Energy Technologies at IIT Guwahati	
Attending Conferences/ Seminars / Workshops	SC: 3 OBC: 1 FEMALE:4	UG and PG faculty	1.Presented paper "Optimal Resource Allocation and Binding In High Level Synthesis Using Nature Inspired Computation" at P.E.S. College of Engineering, Mandya- Dr.Shilpa K C	Faculty presented and published paper on their research work
			2.International Conference at Mechanical, Aerospace and Production Engineering (ICMAPE-2019) and Industrial Electronics and Electrical Engineering (ICIEEE-2019), Gangtok, Sikkim, India- Kavitha Devi C S and Shwetha N	
			3. Designing of Reconfigurable Compact Bandpass Microstrip Filter at Coimbatore- Kavitha Devi C S	
Support Staff training	GM: 2	1. Munavar Basha,	The STTP on Next Generation	Learnt about wireless

		Foreman 2. Shakle N R, Instructor	Wireless Networks held at National Institute of Technical Teachers Training and Research, Sector 26 Chandigarh, Government of India, concentrates on wireless technology from 16th July to 20th July 2018	technology and future of wireless technology, which help us to train students in lab.
	SC: 3	1. Jayaramu S K, Asst.Instructor 2. Shakuntala K V, Instructor 3. Narayana H, Asst.Instructor	The Staff Development Priogram conducted by National Skill Trainers' Institute (Campus-I), at Bengaluru gives insight about PIC Microcontroller and its applications from 16th July to 20th July 2018	Learnt about the usage of PIC Microcontroller and its applications. Which help us to train students in lab.

Research and development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Research Assistantship	01	Naveen	Presented papers at conferences	Writing thesis

Mentoring/Twinning system

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Two way faculty, staff and student exchange programs for training and academic	23 Students	UG Students	FDP on Embedded System Design and IOT from 09/10/2018 to 15/10/2018 Institute of Engineering and	Members of Mentee institute got benefited from the event.

activities			Technology, DR.RML Awadh university, Faizabad	
		Staff	IET, Ayodhya had invited TEQIP-III officials/staffs and senior administrative staff of Dr.AIT (Mentor Institute) to visit and guide the TEQIP-III activities from 21/01/2019 to 23/01/2019	Staff of Mentee Institute are guided and suggested to carry activities under TEQIP-III
		UG Students	To teach course subjects to students of Institute of Engineering and Technology, DR.RML Awadh university, Faizabad, Uttar Pradesh by Meenakshi L Rathod, Kavitha Devi CS, Swetha N conducted class on DSP, Microwave and antenna subjects for students of mentee institute on 24th to 28th March 2019	Mentee institute Students gained knowledge about the subjects like Digital Signal Processing, Microwave antenna.
		Staff	Dr.Mahalinga V Mandi Coordinator, Dr. Ramesh S Nodal Officer Finance and Dr. Shivaputra Asst. Professor visited Mentee Institute from 2nd May to 06th May 2019	Staff of Mentee Institute are guided and suggested to carry activities under TEQIP-III

Reforms, Governance

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
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Accreditation & UGC Autonomy fees, Workshop on OBE/SAR filing, mock visits through experts - TA/DA, honorarium etc.	1	Faculty UG: Dr. G V Jayaramaiah	Dr. G V Jayaramaiah participated in 4th World Summit on Accreditation (WOSA-2018) from 07-09-2018 to 09- 09-2018	Benifited from WOSA-2018 and knowledge is helpful in Accreditation process of the department.
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Management Capacity Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Management Capacity Building programmes at IIM;	1	Dr. G V Jayaramaiah	Participated in Trends & Challenges in Higher and Technical Education at Port Blair.	Understand the Challenges in Higher and Technical Education, leads to bring modification in curriculum content with industry point of view.
	1	Dr. G V Jayaramaiah	Participated in Professional Development Training at IIM, Indore	Guided Faculty members about the professional development and growth.

April 2019-June 2020

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
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IIT/ NIT training to students at IIT/NIT or in parent institute	50	UG Students	<p>5-Day MHRD TEQIP-III course on Internet of Things(IOT) 24/2/2020 to 28/2/2020 Initiative of the MHRD, Govt. of India Conducted by IIT Bombay.</p> <p>The Internet of Things (IoT) is a network of physical objects or people called "things" that are embedded with software, electronics, network, and sensors which allows these objects to collect and exchange data.</p> <p>Various applications of IoT are Smart Thermostats, Connected Cars, Activity Trackers, Smart Outlets, Connect Health, etc.</p> <p>Technical Optimization, Improve Data Collection, Reduced Waste, Improved Customer Engagement are key benefits of IoT Security, Privacy, Complexity, Compliance, are key challenges of IoT</p>	<p>Post training student assessment is done by NASSCOM.</p> <p>Students took the exam after they were trained and qualified in NASSCOM exam.</p>
Induction Training for 1 st yr and lateral entry students	175	UG Students	<p>Induction programme for I Year students of 2019-20 batch was conducted The college's introduction was explained in detail through presentations made by the Principal.</p> <ul style="list-style-type: none"> • Gave a vivid explanation on the Credit system, IDE, Subject choice, academic dos and don'ts to make the students comfortable with the academics. 	<ul style="list-style-type: none"> • Language Proficiency in UG Education • Creative practices- in UG Education. • Professional Ethics • Outcome Based

			<ul style="list-style-type: none"> • Gave a clear description of what CIEs and SEEs make them understand the Autonomous exam system. • Benefits of the memberships of Professional Societies • Language Proficiency in UG Education • Creative practices- in UG Education. • Professional Ethics • Outcome Based Education • Human Values & Professional Ethics • Importance of Computer Programming in Technical Education • students were familiarized with all UG and PG departments, Library, Yoga- Importance of Health, Sports & Games-Importance 	<p>Education</p> <ul style="list-style-type: none"> • Human Values & Professional Ethics • students were familiarized with all UG and PG departments, Library, Yoga- Importance of Health, Sports & Games-Importance
GATE Registration Fees (Mention only for final year students)	GM:74, MALE:40, FEMALE:34	UG Students	Students are applied for GATE exam 2020 and aiming for Higher studies through GATE.	Student were given GATE coaching and GATE fees was reimbursed to them that motivated them to apply for higher studies.
Any other	MALE:35 FEMALE:39	UG Students	The workshop conducted for 5th semester students, to provide knowledge about “Arduino Programming and Hands-on experience”.	Students done mini projects and main projects in 6th and 8th semesters. They

			Students learnt interfacing of different sensors, creating a bot and controlling of movement, the event end with an competition of building bot and bot race.	presented papers in conferences and wrote papers and published in Journals.
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Research Assistantships

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
1.Research Assistantship for full time Ph.D scholars	OBC-1	Research Scholar Naveen K N	<ul style="list-style-type: none"> During this period, I completed Comprehensive Viva 	<ul style="list-style-type: none"> Submitted and published one work In SCIE Journal – IET Communications

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Registration fee and TA/DA for STTP in other reputed institutes was provided for faculty /staff	SC:1 GM:1 ST:1 OBC: 1	UG and PG Faculty	<p>1.Summer School Artificial Intelligence and Machine Learning 2019 at Computer Science and Engineering, Indian Institute of Technology, Tirupati, Andhra Pradesh</p> <p>2. Advances in Multicore Computer Architecture Design at National Institute of Engineering, Mysore</p> <p>3. Mechatronics and Artificial Intelligence at BMSCE, Bangalore</p>	Faculty gained knowledge and useful in Teaching students in theory and labs.

IIT training to faculty at IIT or in parent institute	SC:4 OBC:2 GM:1 Male: 4 Female: 7	UG and PG faculty	1.Attended IIT, Roorkee and Trained on Cyber Security and Trained students of the institute 2. Attended IIT, Bombay and Roorkee and Trained on Robotics and Automation, and Trained students of the institute 3. Attended IIT Bombay and Roorkee and Trained on IoT, and Trained students of the institute.	Faculty gained knowledge and useful in Teaching students in theory and labs. Students were further trained and certified by NASSCOM. It is helpful for their higher studies and placements.
Attending Conferences/ Seminars / Workshops	OBC: 1	Faculty-UG Mr. Sujay S N	National Conference entitled “Emerging Trends in Engineering & Technology” during 27-28 July 2019 under TEQIP-III at IET, Dr. Rammanohar Lohia Avadh University, Ayodhya. Presented a research paper on Face Recognition using HOG Features	Presented a paper as a part of research work for PhD.
	OBC: 1	Dr. Rangaswamy Y	National Conference entitled “Emerging Trends in Engineering & Technology” during 27-28 July 2019 under TEQIP-III at IET, Dr. Rammanohar Lohia Avadh University, Ayodhya. Presented a research paper on Histogram based Iris recognition using CLBP and FFT	Presented a paper as a part of research work.
Faculty training on NASSCOM future skills	SC: 4 OBC: 2 GM: 5	Faculty UG Faculty PG	1. Cyber Security at IIT Roorkee from 10 th Feb to 21 st Feb 2020 2. Internet of Things at IIT Bombay from 24 th Feb to 28 th Feb 2020	Faculty Trained by IIT Roorkee, Bombay, Madras and Guwahatti.

	MALE: 4 FEMALE:7		3. Robotics and Automation at IIT Madras and Guwahati 15 th Feb to 28 th Feb and 3 rd to 13 th March 2020 respectively.	They trained students of various departments. Students are certified by NASSCOM
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MOOCs and Digital Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes (Write it pointwise)
Certification fees for online courses (MOOC's)	SC:03 ST:02 Male:03 Female:07	Ripal Patel	Practical Machine Learning with TensorFlow	Faculty undergone course in NPTEL and shared knowledge with students in theory and practical classes. Utilized knowledge in Teaching and Research.
		Spoorthi P A	Advanced Communication	
		Shwetha N	Digital Signal Processing	
		Meenakshi L Rathod	Microelectronics Devices to Circuits	
		T N Swamy	Introduction to Research	
		Dr. Shivaputra	Microelectronics Devices to Circuits	
		Shwetha M	Introduction to Research	
		Dr. H Umadevi	Microelectronics Devices to Circuits	
		Akalpita L Kulkarni	Microwave Engineering	
		Hemanth M R	Introduction to Internet of Things	

Mentoring/Twinning system

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes (Write it pointwise)
Two-way faculty, staff and student exchange programs for training and academic activities	15	UG and PG faculty	Workshop on "NBA and OBE" on 2nd and 3 rd August 2019 under TEQIP at IET, Dr. Rammanohar Lohia Avadh University , Ayodhya.	Guided Faculty of IET, Ayodhya about OBE and importance, process for NBA accreditation.
	15		To review TEQIP-III activities and development of Communication Lab for the Mentee Institute from 14 th to 18 th September 2019	Reviewed TEQIP-III activities and suggested to carry out further activities
	14		To review TEQIP-III activities and development of Communication Lab for the Mentee Institute from 6 th to 9 th September 2019	Reviewed TEQIP-III activities and suggested to carry out further activities
	12		To review TEQIP-III activities and development of Communication Lab for the Mentee Institute from 7 th December to 11 th December 2019	Reviewed TEQIP-III activities and suggested to carry out further activities

April 2020-June 2021**Improve Students Learning**

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
IIT/ NIT training to students at IIT/NIT or in parent institute	SC: 05 ST: 00 OBC: 25 GM: 20 MALE: 20 FEMALE: 30	Students-UG 1. Electronics and Communication Engineering 2. Electronics and Instrumentation Engineering 3. Information Science and Engineering 4. Computer Science and Engineering 5. Mechanical Engineering	The TEQIP-III assisted online students training on future skills technology: Robotics and Automation was organized of interested students of various branches of Dr.AIT by the faculty who were trained at various IITs, from 22.07.2020 to 17.01.2021. Total students enrolled for this training program is 50 and he training had been completed in 60 sessions during the above said duration.	Students are benefited with Future Skills related to robotics concepts and Exams were conducted by NASSCOM and students are certified.
Induction Training for 1 st yr and lateral entry students	175		Induction programme for I Year students of 2020-21 batch was conducted The college's introduction was explained in detail through presentations made by the Principal. <ul style="list-style-type: none"> • Gave a vivid explanation on the Credit system, IDE, Subject choice, academic dos and don'ts to make the students comfortable with the 	<ul style="list-style-type: none"> • Language Proficiency in UG Education • Creative practices- in UG Education. • Professional Ethics

			<p>academics.</p> <ul style="list-style-type: none"> • Gave a clear description of what CIEs and SEEs make them understand the Autonomous exam system. • Benefits of the memberships of Professional Societies • Language Proficiency in UG Education • Creative practices- in UG Education. • Professional Ethics • Outcome Based Education • Human Values & Professional Ethics • Importance of Computer Programming in Technical Education • students were familiarized with all UG and PG departments, Library, Yoga- Importance of Health, Sports & Games-Importance 	<ul style="list-style-type: none"> • Outcome Based Education • Human Values & Professional Ethics • students were familiarized with all UG and PG departments, Library, Yoga- Importance of Health, Sports & Games-Importance
GATE Orientation and Preparation Classes	Total 120	UG Students	Organized a talk on “Gate Importance and Scope” for Final Year Students of ECE on 26 th September 2020. Talk delivered by Dr. Ramesh S, HOD, Dept. of ECE	Students are aware of importance and scope in Gate qualification and enrolled for Gate 2021.
GATE Registration Fees		UG Students	Students are applied for GATE exam 2021 and aiming for Higher studies through	Student got benefited with Gate fees motivated

			Gate.	them to apply as well as view of higher studies. Two students got qualified.
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Research Assistantships

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Research Assistantship for full time Ph.D scholars	OBC-1	Naveen K N: Research Scholar	<ul style="list-style-type: none"> During this period, Completed Open Seminar I, Open Seminar II and Colloquium Completed thesis and ready to submit 	<ul style="list-style-type: none"> Submitted and published work in SCIE Journal – IETE Journal of Research

Graduate Employability

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Conducted training on NASSCOM future skills	SC: 4 OBC: 26 GM: 5 MALE: 4 FEMALE:7	Students UG	Cyber Security from 20 th July to 22 nd July 2020 to 7 th September 2020	The Faculty Trained by IITs, trained students of various departments. Students assesment conducted and certified by NASSCOM
	92	Students UG	Internet of Things from 22 nd July to 30 th September 2020	
	SC: 5 OBC: 25	Students UG	Robotics and Automation from 22 nd July to 6 th September 2020	

GM: 20
MALE: 20
FEMALE:30

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Attended Conferences/ Seminars / Workshops	SC:1 OBC:2 MALE:1 FEMALE:2	UG and PG Faculty	Paper Presentation on Energy-Aware Scheduling Approach using DVFS and Particle Swarm Optimization for Heterogeneous Multicore Processors organized at NMIT, Bangalore on 26th September, 2020	Presented Paper in conference as outcome of research.
			Paper Presentation on Performance Analysis of Self Adaptive Equalizers using Nature Inspired Algorithm at RVS Technical Campus, Coimbatore on 24-25, September, 2020	
			Performance Analysis of Self Adaptive Equalizers using Nature Inspired Algorithm at SCAD Institute of Technology at Palladam, Coimbatore	
Faculty training on NASSCOM future skills	SC:3 ST:1 MALE:2 FEMALE:2	Faculty UG	Future skill technology training on following subjects conducted by various IITs 1. Artificial Intelligence & Machine Learning 2. Virtual Reality 3. Internet of Things	The Faculty Trained by IITs, trained students of varius departments. Students are certified by NASSCOM



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Department of Electronics and Communication Engineering

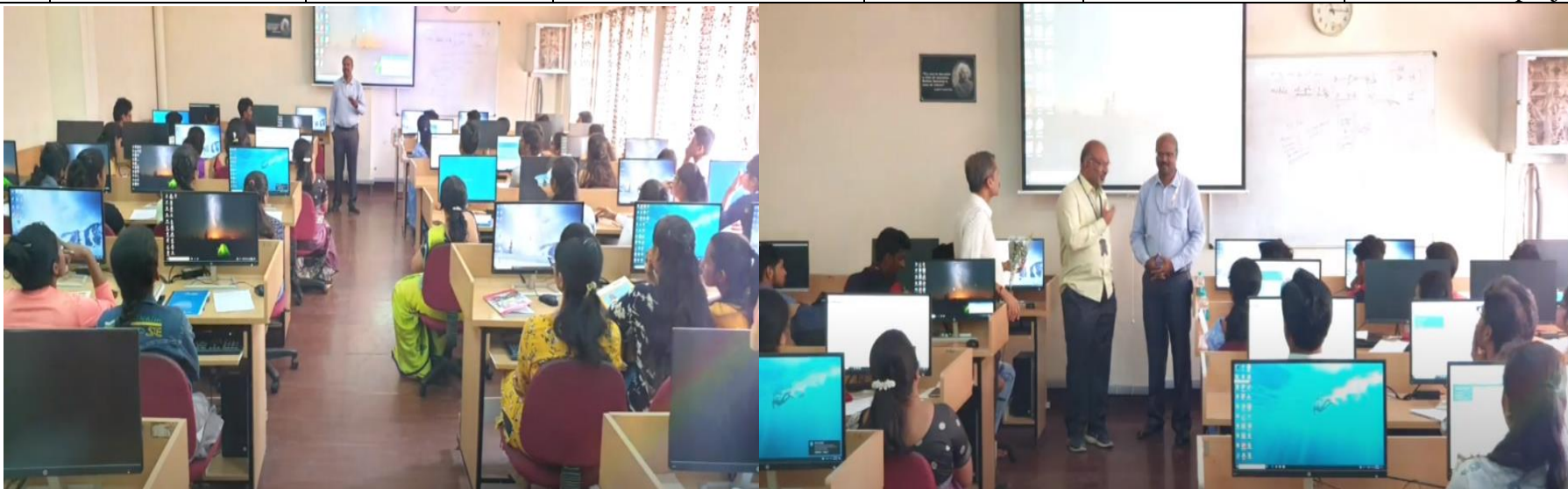
Department Activities under TEQIP-III (From April 2017 till date:)

1. Events organized by the department:

Sl. No.	Title of program	Date of program conduction	Beneficiaries:	Number of beneficiaries	Mention if the program is: Pedagogy/ Subject Domain/ R&D/ Industry Training/ Management Development/ Others	Outcomes
1	Social Impact of convergence of cloud and IOT	30/01/2018	Students and faculty of ECE Department	60	Seminar	• Attendees got the knowledge of comparison from the previous methods in technology, how they

						<p>worked, what were their drawbacks, to new methods and their remarkable improvement.</p> <ul style="list-style-type: none"> • The technology of cloud computing is, so important to be learnt in current situation, is that without it a part of the internet would be dysfunctional.
2	Latest Trends in Robotics and Automation	08.02.2018 and 09.02.2018	Students and faculty members of ECE Department	60	Workshop	<ul style="list-style-type: none"> • Students benefited with Robotics concepts. • Adopted knowledge in mini and main Projects. • Faculty gained knowledge and guided students in class and in projects.
3	Python Programming and Introduction to Machine Learning	01.03.2018 and 02.03.2018	UG Students	60	Workshop	<ul style="list-style-type: none"> • Students benefited with Python Programming concepts. • Adopted knowledge in mini and main Projects. • Faculty gained knowledge and guided

						students in class and in projects.
4	VLSI Testing and Verification	11.04.2018 to 13.04.2018	Faculty members and UG students	60	Workshop	<ul style="list-style-type: none"> • Students benefited with VLSI Testing and verification concepts. • Adopted knowledge in mini and main Projects. • Faculty gained knowledge and guided UG, PG students in class and in projects.




5	Advances in Digital Signal Processing and Robotics	27/08/2018 - 01/09/2018	UG, PG Faculty	60	FDP	<ul style="list-style-type: none"> • Faculty gained knowledge related to Digital Signal Processing
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						<ul style="list-style-type: none"> •Guided students in class and Lab. •Guided Student Projects
6	Formula for Success	12.03.2019 - 14.03.2019	UG Students	60	Workshop	<ul style="list-style-type: none"> •Students got Personality skills, confidence for Attending interviews. •Students learnt and benefited with personality skills to acquire better career. •Students benefited with interview skills helped in their placements.



7	Arduino Programming for Hardware Interface: Hands-on Approach	19.10.2019, - 21.10.2019	UG Students	69	Workshop	<ul style="list-style-type: none"> • Students gained knowledge related to Arduino programming • Students carried out mini Projects • Students carried out Main Projects
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8	Cyber Security	22.07.2020 - 07.09.2020	UG Students	67	Workshop	<ul style="list-style-type: none"> • Students Trained on Cyber Security concepts both Theory and Hands-on • Students are certified by NASSCOM • Students benefited in their placements and in Higher studies.
						
9	Robotics & Automation	22.07.2020 - 06.09.2020	UG Students	50	Workshop	<ul style="list-style-type: none"> • Students Trained on Robotics and Automation concepts both Theory and Hands-on • Students are certified by NASSCOM • Students benefited in their placements and in Higher studies.



10	Internet of Things (IOT)	22.07.2020 to 30.09.2020	UG Students	67	Workshop	<ul style="list-style-type: none"> • Students Trained on Internet of Things concepts both Theory and Hands-on • Students are certified by NASSCOM • Students benefited in their placements and in Higher studies.
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11	Artificial Intelligence & Machine Learning	10.03.2021 - 20.03.2021	UG Students	75	Workshop	<ul style="list-style-type: none"> • Students Understand Classical and Modern AI, formulate problems as learning problems • Understand the role of data in modern AI, Train and evaluate ML-based AI systems • Program AI systems using modern frameworks
12	Virtual Reality	10.03.2021 - 24.03.2021	UG Students	52	Workshop	<ul style="list-style-type: none"> • Introduction to the basics of Virtual Reality (VR) and the technology involved • Appreciate the potential of Virtual Reality • Comprehensive understanding of VR Hardware and Software • Understand the design and implementation of VR systems • In-depth knowledge of the design process for VR including human factors that influence the design, In-depth knowledge on the core components of VR system implementation, Ability to create and deploy an interactive VR system

2.Details of Industry visits:

Sl. No.	Title	Date of visit (From and To date)	Place of visit	Beneficiaries	Number of beneficiaries	Outcomes
1	Robotics Division, TCS Kochi and Control System Division, Harrisons Malayalam Limited, Wayanad, Kerala.	03-03-2017 to 04-03-2017	Robotics Division, TCS Kochi and Control System Division, Harrisons Malayalam Limited, Wayanad, Kerala.	UG Students	40	Students gained knowledge on Robotics concepts
2	BHARAT SANCHAR NIGAM LIMITED	19-02-2018, 20-02-2018, 26-02-2018, 27-02-2018	BHARAT SANCHAR NIGAM LIMITED	UG students	60	Students gained knowledge on Telecommunication switching activity and related concepts
3	Master Control Facility, ISRO Hassan	07/07/2019	MCF, ISRO Hassan	5 th sem UG Students	40	Students gained knowledge on Satelite communication, and controlling action at MCF



4	Solid Waste Treatment Plant, Kormangala, Bangalore	19/09/2019	Solid Waste Treatment Plant, Kormangala Bangalore	UG Students of IDE Subject Solid Waste Management	15	Students gained knowledge on waste management and generation of Gas and Compost from waste
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5	SUPA hydro power plant	3/03/2020 and 04/03/2020	SUPA hydro power plant	UG students	50	Students gained knowledge on power generation
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Overall Outcomes of TEQIP-III for the department of ETE related to:

Students (UG, PG and RESEARCH SCHOLARS)

- All the Students were benefitted with the Infrastructural facilities
- Students visited Industries with faculty and gain knowledge in various domains
- Students are motivated to carry out higher studies
- Workshop and Training programs helped in Placements and Projects

Faculty Members

- Faculty got benefited with visiting IITs, for training on Future skill Technologies
- Faculty trained Students on the various Advanced concepts as an outcome of FDPs
- Faculty benefited with Learning new concepts through various MOOC courses.
- Research and development activities and publications are done by faculty.

Technical Staff

- Technical Staff also undergone training programs, enriched their knowledge
- Guided students in practical lab sessions

Suggestions for further improvement:

- More Fund Required for R&D and Infrastructure
- Fund for Sponsoring faculty and students to foreign countries
- Fund for establishment of Laboratories
- Fund for Sponsoring faculty and students for Industry Interaction

Department of Electrical & Electronics Engineering

Report from April 2017 to June 2018

1.3.2.1 Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Outcomes
IIT/ NIT training to students at IIT/NIT or in parent institute	(SC: ST: OBC: GM: MALE: FEMALE:)	UG students	The Six days' workshop on Renewable Energy Programme was started with a formal inauguration function at 9.00 AM, presided by Sri A.R. Krishnamurthy, Managing Trustee, PVPW. The function was started with an invocation and lighting the lamp. Dr. Jyothi Koujalagi, HOD, Dept of EEE, welcomed the dignitaries and introduced the resource persons. Dr. C. Nanjundaswamy, principal, Dr. AIT narrated the importance of continuous education program through workshops which helps the students to improve their technical knowledge and industrial exposure to build their career. The program was attended by UG students of final year. The resource person Mr. Ramachandra Rao V CEO, Pyra Windo a Power Academy, delivered the keynote address and narrated the salient features of the Programme "Renewable Energy". The programme was also attended by Dr, Naganagowda, Director, NTCST, KPCL, addressed the gathering and explained how they carry out the session to enhance their knowledge. The coordinators	<p>1.Enriched their knowledge with Renewable Energy sources.</p> <p>2.Can generate Electrical Energy other than conventional sources</p> <p>3.Were trained to convert bio waste into electricity or bio fuel</p> <p>4.Were trained to physically how energy can be produced, such as cycling, hand wheels</p>

			<p>expressed their gratitude to the management for providing facility and TEQIP for its financial assistance to the program. The function was ended with vote of thanks along with light refreshment.</p> <p>In the subsequent sessions the company personnel, Mr. Venkata Reddy, director, Mr. Harsha, and Ms. Devishree, of Pyra Windo, Power Academy explained about the importance of renewable energy. They handled theory and practical sessions which includes demonstration on Solar, Wind, Bio and manual form of electrical power generation. The programme was also enriched by inviting the resource persons from various organizations, such as Krishna AN, consultant, Auto Electrical & Wind Turbines; Elankovan, NIT, Surathkal, Narayan from Exide Batteries; Naidu from associated Products; Sathyanarayana from Pyramid Valley.</p> <p>The participants and faculties were also visited the “Mahatma Gandhi Rural Energy Development”, a central government training organization at Yalahanka, Bengaluru</p>	<p>etc.</p> <p>5.Were well acquainted about solar and wind energy systems.</p> <p>6.Various energy systems such as geo thermal were also taught</p> <p>7.They can become entrepreneur in the energy systems.</p>
		UG Students	<p>The programme “JUST ROBOTICS WORKSHOP – SENSE THINK ACT” was started with a formal inauguration function at 9.00 AM, presided by Sri AR Krishnamurthy, Managing Trustee, PVPWT. The function was started with an invocation and lighting a lamp. Dr. Jyothi Koujalagi, HOD, Dept of EEE, welcomed the dignitaries and introduced the resource persons. Dr. c Nanjundaswamy, principal, Dr. AIT narrated the importance of continuous education program through workshops which helps the students to improve their technical knowledge and industrial exposure to build their career. The program was attended by UG students of first year. The resource person Mr. Brijesh C A, CEO Just Robotics, Spendroit Technologies Pvt. Ltd. delivered the</p>	

			<p>keynote address and narrated the salient features of the programme “Just Robotics Workshop – Think Sense Act”. The coordinators expressed their gratitude to the management for providing facility and TEQIP for its financial assistance to the program. The function was ended with vote of thanks along with light refreshment.</p> <p>In the subsequent sessions the resource persons, Mr. Ebin Sunny, Ganesh Prasad, Vamshi Krishna and Robin Mathew explained about the importance of robotics. They handled theory and practical sessions which includes demonstration on different kinds of robots and programming them. The students were able to do programming the robots on their own.</p>	

			<p>The programme Real Time Simulators in Electric Domain was started with a formal inauguration function at 9.00 AM, with the chief guest Sri A R Krishnamurthy, Secretary, PVP welfare trust and preceded by Sri C. Nanjundaswamy, Principal, Dr. AIT. Dr. Jyothi Koujalagi, HOD, Dept of EEE, welcome the dignitaries and introduced the resource person. Principal and secretary narrated the importance of continuous education program such as workshops and short term courses in updating the knowledge of faculty and students. The program was attended by the department faculties, PG students, research scholars and some of the final year UG students. The resource person Rajesh Maurya delivered the keynote address and narrated the salient features of the real time simulator. The coordinators expressed their gratitude to the management for providing facility and TEQIP for its financial assistance to the program. The function was ended with vote of thanks along with light refreshment.</p> <p>The resource persons, Mr. Shashank and Mr.Rajesh Maurya explained about the uses and applications of the real time simulator in four sessions.</p> <p>Typhoon HIL application was demonstrated for the following fields</p> <ol style="list-style-type: none"> 1. Marine Testing 2. Microgrid Testing 3. Converter Testing 4. Research 	
	<p>SC:13 ST:03 OBC:24 GM:20 MALE:34</p>	<p>UG students</p>	<p>The programme Switchgears and Applications was started with a formal inauguration at 9.00 AM, with an invocation and lighting the lamp. Dr. Jyothi P Koujalagi, HOD, Dept of EEE, welcomed the dignitaries and introduced the resource persons. The function was presided by Dr.</p>	<p>1.Enriched their knowledge in Electrical Switchgears.</p> <p>2.Can control the</p>

	FEMALE:26		<p>Meenakshi M Bhat, Dean (academic), Dr. AIT narrated the importance of continuous education program through workshops which helps the students to improve their technical knowledge and industrial exposure to build their career. The program was attended by the department faculty, staff and students of final year UG & PG. The resource person Mr. Srinivas DV, CEO, Universal Power Controls, Tumkur, delivered the keynote address and narrated the salient features of the programme “Switchgears & Applications”.</p> <p>In the subsequent sessions the company personnel, Mr. Shivanand DV, CEO; Mrs. Rajeshwari S, MD; Mr. Basavesha Shetty, EO; Mr. Shiva Kumar L & Mr. Siddesh, Design Engineers; handled the theory and practical sessions which includes demonstrations & hands on trainings At the last day in the valedictory, chaired by Dr. Mahalinga V Mandi, TEQIP Coordinator, Shivanand DV, CEO, UPC; Dr. Jyothi P Koujalagi, HOD, Dept of EEE, the program was concluded with feedback, certificate distribution and vote of thanks.</p>	<p>gadgets without over loading them.</p> <p>3.Can wire the electrical control panels.</p> <p>4.Were trained to wire the single phase and three phase electrical circuits.</p> <p>5.Were able to design starters for various electrical machines.</p> <p>6.They can become entrepreneur in the field of switchgears</p>
	SC:3 ST:0 OBC:12 GM:5 MALE:9 FEMALE:11	PG Students	<p>“MODELLING AND SIMULATION ON POWER ELECTRONICS & DRIVES USING MATLAB” MATLAB has many advantages compared to conventional computer languages (e.g., C, FORTRAN) for solving technical problems. MATLAB is an interactive system whose basic data element is an array that does not require dimensioning. The software package has been commercially available since 1984 and is now considered as a standard tool at most universities and industries worldwide.</p>	<p>1. Its basic data element is the matrix. A simple integer is considered an matrix of one row and one column. Several mathematical operations that work on arrays or matrices are built-in to</p>

				<p>the Mat lab environment.</p> <p>2. Design and analyze control systems.</p> <p>3. Control and communicate with test and measurement instruments.</p> <p>4. Compute PID gains, linearize models, and design control systems.</p> <p>5. You can easily build models from scratch, or take an existing model and add to it.</p>
Any other	Two SC girl students.	PG	The two PG students attended the conference at Vemana Institute of Technology, Bengaluru and Institute for Engineering Research and Publication (IFERP) and presented the paper titled “Simulation of ZVS Inverter with Space Vector Modulation using Simulink” and “Analysis of Power Transformation in SCIG Based Wind Turbine Using Matrix Converter” On 20 th June 2017. The registration fees of Rs 3000/- each is funded by TEQIP.	Completed M.Tech with the journal paper and obtained good CGPA.

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
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Short Term Training Programmes (STTP) in house		Intelligent Algorithms and Applications	<p>This Work shop is intended to enrich the knowledge of Intelligent algorithms and how to apply to solve engineering problems. It includes all types of intelligent algorithms such as Genetic algorithms, particle swarm optimization, ant technology etc., their applications to solve constrained, complicated engineering problems. The Objectives of Training Programme is to train faculty in the field of Intelligent algorithms which are helpful to solve most of the engineering problems of all engineering domains. To strengthen research in the field of optimization using simulation logic by Intelligent algorithm. Different experts in this field, during the lecture, shared the experiences while implementing intelligent algorithms to solve particular type of engineering problems.</p>	Faculty and researchers will be enriched the knowledge in the field of Intelligent algorithms and able to strengthen the research capability to handle highly complicated research projects.
		Energy Management Climate Protection and Resource	<p>The Short Term Course (STC) was started with the registration at 09:30AM on 16th July 2018, in the presence of chief guest and National Institute of Technical Teachers Training and Research (NITTTR) Electrical Engineering faculty to all the participants welcome the dignitaries and introduced the resource persons. The speakers narrated the importance of energy management climate protection and resource management. The rationale of the five-day workshop. To promote understanding of the energy saving system in various applications. Initial stages of the development of quality assurance toolkit that is relevant and adaptable to open education in different context. The program was interesting and useful; also attend by faculties all over the India.</p>	The Training course will relate to: Application of industry and commercial system, will required energy management and climate protection of resource management. The effective course need to improve quality of teaching and learning.
Attended Conferences/ Seminars / Workshops		UG Faculty	<p>FDP Training on <i>Faculty Induction Program</i> at College Of Engineering, Pune through TEQIP-III during 26 Nov 2017 to 02 Dec 2017, During the above FDP Program we learnt many things on the following aspects The study of human being could not be achieved by physiological object centred ideology rooted in instability and uncertainty or</p>	1. We were impressed by the presentation of existence rooted human centred contemplation. Madhyasth_Darshan, Saha-Astitwa-Vad, in

			<p>science. The ideology is pounced human being as a kind of animal. As an alternative, Madhyasth_Darshan Saha Astitwa-vad has recognised and heled others recognise human being in knowledge order, through existence rooted human cantered contemplation. According to Madhyasth_Darshan Saha-Atitwa-Vad, only human being is known in existence and existence in the form of coexistence is the entire object of knowing. This itself is the knowledge from holistic view of Darshan. Along with this, the knowledge of Jeevan (self) and knowledge of “conduct of human”, the path for realizing coexistence has become topic for study.</p>	<p>literature for humankind by the resource persons. 2.We also got the opportunity to see the families those already implemented the above concepts in their life and living happily with their family. 3.The FDP made us to discuss with professors of different disciplines working in various technical educational institution all over the country about the current issue of our day to day life and hoe to implement or improve our teaching and learning process. 4.Our students will learn discipline and ethics when faculty adopt the principles and teach them. 5.Society will be benefitted and environment will have sustained for a long time.</p>
			<p>The programme was started with the formal inauguration function at 9:30AM, in presence of the chief guest and the Principal of SJG polytechnic, the head of the Department of electrical and electronics engineering, welcome the dignitaries and introduced the resource persons, the speakers narrated the importance of software tools such as MATLAB,</p>	<p>The Power System Simulation training course will analyze all aspects related to the: Electrical Power Flow During Normal Operation Optimization Of Electrical</p>

			<p>LabVIEW which helps the students (M-Tech, Power electronics) to improve their technical knowledge and industrial exposure to build their career. Principal addressed the gathering. The program was attended by faculties all over Karnataka of electrical department. The Coordinators expressed their gratitude to the Principal and NITTR Chandigarh for providing facility and I thank TEQIP for its financial assistance to the program. The function was ended with vote of thanks along with light refreshment.</p> <p>In the subsequent sessions the resource persons explained about Simulation in power systems using RTOS. They handled theory and practical sessions which includes demonstration.</p>	<p>Power Flow And Sizing Electrical Power Flow During Abnormal Operation Transients Status Of The Electric Power System Dynamic Loads Behavior and How They Affect The Power System.</p>
Support Staff training		Technical staff	<p>Two weeks' short term training on "AC Electric Motors-Testing, Operation and maintenance" at ATI Mumbai from 18.12.17 to 29.12.17 conducted for the purpose of Operation/Control/Maintenance of AC Electric motors.</p> <p>The Staff Development Programme (SDP) was started with the Registration at 09:30AM on 18th Dec 2017, The Coordinators introduced the course at Advance Training Institute Government of India, Mumbai, Maharashtra in Session-I till 11.00AM.</p> <p>The SDP was sponsored by TEQIP with an amount of Rs 40,371/-. The training programme is attended by Foreman and two instructors.</p>	<ol style="list-style-type: none"> 1.Operation and control all types of 1Phase and 3phase AC Motors. 2.Operation of Control components: Push buttons, toggle switches, proximity switches (Inductive, capacitive, photo sensors). 3.Connection of 3Phase Induction Motor with Power supply using all control components in control circuits. 4.Connections and reading of measuring instruments connected to motors. 5.Testing of motor terminal windings, phase reverse connection by

using change over switch.

Management Capacity Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Management Capacity Building programmes at IIM		Faculty : 01	Dr.Jyothi P K was nominated to attend Faculty Development Program on “Advanced Pedagogy and Management Capacity Building Training for Engineering Faculty and Senior Administrators” at Gangtok, Sikkim during 21 st to 25 th June 2018 under TEQIP - III.	

Report from April 2018 to June 2019

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
1. IIT/ NIT training to students at IIT/NIT or in parent institute	SC:5 ST:1 OBC:35 GM:19 Male:32 Female:28	UG Students	<p>The overall development of students is the requirement to face the challenges at the global level. The employability and entrepreneurship of an individual depends on one’s own confidence, skills, communication and other capabilities of a person. Therefore, there is a strong need for training in the area of communication, skill development etc., in addition to the regular academic learning.</p> <p>In view of this, the Department is regularly organizing the ‘Personality Development Program’ for pre final year students for the past fifteen years in association with Swami Vivekananda Public Trust, Bengaluru.</p>	<input type="checkbox"/> Enhances the technical skills of the students <input type="checkbox"/> Helps in developing the overall personality development of an individual in the competitive and sustainable modern society <input type="checkbox"/> Improves mental stability

			<p>Personality Development Program – 2019 was conducted from 29th to 31st January 2019 in the department of Electrical and Electronics Engineering for VI semester Electrical and Electronics Engineering (60 Students), coordinated by Dr. Eranna and Dr.S Vasudevamurthy, Associate Professors. The program started with Inaugural session in the presence of coordinator for TEQIP III. After the introductory session, the lectures covered topics on Goal setting and accomplishment, positive mental attitude and facing interviews. The day's sessions were concluded with Yoga training. The second day sessions were focused on training students on public speaking, Success strategies, Memory and its kinds, Self confidence and Yoga training. On the third day students were trained on stress management, Time management, Motivation, Creativity and yoga training. Finally, the programme was concluded by valedictory session in the presence of Dr.Suguru Thippeswamy, Swami Vivekananda Public Trust, Dr.Jyoti P Koujalagi, Head of the department and Faculty and staff of Electrical and Electronics Engineering.</p>	of an individual
Faculty/Staff Development and motivation				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes

Short Term Training Programmes (STTP) in house			This Work shop was intended to enrich the knowledge on Intellectual Property Rights, need for IPR, procedure to apply for IPR and benefits of IPR. Objectives of training programme to create the awareness of IPR and Benefits of IPR among faculty and researchers in different fields and to strengthen research with more IPR. Different experts in this field gave the lecture, shared the experiences while applying for IPR. Also discussed various types of IPR, procedures to apply for IPR, also discussed procedures to apply for patent in other countries.	Faculty and researchers will be enriched the knowledge in the field of IPR and able to strengthen the research capability by getting more IPR
			A five days faculty development programme on “Behavior Remodelling and use of ICT tools for classroom delivery of teachers” was conducted by department of Electrical and Electronics Engineering between 19 th to 23 rd Feb 2019. To impart Soft Skill Development and ICT aptitude to a level where faculties will be benefitted in terms of the teaching style, personality improvement, classroom delivery etc.	1.Better personified teachers would evolve and a better classroom decorum would be initiated. 2.A better student teacher relationship can be envisaged. 3.Morer than results, pedagogy of comprehensive delivery methodologies would be initiated. 4.Learning of basic ICT tools for proficient delivery of the talks, efficient sharing of the class materials which boosts the interest of a student to attend the class.
Attending Conferences/ Seminars / Workshops		UG Faculty	The workshop was conducted by ESCI from 9th - 13th May 2019 and it focused on quality assurance in technical education. The rationale of the five-day workshop was two-fold: (i) to promote understanding of the salient quality assurance issues and concepts amongst the workshop participants and (ii) to provide delegates an	Workshop proposes quality of education in engineering and technology who are pursuing in India. The effective action required to improve quality of teaching

			<p>opportunity to participate in the initial stages of the development of a quality assurance toolkit that is relevant and adaptable to open education in different contexts within India. Such a participatory approach was deemed to be important as it would not only enrich the toolkit through sharing of ideas on quality assurance, it would also enhance ownership of the end product by the participants who are the end users of the toolkit. The program was attend by faculties all over India of various domain.</p>	and learning.
Support Staff training			<p>The Short Term Course (STC) Next Generation Wireless Networks was started with the Registration at 09:30AM on 16th July 2018, Dr C Rama Krishna and Dr. Rakesh kumar introduced the course in the presence of National Institute of Technical Teachers Training and Research (NITTTR) Electrical Engineering faculty to all the participants in session-I till 11.00AM, then in the session-II by Dr. Rakesh kumar Course coordinator took a session on Introduction to wireless communication where he highlighted. In the Session-III Mr. Saurabh Kaushal addressed the importance and need of Security Issues in WLAN and gave some practical examples.</p> <p>Day-2 (Tuesday 17/07/2018) Session-I and Session-II :2G and 3G Technologies– Dr. Er. S K Chopra where he focused on the issues which were generation 2G, 3G, 4G and 5G technologies. In the Session –III Dr. C Rama Krishna HOD CSE NITTR delivered lecture MANET Implementation in Network Simulator-2 NITTTR where we could get to known about the facilities available at NITTTR and current research work status at NITTTR.</p> <p>Day-3 (Wednesday 18/07/2018) Session-I and Session –II was all about Wireless Network Planning and Testing which was addressed by Mr Kaipl Bhutani he also gave</p>	<p>Able to know the knowledge of wireless network.</p> <p>Able to identify the faults and small repairs in the network.</p> <p>Gave an exposure and opportunity to work with electronic networks</p>

			<p>some real time application to check network speed using TRAI my speed. In the Session –III Dr Kanika Sharma delivered lecture WSN Issues and challenges with some real time examples.</p> <p>Day-4 (Thursday 19/07/2018) Session-I and Session-II was delivered fby Dr Sujata Pal from IIT Ropar Delay Tolerant networks in WSN. In the Session –III Dr Sandeep Singhai delivered lecture on WSN 802.15.4 standard Zigbee.</p> <p>Day-5 (Friday 20/07/2018) Session-I and Session-II was delivered by Dr SRN Reddy from IGDTUW New Delhi about IOT Implementations and challenges in real time applications example smart watch etc. Afternoon we had course feedback and valediction where we expressed the views and suggestions for improvement of the course and at last we received the certificate from our course coordinator.</p>	
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Mentoring/Twinning system

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Two way faculty, staff and student exchange programs for training and academic activities			<p>This is to bring to your kind information that I was nominated to visit Our Mentee Institution - Institute of Engineering & Technology, Dr RML Awadh University, Faziabad, UP during 24st to 27th Sep, 2018 under TEQIP - III. I am very much thankful to the Management & the Principal of Dr AIT, Bengaluru for giving me an opportunity to share the subject knowledge with the students and Faculty at the Twinning Institution.</p> <p style="text-align: center;">Myself and my 11 other colleagues from 4 other</p>	<p>1.Students of IET were benefited by the teaching from experienced teachers.</p> <p>2.Many doubts raised by the students about the subjects were resolved.</p> <p>3.Mutual interaction between the faculties of IET and Dr. AIT was well</p>

			<p>Mechanical, Electronics & Computer Science Departments reached Lucknow and were received by a team of fellow colleagues from the Mentee Institution. Following day we were welcomed by the Director, Dr Mishra at his chamber and later on were introduced to 2nd year students of the Department of Electrical & Electronics Engg by the Head of the Department Mr Sanjay Chauhan.</p> <p>I was allotted for the subject Electrical Measurements and Instrumentation and Topic of Instrument Transformers & Measuring meters, in the afternoons for the three days and the schedule / topics covered are as follows.</p> <p>Student's response was enthusiastic and attended by them throughout the class long periods and for whole duration. The classes were interactive and preparatory notes were also supplied. Mail IDs & phone numbers were shared and informed to be in contact and feel free to discuss any subject matters. At the end feedback session was arranged and we depart the students with warm regards.</p>	<p>established.</p> <p>4. Curriculum of IET and our institution were overviewed and exchanged for further reference and improvements.</p> <p>5. It was discussed to participate in BOS at least by one faculty member of other institute to improve the quality curriculum and hence the quality of education.</p>
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Management Capacity Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Management Capacity Building		Faculty	The programme started with a formal inauguration, introducing experts and the sessions at Hotel VW Canyon. The programme was attended by	1. Team building activities play a vital role in bringing different members to one

<p>programmes at IIM;</p>			<p>more than 40 participants from different parts of India.</p> <p>The first sessions on 26.03.19 was an Ice breaking & Inventorying of Expectations was taken up by the TEQIP coordinator Prof. Sanjeev Prashar- an awareness on important aspect of students –teacher’s interaction beyond subject matter also the Teacher styles of Interacting with students was explored.The second sessions was discussed by Programme Director MsRashmi Shukla on Vision, Mission and goals in academia was and it impact was continued by Prof . ShatayaDass in third session.The importance of positive interaction plays a critical factor indetermining student’s outcome. Student’s –Teacher’s social interaction is important factor in determining their schooling experience. The activity based session was carried out by Programme Director Prof.ArchanaParashar.</p> <p>Team building both outdoor and indoor activities were organized by Prof AnubhaDadhich</p> <p>. Removes the gap with participants of different departments and are able to interact with whom they are not quite familiar. It further opens the door of work associations. It is an important networking tool and hence today’s co-workers might be a better reference for tomorrow. Apart from developing their personal skill, it eliminates the disparities and shortcomings of each department.With the passage of time, each work or job might get monotonous or boring. People generally want to work in a company that offers a fun-filled and positive</p>	<p>team and establishing better relation among them. Apart from the personality development of the participants, it is even helpful for feel motivated and work in an energised way.</p> <p>2.Workplace Management can improve the organization was conducted Better workplace management means not only implementing smarter policies but also using the right technology that every workplace should use to streamline logistics and make everyone’s work life run more smoothly. A variety of different tools to bring best practices for workplace management to all levels of an organization. These tools and features allow all employee levels in a robust workplace management system to</p>
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			<p>work environment. Plus, they also recognise employees as an important part of their association. Engaging them in new activities and spending the quality time with them prevent them from getting bored and they learn new stuff with each activity. Some sort of mental relaxation should be provided so that they not feel stressful while working. Employees feel being valued.</p> <p>Procurement and laboratory management was discussed by Prof. Mohit Goswami with the best practices in Academic Institutions at IIM Raipur Campus. The participants were grouped to provide comprehensive project information and market intelligence to identify and mitigate financial risk and improve efficiency. Procurement Catalyst is a dynamic platform where the supplier data is combined with the extensive company and risk intelligence. It's a very powerful tool that helps to spot potential risk quickly and gives a more transparent view of existing, and potential, suppliers. It also provides a centralised location to store and manage procurement data. Later, in the evening IIM campus tour was arranged.</p> <p>The first two sessions on 30.03.19 were conducted by PSR Sarma on Implementation of GIAN and Stress management was focused on the psychological effects of stress on human body. Participants were engaged in different brain storming exercises and discussed personal & professional stress. Further, multiple stress management techniques were discussed with the participants. Third session was taken by Prof. Mohit Goswami on Relationship management at National/</p>	<p>participate, which helps spread the positive impact around for everyone to enjoy.</p>
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			International and R&D organizations. The session discussed on the purpose of academic collaboration and invited discussions on how individual and organizations can initiate the international collaborations. The last session was scheduled on project presentations by groups of 4-5 participants –their learning towards to programme directions and shared their learning on different projects like: Feedback system by the institution, ICT implementation, interpersonal skills etc.,	
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Report from July 2019 to June 2020

Improve Students Learning				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes

<p>IIT/ NIT training to students at IIT/NIT or in parent institute</p>	<p>SC:8 ST:3 OBC:28 GM:21 MALE:32 FEMALE:28</p>	<p>UG students</p>	<p>The overall development of students is the requirement to face the challenges at the global level. The employability and entrepreneurship of an individual depends on one's own confidence, skills, communication and other capabilities of a person. Therefore, there is a strong need for training in the area of communication, skill development etc., in addition to the regular academic learning.</p> <p>In view of this, the Department is regularly organizing the 'Personality Development Program' for pre final year students for the past fifteen years in association with Swami Vivekananda Public Trust, Bengaluru. Personality Development Program – 2019 was conducted from 29 th to 31 st January 2019 (Plz chk where this content is to be added) in the department of Electrical and Electronics Engineering for VI semester Electrical and Electronics Engineering (60 Students), coordinated by Dr. Eranna and Dr. S Vasudevamurthy, Associate Professors in the department. The program started with Inaugural session in the presence of coordinator for TEQIP III. After the introductory session, the lectures covered topics on Goal setting and accomplishment, positive mental attitude and facing interviews. The day's sessions were concluded with Yoga training. The second day sessions were focused on training students on public speaking, Success strategies, Memory and its kinds, Self confidence and Yoga training. On the third day students were trained on stress management, Time management, Motivation, Creativity and yoga training. Finally the programme was concluded by valedictory session in the presence of Dr.Suguru Thippeswamy, Swami Vivekananda Public Trust, Dr.Jyoti P Koujalagi, Head of the department and Faculty and staff of Electrical and Electronics Engineering.</p>	<p>Enhances the technical skills of the students.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Helps in developing the overall personality development of an individual in the competitive and sustainable modern society. <input type="checkbox"/> Improves mental stability of an individual.
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Any other	Two SC girl students	PG	The two PG students attended the conference at Vemana Institute of Technology, Bengaluru and Institute for Engineering Research and Publication (IFERP) and presented the paper titled “Simulation of ZVS Inverter with Space Vector Modulation using Simulink” and “Analysis of Power Transformation in SCIG Based Wind Turbine Using Matrix Converter” On 20 th June 2017. The registration fees of Rs 3000/- each is funded by TEQIP.	Completed M Tech with the journal paper and obtained good CGPA.
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Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Short Term Training Programmes (STTP) in house	Can provide details in a separate sheet (Faculty and staff)	Intelligent Algorithms and Applications		
		Intellectual Property Rights		
		Behavior Remodelling and use of ICT tools for classroom delivery of		

		teachers		
MOOCs and Digital Learning				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Certification fees for online courses (MOOC's)		Faculty	Harini Vaikund Rajesh LV taken the MOOCs course on "Introduction to Smart Grid" and obtained the certificate of completion.	The course gave the detailed knowledge of the grid function and compensating the grid for reactive power and hence reducing the burden on the power station.
			Pankaja H G, Arpitha Raju and Dhanyavathi.A completed the MOOCs course on " Stress Management".	The course helped the faculty to overcome the day to day stress. It made the environment of the working to be more pleasant .

			Dr Shankaralingappa and Dr H V Govinda Raju completed the course on “ Personality Development” under MOOCs.	The course helped to improve the personality in the working place and makes the individual more presentable and attractive in the society.
		Students	Siddaramesha R G, Sagar P V and Lokanath attended the course on “Entrepreneurship &IP Strategy” under MOOCs.	The course helped to gain the information regarding the establishment of independent firms which can give the opportunities to many aspirants.

Mentoring/Twinning system

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Two way faculty, staff and student exchange programs for training and academic		Faculty	Delivered invited talk on “SAR filling for NBA Accreditation” for the department of EEE at IET, Ayodhya on as a part of the twinning activity carried under TEQIP-III program. (Mention date)	Twinning activity to build capacity and performance improvement

activities				
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Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY




Outer ring road, Mallathahalli, Bengaluru 560056




Department of Electrical & Electronics Engineering




Department Activities under TEQIP-III (From April 2017 till date:)

1. Events organized by the department:

Sl. No.	Title of program	Date of program conduction	Beneficiaries	Number of beneficiaries	Mention if the program is: Pedagogy/ Subject Domain/ R&D/ Industry Training/ Management Development/ Others	Outcomes
1	Personality Development Programme	29 th - 31 st January 2019	UG Students	75	Management Development 	<p>1.Enhances the technical skills of the students.</p> <p>2.Helps in developing the overall personality development of an individual in the competitive and sustainable modern society.</p> <p>3.Improves mental stability of an individual.</p>

						
2	“Behavioural Remodeling and Use of ICT Tools for Classroom Delivery of Teachers	19 th - 23 rd Feb, 2019	Faculty	100	Subject Domain 	<p>1. Better personified teachers would evolve and a better classroom decorum would be initiated.</p> <p>2. A better student teacher relationship can be envisaged.</p> <p>3. More than results, pedagogy of comprehensive delivery methodologies would be initiated.</p> <p>4. Learning of basic ICT Tools for proficient delivery of the talks, efficient sharing of the class materials which boosts the interest of a student to attend the classes.</p>
3	Just Robotics – Think Sense Act	11 th – 16 th June, 2018	Students	75	Subject Domain 	

4	Renewable Energy	11 th – 16 th June, 2018	Students	65	<p>Subject Domain</p>  	<ol style="list-style-type: none"> 1.Enriched their knowledge with Renewable Energy sources. 2.Can generate Electrical Energy other than conventional sources. 3.Were trained to convert bio waste into electricity or bio fuel. 4.Were trained to physically how energy can be produced, such as cycling, hand wheels etc. 5.Were well acquainted about solar and wind energy systems. 6.Various energy systems such as geo thermal were also taught 7.They can become entrepreneur in the energy systems.
5	Real Time Simulators in Electrical Domain	22 nd November, 2017	Faculty & Students	75	<p>Subject Domain</p> 	

						
6	Switchgears and Applications	23 rd – 29 th Jan, 2019	Students	100	Finishing School  	<ol style="list-style-type: none"> 1.Enriched their knowledge in Electrical Switchgears. 2.Can control the gadgets without over loading them. 3.Can wire the electrical control panels. 4.Were trained to wire the single phase and three phase electrical circuits. 5.Were able to design starters for various electrical machines. 6.They can become entrepreneur in the field of switchgears.

2.Details of Industry visits:

Sl. No.	Title	Date of visit	Place of visit	Beneficiaries:	Number of beneficiaries	Outcomes
1	Industrial Visit	19-09-2019	ISRO	UG Students 	60	1.Practical Knowledge of communication is visualized by the students. 2.Students exposed to the working of satellite.



(Suggested to mention at least 3 points)



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

Outer ring road, Mallathahalli, Bengaluru 560056

Department of Industrial Engineering and Management

Report from April 2017 to June 2018

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Induction Training for 1 st yr. and lateral entry students	SC: 06 ST: 01 OBC: 26 GM: 18 MALE: 33 FEMALE: 18	Students-UG	<ul style="list-style-type: none"> • Students are given talks related to moral values and human values. • Induction to: rules and regulations of Autonomous, respective departments etc. 	<ul style="list-style-type: none"> • Students gained knowledge about human and moral values. • They learnt about how the college works w.r.t autonomous, test and examination rules, department etc.
Training of faculty mentors by induction coordinators already trained (Own faculty/Hired experts)	No. of SC, ST, OBC, GM, MALE, FEMALE	Faculty	<ul style="list-style-type: none"> • Academic and Administrative Audit (AAA) for Quality Enhancement at Higher Education Institutions (HEIs) • Induction Program 	<ul style="list-style-type: none"> • Gained knowledge about AAA and its documentation procedure. • Through the Induction program, faculties learnt about OBE system of education.

GATE Orientation and Preparation Classes	SC: 00 ST: 01 OBC: 00 GM: 22 MALE: 13 FEMALE: 10	Students-UG	for Faculty • Students took up classes for attending GATE examinations. Classes were taken by subject experts in college itself.	• Students gained knowledge about how to solve problems within stipulated time. • Students became examination ready.
GATE Registration Fees	SC: 00 ST: 01 OBC: 00 GM: 22 MALE: 13 FEMALE: 10	Students-UG	• Students were paid registration fee for taking up GATE coaching and examination.	• Final year students took GATE examination to get qualified for higher studies as well as working in reputed Public sectors.

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Short Term Training Programmes (STTP) in house	SC -02 OBC -01 Male -03	Technical Staffs	Staff Development Programme on “Developing Fluency in handling popular Academic Software tools” from 27-29 th September 2018	To improve software knowledge on academic software tools like MS office, Excel, etc.,
Registration fee and TA/DA for STTP in other reputed institutes	SC-01 Male-01	Faculty	FDP for “Improving Teaching, Learning and Research Competency” at Leh Ladak from 25-29 th June 2019	To enhance and improve the teaching learning and research competency which will help in writing research paper, thesis and

				article etc.
Attending Conferences/ Seminars / Workshops	SC (02) ST (01) Male (02) Female (01)	Dr.N Mohan Dr.Rajeshwari.P Rajesh K	International Conference at Cauvery Institute of Technology, Mandya on ETME from 27-28 December 2017	Presented a paper on TBC for aerospace application and the same is been published in the online journal: www.ijrame.com
	SC (01) Male (01)	Rajesh K	International Conference at NIT- Suratkal, on Polymer Composites, ICPMC From 15-16 December 2018	Presented paper on Tribological behavior on natural composites and its industrial applications.
	SC (01) Male (01)	Rajesh K	International Conference at GRIET on Materials Processing and Characterization, Hyderabad, 8 th March 2019	Presented paper on Tribological behavior on natural composites and its industrial applications.
	SC (01) Male (01)	Rajesh K	International Conference at NIT, Trichy on Materials and Manufacturing Methods, ICMM, from 05-07 July 2019	Presented paper on Tribological behavior on metal matrix composites and its industrial applications.

	SC (01) Male (01)	Dr.Mohan N	Conference on High Temperature Tribology at Ducom Instruments, HTTC on 03-04 Sepetember2018	To Understand the High temperature tribological behavior of Metals and nonmetals in different industrial sectors.
	GM(01)	Suprabha R	One week workshop on “Research Methodology” at VTU Centre for PG Studies, Muddenahalli, Chickaballapur 4 th to 9 th June, 2018	To enhance and improve the teaching learning and research competency which will help in writing research paper, thesis and article etc.,
	GM(01)	Suprabha R	International Conference on Materials Processing and Characterization, GRIET, Hyderabad. 12-13 March, 2016	Presented paper on Tribological behavior on natural composites and its industrial applications
5. Support Staff training	NIL	NIL	NIL	NIL
6. Counselling of faculty and staff, particularity for disadvantageous sections of the society	NIL	NIL	NIL	NIL
7. Qualification upgradation of	NIL	NIL	NIL	NIL

faculty and staff				
8. Faculty training on NASSCOM future skills	NIL	NIL	NIL	NIL
9. Faculty training on digital pedagogy	NIL	NIL	NIL	NIL
10. Motivational talks for faculty and staff for improving efficiency and belongingness	NIL	NIL	NIL	NIL
11. Faculty and staff training in industry (registration fees, TA/DA, accommodation etc.)	NIL	NIL	NIL	NIL

1.3.2.5 Research and development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes (Write it pointwise: Related to Publications, Patents or any other)
	(SC: ST: OBC: GM: MALE:	(Faculty-UG / Faculty-PG / Technical Staff/ Staff/Students- UG,PG,Ph.D)		

	FEMALE:)			
1. Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute	SC (02) ST (01) Male (02) Female (01)	Dr.N Mohan Dr.Rajeshwari.P Rajesh K	International Conference at Cauvery Institute of Technology, Mandya on ETME from 27-28 December 2017	Presented a paper on TBC for aerospace application and the same is been published in the online journal WWW.IJrame.COM
	SC (01) Male (01)	Rajesh K	International Conference at NIT- Suratkal, on Polymer Composites, ICPMC From 15-16 December 2018	Presented paper on Tribological behavior on natural composites and its industrial applications.
	SC (01) Male (01)	Rajesh K	International Conference at GRIET on Materials Processing and Characterization, Hyderabad, 8 th March 2019	Presented paper on Tribological behavior on natural composites and its industrial applications.
	SC (01) Male (01)	Rajesh K	International Conference at NIT, Trichy on Materials and Manufacturing	Presented paper on Tribological behavior on metal matrix composites and its industrial

			Methods, ICMM, from 05-07 July 2019	applications.
	SC (01) Male (01)	Dr.Mohan N	Conference on High Temperature Tribology at Ducom Instruments, HTTC on 03-04 Sepetember2018	To Understand the High temperature tribological behavior of Metals and nonmetals in different industrial sectors.
	GM(01)	Suprabha R	One week workshop on “Research Methodology” at VTU Centre for PG Studies, Muddenahalli, Chickaballapur 4 th to 9 th June, 2018	To enhance and improve the teaching learning and research competency which will help in writing research paper, thesis and article etc.,
	GM(01)	Suprabha R	International Conference on Materials Processing and Characterization, GRIET, Hyderabad. 12-13 March, 2016	Presented paper on Tribological behavior on natural composites and its industrial applications
	SC (02) ST (01) Male (02) Female (01)	Dr.N Mohan Dr.Rajeshwari.P Rajesh K	International Conference at Cauvery Institute of Technology, Mandya on ETME from 27-28	Presented a paper on TBC for aerospace application and the same is been published in the online journal

			December 2017	WWW.IJRAME.COM
	SC (01) Male (01)	Rajesh K	International Conference at NIT-Suratkal, on Polymer Composites, ICPMC From 15-16 December 2018	Presented paper on Tribological behavior on natural composites and its industrial applications.
	SC (01) Male (01)	Rajesh K	International Conference at GRIET on Materials Processing and Characterization, Hyderabad, 8 th March 2019	Presented paper on Tribological behavior on natural composites and its industrial applications.
	SC (01) Male (01)	Rajesh K	International Conference at NIT, Trichy on Materials and Manufacturing Methods, ICMM, from 05-07 July 2019	Presented paper on Tribological behavior on metal matrix composites and its industrial applications.
	SC (01) Male (01)	Dr.Mohan N	Conference on High Temperature Tribology at Ducom Instruments,	To Understand the High temperature tribological behavior of Metals and

			HTTC on 03-04 September 2018	nonmetals in different industrial sectors.
2. Spares and consumables for UG/ PG student research project	NiL	NiL	NiL	NiL
3. Seed Money for R & D for faculty research projects	NiL	NiL	NiL	NiL
4. Publication in peer reviewed journals having citation & impact factor and Scopus index	NiL	NiL	NiL	NiL
5. Fees and facilitation charges for patent filing for faculty and students	NiL	NiL	NiL	NiL
6. Workshops on writing collaborative research proposals	NiL	NiL	NiL	NiL
7. In-house product development by students	NiL	NiL	NiL	NiL
8. Expenses for using infrastructure facilities (rent) in other organizations	NiL	NiL	NiL	NiL
9. Expense on	NiL	NiL	NiL	NiL

testing/characterization of samples of R&D projects undertaken by faculty/students				
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1.3.2.6 MOOCs and Digital Learning

Activities	Total No. of participants (SC: ST: OBC: GM: MALE: FEMALE:)	Beneficiaries (Faculty-UG / Faculty-PG / Technical Staff/ Staff/Students- UG,PG,Ph.D)	Brief Report	Detail Outcomes (Write it pointwise)
Certification fees for online courses (MOOC's)	NIL	NIL	NIL	NIL

1.3.2.7 Mentoring/Twinning system

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes (Write it pointwise)

		(Faculty-UG / Faculty-PG / Technical Staff/ Staff/Students- UG,PG,Ph.D)		
1. Two way faculty, staff and student exchange programs for training and academic activities	NIL	NIL	NIL	NIL
2. Joint R & D; Arranging seminars, academic meetings and conferences for students and faculty	NIL	NIL	NIL	NIL
3. Organizing Industry partnerships for joint R&D, internship and placement activities	NIL	NIL	NIL	NIL
4. Learning forums for improving governance practices, institutional management and reforms	NIL	NIL	NIL	NIL
5. Joint Advisory or consultancy services; any other activities as	NIL	NIL	NIL	NIL

deemed mutually appropriate				
6. Joint placements	NIL	NIL	NIL	NIL

1.3.2.8 Reforms, Governance

Activities	Total No. of participants	Beneficiaries (Faculty-UG / Faculty-PG / Technical Staff/ Staff/Students- UG,PG,Ph.D)	Brief Report	Detail Outcomes (Write it pointwise)
1. Organizing workshops for faculty so as to implement AICTE model curriculum	-NIL-	-NIL-	-NIL-	-NIL-
2. Meeting expenditure for various authorities like ICC, BoS, Academic Council/ Senate, BoG	16	Faculty-UG	BOS Meeting of the department is conducted once every academic year with Head of the Dept. as Chairman along with	The scheme and syllabus are updated as per norms of the University and Autonomous regulations. Several suggestions on changes in syllabus is

			<p>One VTU Nominee, 5 External Members, 2 Alumni Representatives and 7 Internal Faculty Members. Expenditure Incurred:</p> <ol style="list-style-type: none"> 1. 2021-22: Rs. 28,500 2. 2020-21: Rs. 30,580 3. 2019-20: Rs. 29,893 4. 2018-19: Rs. 37,571 	<p>discussed such as:</p> <ul style="list-style-type: none"> • Addition of New Subjects, • Offering latest relevance Electives, • Suggestions on different topics to be included or removed or modified. • Various Inter-departmental Electives to be offered is also discussed.
3. Accreditation & UGC Autonomy fees, Workshop on OBE/SAR filing, mock visits through experts - TA/DA, honorarium etc.	-NIL-	-NIL-	-NIL-	-NIL-
4. 360 degree Student Feedback & Faculty Appraisal (designing fresh system or operating cost of existing students feedback system)	155	Students-UG	<p>Feedback is collected from the students using in-house developed feedback collection software developed by the Faculty of Computer Science. During the online classes, the feedback is</p>	<p>The Head of the Department will discuss the consolidated feedback with the faculty during the Faculty Appraisal and the necessary corrections and suggestions is communicated.</p>

			collected using Google Forms. The data is then consolidated by the Feedback co-ordinator of the department. It is then approved by the Head of the Department and sent to Dean's (Academic) Office.	
5. Workshops / meetings / inviting experts for implementation of AICTE examination policy for measuring outcomes	-NIL-	-NIL-	-NIL-	-NIL-

1.3.2.9 Management Capacity Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Management Capacity Building programmes at IIM;	NiL	NiL	NiL	NiL

NPIU workshops, etc.	NiL	NiL	NiL	NiL
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1.3.2.10 Hiring Consultancy Services

1.3.2.11 Industry-Institute Interaction

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Expenditure on TA/DA registration fees for Internships	NiL	NiL	NiL	NiL
Inviting Industry expert for lectures	NiL	NiL	NiL	NiL
TA/DA of students and faculty for Industry Visits	45	45	Students visited the Marconalli Dam factory at Mandya.the students were given introduction about the	Students had an exposure to the work culture at Marconalli Dam, at Mandya.students had an

			Marconalli Dam at Mandya, Sarvada Distellaries Pvt. Ltd, Udupi, Varahi Power Plant and Automobile Corporation, Goa.the students were taken to individual depts Such as: Sarvada Distellaries Pvt. Ltd Varahi Power Plant and Automobile Corporation.	exposure to newer state of the art equipments, the students were given demonstration on: Sarvada Distellaries Pvt. Ltd, Varahi Power Plant and Automobile Corporation explained in detal about Production Units Processes.
Expenditure on submission of collaborative research	NiL	NiL	NiL	NiL
Participation of industry experts in curriculum development through ICC	NiL	NiL	NiL	NiL
TA/DA and honorarium for industry experts assisting in delivery of curriculum	NiL	NiL	NiL	NiL



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

Outer ring road, Mallathahalli, Bengaluru- 560056

Department of Civil Engineering

Report from April 2017 to June 2018

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Induction	SC: 19	Students	All the first-year civil students have	<ul style="list-style-type: none">• Students understood

Training for 1 st yr and lateral entry students	ST: 09 OBC: 20 GM: 67 Male: 60 Female: 55		participated in induction training programme organized by the Institution. Students are exposed to various expert lectures on human values, professional gestures, application of science and technology, character molding, engineering education, awareness on social responsibilities. The orientation programme was also conducted in civil engineering department to introduce infrastructure and faculty, laboratories and departmental facilities.	human values <ul style="list-style-type: none"> • Understood importance of engineering education • Exposed to social responsibilities
Training of faculty mentors by induction coordinators already trained	No. of SC, ST, OBC, GM, MALE, FEMALE		Along with faculty mentors, some expert resource persons from the industry hired for the conduction of induction programme.	<ul style="list-style-type: none"> • Students understood the industrial setup • Found opportunities in industries
GATE Orientation and Preparation Classes	SC: 19 ST: 09 OBC: 20 GM: 67 Male: 60 Female: 55	UG Students	Academic experts were called on paid basis to coach the students for GATE. Rs.1500/- (GM) and Rs.750 (SC/ST) per student was paid from TEQIP-III.	<ul style="list-style-type: none"> • Students benefited from the expert's coaching • Confident to face the GATE examination
6.GATE Registration Fees (Mention only for final		1500/- per students is reimbursed for the all students who appeared for GATE	3 rd year and final year students who have registered for GATE examination have been provided with refund of the fees if they are qualified.	<ul style="list-style-type: none"> • Financially backward students were benefitted

year students)				
Remedial Classes	SC: 19 ST: 09 OBC: 20 Male: 29 Female:19	UG Students	Remedial classes were conducted for SC/ST students	<ul style="list-style-type: none"> • Students were benefitted by the remedial classes • It motivated the students to get good marks
Institutional memberships for professional societies Eg., IEEE, ACM, IETE, CSI, Automotive Engineering, ISTE, IE(I), ASCE, ASME, for student chapters		ISTE student chapter started in 1996	Various students activities are organized under ISTE student chapter	<ul style="list-style-type: none"> • Students learnt the importance of technical education
Sponsorship of 20% on academic activities in Tech Fest		National inter-college Techno exhibition was organized every year on Dr.B.R.Ambedkar Jayanthi on April 13 th and 14 th .	Projects of social relevance and engineering innovation were given importance and one lakh rupees prized for a best project. 50,000/- Second prize; 25,000/3 rd prize	<ul style="list-style-type: none"> • Public are benefitted with the civil engineering innovation • Students are motivated
Graduate Employability				

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Awareness drive/ workshops about the idea of 'Innovation' & 'Start-up	135	SC: 19 ST: 09 OBC: 20 GM: 67 Male: 60 Female: 55	Er.H.R.Girish, From Girish Ventures delivered a lecture in Opportunities in Civil Engineering field May 2017	<ul style="list-style-type: none"> Students were exposed to entrepreneurship in Civil Engineering field
Faculty/Staff Development and motivation				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Short Term Training Programs (STTP) in house	100	Students and staff of Civil Engg department are benefited. SC:14 ST:5 GM:71 MALE: 69 FEMALE: 31	1.Technical Challenges for Civil Engineering Graduates on 12-3-18 2.Industrial experts have delivered training lectures to students and staff	<ul style="list-style-type: none"> Under Graduates were exposed to challenges in Civil Engineering field Faculty knowledge was enhanced
Attended Conferences/ Seminars / Workshops	100	Students and faculty of Civil Engg department are benefited. SC:14 ST:5	1. Workshop: "Recent Developments in Highway Engineering" : 14-3-18 2. Finishing School : 12-4-18: Students had participated to make it successful event	Faculty and staff are exposed to STTP and benefited and trained to teach UG practical classes

		GM:71 MALE 69 FEMALE: 31 (Previous row data and this row is same. Please check)		
Support Staff training	Can provide)		Various staff were participated in Training across the country	Staff were trained by the training to enhance the practical knowledge of UG students during instructions
Qualification upgradation of faculty and staff	Dr.R. Madhusudhan	Obtained Ph.D degree from Bangalore University in 2018	Faculty obtained their PhD degree and enrolled for PhD	<ul style="list-style-type: none"> Strengthened NBA requirements Quality Improvement

1.3.2.5 Research and development

Activities	Total No. of participants	Beneficiaries				Brief Report	Detail Outcomes
Publication in peer reviewed journals having citation & impact factor and Scopus index	FACULTY : 3 NOS.	An Experimental Investigation of Post Tensioned Beams with BFRP Fabric	International Journal of Engineering Science and Computing (IJESC)	Vol . 7, Issue 8	14681-1478	Faculty and students have published papers in reputed international journal out of the research carried out through UG and PG students project/dissertation work	<ul style="list-style-type: none"> Faculty and students learnt Enhanced Technical English writing Exposed to research domain in their subject of interest.

		An Experimental Investigation on Post Tensioned Beams with BFRP Fabrications	International Journal of Informative & Futuristic Research, IJIFR	Vol. 4, Issue 12	8543-8551	ISSN: 2347-1697.	Aug. 2017	
		Comparative Study on Post Tensioned PSC T Beam Strengthened By BFRP and GFRP Under Flexure	International Journal of Engineering Science and Computing, IJESC	Vol. 7, Issue 9	15069	ISSN: 2250-1371.	Sep. 2017	

Reforms, Governance

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Meeting expenditure for various authorities like ICC, BoS,	20,000/- Total number of participants are 28, out of	Faculty-PG / Technical Staff/ Staff/Students-	22 faculty and 6 external experts from industry and academic institution involved in detailed discussion of curriculum design and content to suit for present day requirements in industry and suggested	<ul style="list-style-type: none"> Modified syllabus According to the requirement of industry Distribution of

Academic Council/ Senate, BoG	which 6 were external experts from industry and academic institution	UG,PG,Ph.D)	various measures for modification of syllabus. The discussions were recorded as proceedings of BOS meeting	teaching hours and credits of the courses <ul style="list-style-type: none"> Finalization of Inter Departmental Electives
Accreditation & UGC Autonomy fees, Workshop on OBE/SAR filing, mock visits through experts - TA/DA, honorarium etc.	2.8 Lakhs	Faculty-PG / Technical Staff/ Staff/Students-UG,PG,Ph.D	Self-assessment report was submitted to NBA during June 2017. Dr Radhakrishna from RVCE and Dr R. V Ranganath, Principal, BMSIT visited dept of civil engg and carried out mock evaluation for NBA	<ul style="list-style-type: none"> Confident to receive NBA peer review committee
360 degree Student Feedback & Faculty Appraisal (designing fresh system or operating cost of existing students	Undertaken	Faculty-PG / Technical Staff/ Staff/Students-UG,PG,Ph.D	Feedback forms were generated along with questionnaires to assess the course deliver in class rooms and students feedback obtained for all the semesters for all the subjects	<ul style="list-style-type: none"> The feedback data applied in faculty appraisal Resulted in enrichment in teaching quality

feedback system)				
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Report from July 2018 to June 2019

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Induction Training for 1 st yr and lateral entry students	SC: 14 ST: 08 OBC: 37 GM: 38 Male: 62 Female: 38	Students-UG	All the first-year civil students have participated in induction training programme organized by the Institution. Students are exposed to various expert lectures on human values, professional gestures, application of science and technology, character molding, engineering education, awareness on social responsibilities. The orientation programme was also conducted in civil engineering department to introduce infrastructure and faculty, laboratories and departmental facilities.	<ul style="list-style-type: none"> • Students understood human values • Understood importance of engineering education • Exposed to social responsibilities
Training of faculty mentors by induction coordinators already trained	No. of SC, ST, OBC, GM, MALE, FEMALE	Students-UG	Along with faculty mentors, some expert resource persons from the industry hired for the conduction of induction programme.	<ul style="list-style-type: none"> • Students understood the industrial setup • Found opportunities in industries
GATE Orientation and Preparation Classes	No. of SC, ST, OBC, GM, MALE, FEMALE	Students-UG	Academic experts were called on paid basis to coach the students for GATE	<ul style="list-style-type: none"> • Students benefited from the expert's coaching • Confident to face the GATE examination

GATE Registration Fees		Students-UG	3 rd year and final year students who have registered for GATE examination have been provided with refund of the fees if they are qualified	<ul style="list-style-type: none"> • Financially backward students were benefitted
Remedial Classes		Students-UG	Remedial classes were conducted for SC/ST students	<ul style="list-style-type: none"> • Students were benefitted by the remedial classes • It motivated the students to get good marks
Institutional memberships for professional		ISTE student chapter started in 1996	Various students activities are organized under ISTE student chapter	<ul style="list-style-type: none"> • Students learnt the importance of technical education
Sponsorship of 20% on academic activities in Tech Fest		National inter-college Techno exhibition was organized every year on Dr. B.R.Ambedkar Jayanthi	Projects of social relevance and engineering innovation were given importance and one lakh rupees prized for a best project. 50,000/- Second prize; 25,000/3 rd prize	<ul style="list-style-type: none"> • Public are benefitted with the civil engineering innovation • Students are motivated

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Registration fee and TA/DA for STTP in other reputed institutes	Please refer Appendix-1			

Attending Conferences/ Seminars / Workshops	18 faculty	UG Faculty (18) Details enclosed in Appendix 1 and 2
5. Support Staff training	Details enclosed in Appendix-2	

Research and development (Details in appendix 1 and 2)

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute	SC: 14 ST: 08 OBC: 37 GM: 38 Male: 62 Female: 38	Faculty-UG, PG Technical Staff Students-UG, PG, Ph.D	UG/PG/Ph. D students attended Conference, Workshops, and Seminars within & outside the campus.	<ul style="list-style-type: none"> • Exposure to Subject domain • Enhanced learning
Publication in peer reviewed journals having citation & impact factor and Scopus index	SC: 05 ST: 0 OBC: 0 GM: 03 MALE: 02 FEMALE:03	Faculty-UG / Faculty-PG / Students-UG, PG,Ph.D	Faculty and students have published papers reputed international journal out of the research carried out through UG and PG students project/dissertation work	<ul style="list-style-type: none"> • Faculty and students learnt Enhanced Technical English writing • Exposed to research domain in their subject of interest

Reforms, Governance

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
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Meeting expenditure for various authorities like ICC, BoS, Academic Council/ Senate, BoG	20 (Internal & External)	Faculty-UG / Faculty-PG	The experts for various specialization from Industries & Academic institutions, were the BOS members discussed the addition & deletion of the contents in curriculum for UG & PG & finalized the syllabus for 2017-18.	<ul style="list-style-type: none"> • Contents for Industrial relevance. Curriculum compatibility for the need of the industry.
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Industry-Institute Interaction

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Inviting Industry expert for lectures	160	UG STUDENTS/FACULTY	Industrial experts are invited to deliver expert lecture	<ul style="list-style-type: none"> • Exposure to Industry need
TA/DA of students and faculty for Industry Visits	140	UG STUDENTS/FACULTY	Students visited project sites and learnt the subject	<ul style="list-style-type: none"> • Exposure to field issues in Civil Engineering

APPENDIX-1: Department of Civil Engineering

Training category	Training mode	Title of training *	From date	To date	Faculty Name	Training venue/institute with location *
Pedagogy	FDP	Advanced Pedagogy and Management capacity Building Training for Engineering Faculty and Senior Administrators	21-06-2018	25-06-2018	Dr. M N Hegde	Gangtok, Sikkim.
Management development	FDP	Professional Development Training Programme for Senior Academic cum Administrative Executives.	10-09 2018	14-09- 2018	Dr. M N Hegde	IIM Shillong,
Pedagogy	FDP	Solar, Wind and Non Conventional Source of Energy .	11-03-2019	15-03-2019	Dr. H R Srinivasa	NITTTR Chandigarah
Pedagogy	FDP	Solar, Wind and Non Conventional Source of Energy .	11-03-2019	15-03-2019	T C Chandrashekaraiah	NITTTR Chandigarah
Pedagogy	FDP	Solar, Wind and Non Conventional Source of Energy .	11-03-2019	15-03-2019	Dr. M R Suresh	NITTTR Chandigarah
Pedagogy	FDP	Solar, Wind and Non Conventional Source of Energy .	11-03-2019	15-03-2019	Dr. K V Manjunatha	NITTTR Chandigarah

Pedagogy	FDP	Solar, Wind and Non Conventional Source of Energy .	11-03-2019	15-03-2019	Dr. Chandrasekar	NITTTR Chandigarah
Subject domain	FDP	Application of total station and DGPS for projects with field practices	23-07-2018	27-07-2018	S B Ankesh	Engineering staff college of India at Hyderabad
Subject domain	FDP	Application of total station and DGPS for projects with field practices	24-07-2018	28-07-2018	M K Darshan	Engineering staff college of India at Hyderabad
Subject domain	FDP	Application of total station and DGPS for projects with field practices	25-07-2018	29-07-2018	Poornima K Birangi	Engineering staff college of India at Hyderabad
Subject domain	FDP	Application of CAD in Engineering .	25-02-2019	to 1-3-2019	Spoorthy M	NITTTR Chandigarah
Subject domain	FDP	Application of CAD in Engineering .	25-02-2019	to 1-3-2019	Meri Bhagya Jyothi	NITTTR Chandigarah
Subject domain	FDP	Application of CAD in Engineering .	25-02-2019	to 1-3-2019	Shreyas K	NITTTR Chandigarah
Subject domain	FDP	Application of CAD in Engineering .	25-02-2019	to 1-3-2019	Sharath B	NITTTR Chandigarah
Subject domain	FDP	Application of CAD in Engineering	25-02-2019	to 1-3-2019	Naveenkumar M	NITTTR Chandigarah

APPENDIX-2: Department of Civil Engineering

Sl. No.	Title	Date of event	Place of event attended	Faculty Name	Mention if the type of	Outcomes
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					event is	
1	Testing Methods of Civil Engineering Materials and RMC Batching Plant,	22-26 July 2019	Engineering staff college of India,Gachibowli, Hyderabad.	Basavaraj Jakkappanavar	SDP	This training help us to develop new methodology in conduction of testing of materials
2	Management capacity building training	23-05-2018 to 30-05-2018	Institute of Engineers Shimla, Himachal Pradesh	Basavaraj Jakkappanavar	SDP	This training help us to develop new methodology in conduction of testing of Civil engineering materials
3	Application of Total Station and DGPS for Projects with field practices	23-27 July 2018	Engineering staff college of India,Gachibowli, Hyderabad.	C Ashok	SDP	Updated the knowledge of the state of the art surveying instruments
4	Application of Total Station and DGPS for Projects with field practices	23-27 July 2018	Engineering staff college of India,Gachibowli, Hyderabad.	C Chethan	SDP	Updated the knowledge of the state of the art surveying instruments
5	Application of Total Station and DGPS for Projects with field practices	23-27 July 2018	Engineering staff college of India,Gachibowli, Hyderabad.	C Chandana	SDP	Updated the knowledge of the state of the art surveying instruments
6	Application of Total Station and DGPS for Projects with field practices	23-27 July 2018	Engineering staff college of India,Gachibowli, Hyderabad.	Y N Lohith	SDP	Updated the knowledge of the state of the art surveying instruments
7	Testing of Civil Engineering Materials	24-27 July 2018	Engineering staff college of India,Gachibowli, Hyderabad.	S M Krishnappa	SDP	To develop new methodology in conduction of Civil Engg testing of materials,
8	Testing of Civil Engineering Materials	24-27 July 2018	Engineering staff college of India,Gachibowli, Hyderabad.	K Chandroji Rao	SDP	To develop new methodology in conduction of Civil Engg testing of materials,
9	Testing of Civil Engineering Materials	24-27 July 2018	Engineering staff college of India,Gachibowli, Hyderabad.	Basavaraju	SDP	To develop new methodology in conduction of Civil Engg testing of materials,
10	Testing of Civil Engineering Materials	24-27 July 2018	Engineering staff college of India,Gachibowli, Hyderabad.	K L Rajashekaraiiah	SDP	To develop new methodology in conduction of Civil Engg testing of materials,

Report from July 2019 to June 2020

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Induction Training for 1 st yr and lateral entry students	No. of SC, ST, OBC, GM, MALE, FEMALE	SC: 16 ST: 11 OBC: 08 GM: 64 Male: 69 Female: 30	All the first year civil students have participated in induction training programme organized by the Institution. Students are exposed to various expert lectures on human values, professional gestures, application of science and technology, character molding, engineering education, awareness on social responsibilities. The orientation programme was also conducted in civil engineering department to introduce infrastructure and faculty, laboratories and departmental facilities.	<ul style="list-style-type: none"> • Students understood human values • Understood importance of engineering education • Exposed to social responsibilities
Training of faculty mentors by induction	22 faculty were benefitted	No. of SC, ST, OBC, GM, MALE, FEMALE	Along with faculty mentors, some expert resource persons from the industry hired for the conduction of induction	<ul style="list-style-type: none"> • Students understood the industrial setup • Found opportunities in industries

coordinators already trained			programme.	
GATE Orientation and Preparation Classes	83 students appeared for GATE	SC: 10 ST: 04 OBC: 01 GM: 12 Male:56 Female:27	Academic experts were called from UVCE on paid basis to coach the students for GATE	<ul style="list-style-type: none"> • Students benefited from the expert's coaching • Confident to face the GATE examination
GATE Registration Fees (Mention only for final year students)	83	Rs.1500 per students was reimbursed	3 rd year and final year students who have registered for GATE examination have been provided with refund of the fees if they are qualified.	<ul style="list-style-type: none"> • Financially backward students were benefitted
Remedial Classes	14	SC: 10 ST: 04	Remedial classes were conducted for SC/ST students. The learning outcomes are monitored by conducting remedial classes.	<ul style="list-style-type: none"> • Students were benefitted by the remedial classes • It motivated the students to get good marks
Institutional memberships for professional societies		ISTE student chapter started in 1996	Various students' activities, Lectures from industrial experts are organized under ISTE student chapter. Er.H.R.Girish, From Girish Ventures delivered a lecture in entrepreneurship and challenges in Civil Engineering field	<ul style="list-style-type: none"> • Students learnt the importance of technical education
Sponsorship of 20% on academic activities in Tech		National inter-college Techno exhibition was	Projects of social relevance and engineering innovation were given importance and one lakh rupees prized	<ul style="list-style-type: none"> • Public are benefitted with the civil engineering innovation • Students are motivated

Fest		organized every year on Dr.B.R.Ambedkar Jayanthi	for a best project. 50,000/- Second prize; 25,000/-3 rd prize	
Exposure visits of social backward and girls students to reputed organizations/any other place	130	Chiklihole reservoir, Harangi dam in October 2019		<ul style="list-style-type: none"> Demonstration of various equipments related to hydroelectric power generation

1.3.2.3 Graduate Employability

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
E-summits, conferences, seminars and other Entrepreneurship fests (organizing as well as attending)	22 faculty and TOTAL 150 Participants (55 registered)	2 days National Conference on Recent Trends and Innovations in Civil Engineering. 47 papers were received and presented	2 days National Conference on Recent Trends and Innovations in Civil Engineering was organized in the dept of civil engg on 7 th and 8 th of june 2019, the Convener and coordinators were: 1.Dr.B.ShivakumaraSwamy 2.Dr.S.D Venkatarajamohan, Prof, Civil Engg 3. Dr S G Ramachandraiah, Prof, Civil Engg 4. Sowmya M, Asst Prof, Civil Engg	<ul style="list-style-type: none"> Participants were exposed to Recent innovations in Civil Engineering. Research Potential from the Key note addresses in each theme and research papers has been identified.

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Registration fee and TA/DA for STTP in other reputed institutes	2 Faculty	Fees 27000/- each	Testing Methods of Civil Engineering Materials and RMC Batching Plant, during 22-07-2019 to 26-07-2019	<ul style="list-style-type: none"> This training help us to develop new methodology in conduction of testing of materials
Attending Conferences/ Seminars / Workshops	120	XII National Cyber Defence Summit 19 in October 2019	Illustration of cyber related activites in India & abroad	<ul style="list-style-type: none"> Students exposed to Cyber related activities
Support Staff training	1	Testing Methods of Civil Engineering Materials and RMC Batching Plant	Engineering staff college of India,Gachibowli, Hyderabad. (5days from 22-26 July 2019)	<ul style="list-style-type: none"> This training help us to develop new methodology in conduction of testing of materials,

Research and development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute		Faculty-UG / Faculty-PG / Technical Staff/ Staff/Students- UG,PG,Ph.D	UG/PG/Ph. D students attended Conference, Workshops, Seminars within & outside the campus.	

1.3.2.6 MOOCs and Digital Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Certification fees for online courses (MOOC's)	SC:6 OBC:1 GM: 1 Male:3 Female:5	8 faculty	Faculty who are qualified are reimbursed with the MOOC/Swayam NPTEL exam Fees	<ul style="list-style-type: none"> Faculty are enriched with the knowledge in their subject domain

Reforms, Governance

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Meeting expenditure for various authorities like ICC, BoS, Academic Council/ Senate, BoG	20 (Internal & External)	Faculty-UG , PG	The experts for various specialization from Industries & Academic institutions, were the BOS members discussed the addition & deletion of the contents in curriculum for UG & PG & finalized the syllabus for 2019-2020	<ul style="list-style-type: none"> Modified syllabus According to the requirement of industry Distribution of teaching hours and credits of the courses <p>Finalization of Inter Departmental Electives</p>
360 degree Student Feedback & Faculty Appraisal (designing fresh system or	Undertaken	Faculty-PG / Technical Staff/ Staff/Students-UG,PG,Ph.D)	Feedback forms were generated along with questionnaires to assess the course deliver in class rooms and students feedback obtained for all the semesters for all the subjects	<ul style="list-style-type: none"> The feedback data applied in faculty appraisal <p>Resulted in enrichment in teaching quality</p>

operating cost of existing students feedback system)				
Industry-Institute Interaction				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Inviting Industry expert for lectures	450	Faculty and students are benefitted	Celebrated engineers day on sep 15 th 2019. Er Ramesh had delivered the lecture related to civil engg structures-Bridges	<ul style="list-style-type: none"> All the faculty and students were benefitted by the lecture

Report from July 2020 to Aug. 2021

1.3.2.1 Improve Students Learning				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes (Write it pointwise)
Induction Training for 1 st yr and lateral entry students	132	132 students benefitted through online induction program	All the first-year civil students have participated in induction training program organized by the Institution. Students are exposed to various expert lectures on human values, professional gestures, application of science and technology, character molding, engineering education, awareness on social	<ul style="list-style-type: none"> Students understood human values Understood importance of engineering education Exposed to social responsibilities

			responsibilities. The orientation program was also conducted in civil engineering department to introduce infrastructure and faculty, laboratories and departmental facilities.	
Training of faculty mentors by induction coordinators already trained	No. of SC, ST, OBC, GM, MALE, FEMALE		Along with faculty mentors, some expert resource persons from the industry hired for the conduction of induction programme.	<ul style="list-style-type: none"> • Students understood the industrial setup • Found opportunities in industries
GATE Orientation and Preparation Classes	128	SC: 17 ST: 15 OBC: 63 GM: 33 Male: 87 Female: 31	Academic experts were called from UVCE on paid basis to coach the students for GATE	<ul style="list-style-type: none"> • Students benefited from the expert's coaching • Confident to face the GATE examination
GATE Registration Fees (Mention only for final year students)	94	SC: 17 ST: 09 OBC: 54 GM: 14 Male: 74 Female: 20	3 rd year and final year students who have registered for GATE examination have been provided with refund of the fees if they are qualified.	<ul style="list-style-type: none"> • Financially backward students were benefitted
Sponsorship of 20% on academic activities in Tech Fest	No. of SC, ST, OBC, GM, MALE, FEMALE	National inter-college Techno exhibition was organized every year on Dr.B.R.Ambedkar	Projects of social relevance and engineering innovation were given importance and one lakh rupees prized for a best project. 50,000/- Second prize	<ul style="list-style-type: none"> • Public are benefitted with the civil engineering innovation • Students are motivated

		Jayanthi on April 13 th and April 14 th	25,000/3 rd prize	
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Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Attending Conferences/ Seminars / Workshops	Can provide details in a separate sheet (Faculty)	06 webinars conducted		

Reforms, Governance

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Meeting expenditure for various authorities like ICC, BoS, Academic Council/ Senate, BoG	Rs.10,000/-	Faculty-UG / Faculty-PG	The experts for various specialization from Industries & Academic institutions, were the BOS members discussed the addition & deletion of the contents in curriculum for UG & PG & finalized the syllabus for 2020-21.	<ul style="list-style-type: none"> • Contents for Industrial relevance. • Curriculum compatibility for the need of the industry.
Accreditation & UGC Autonomy	NIL	NIL		

fees, Workshop on OBE/SAR filing, mock visits through experts - TA/DA, honorarium etc.	(Accreditation is in force till 2023)			
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Overall Outcomes of TEQIP-III for the department of CV related to:

1. Students (UG, PG and RESEARCH SCHOLARS)

- Good financial assistance
- Motivation, Confidence, Freedom of choice of research
- Participation in Tech fest/Seminar/Finishing School/Workshop
- Enhancing the Knowledge of the students in practically through Industrial visits.
- Conduction of Induction Program
- Utilization of fund in technical/industrial visits and GATE EXAM preparation
- Project/dissertation/Internship funding to PG students

2. Faculty Members

- Convenience in attending workshop/conference and training program outside the institute
- Helpful in organizing the technical/industrial visits
- Participation in MOOC & Digital Learning Courses
- Attractive to organize the FDP and conferences
- Transparency in fund transfer to keynote speaker
- Achieved industry institution interaction

3. Technical Staff

- Learning, Able to give better instructions after attending short term training program
- Exposure to outside world
- Better understanding with faculty
- Enhancement in knowledge handling equipment etc.

4. Staff

- Able to handle tools after attending short term training program
- Exposure to outside world
- Better understanding with Foreman , instructions and faculty

Suggestions for further improvement:

- More focus may be given training on new software and Hands on training to use new/advanced equipments
- Procurement of licensed software & latest equipment for laboratories
- Set up of Centralized research facilities
- Organizing Interdisciplinary and international level conferences

Department of Medical Electronics

Report from April 2017 to June 2018

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
IIT/ NIT training to students at IIT/NIT or in parent institute Dr. AIT	SC:04 ST:01 GM:29 MALE:12 FEMALE:22 SC:03 ST:02	Students-UG	1. Python Programming: 09/10/2017 & 10/10/2017 This is a versatile tool and researchers can mould this for their specific field of research. Python is rigorously being used by the research community 2. One day Talk: Patient Safety and Calibration techniques - on	Programming knowledge using python- To make the students industry ready, as Python is popularly used in the industry currently

	GM:25 MALE:09 FEMALE:21	Students-UG	<p>17/11/2017</p> <p>Patient Safety is a health care discipline that emerged with the evolving complexity in health care systems and the resulting rise of patient harm in health care facilities. It aims to prevent and reduce risks, errors and harm that occur to patients during provision of health care.</p> <p>Patient multi parameter monitor is a key equipment of the ICU and its result always used for the treatment of the patient. So its parameters like ECG, NIBP, IBP, Temp & SPO2 are most mandatory requirement of periodical calibration.</p> <p>3. One day Talk: 23/03/2018</p> <p>Multimodal Imaging in Medical Applications: Multimodal imaging combines the different advantages of multiple imaging methods</p>	<p>Industry oriented and alumni programme arranged to inspire our studnets -To make the exposure to patient safety and calibration of medical devices</p> <p>Industry oriented and alumni programme arranged to inspire our students</p>
Student Visits to IIT & R&D organizations	SC:03 ST:02 GM:16 MALE:09 FEMALE:12	Students-UG	<p>Visit to VIT Vellore on 07.11.2017:</p> <p>Fluorescence Spectroscopy and its Applications in Bio Sensing.</p> <p>The broad area of training is in the insight into the R&D Laboratory where field biosensors, Bio MEMS specialized.</p>	State of instrumentation for fluorescence spectroscopy

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Short Term Training Programmes (STTP) in house	SC:01 ST:00 GM:05 MALE:02 FEMALE:04	Faculty-UG	<p>1. Python Programming: on 09/10/2017 & 10/10/2017</p> <p>This is a versatile tool and researchers can mould this for their specific field of research. Python is rigorously being used by the research community</p>	<ul style="list-style-type: none"> • Faculty would have learnt Python Programming • They will have the confidence to develop and guide students projects using Python programming
	SC:01 ST:00 GM:05 MALE:02 FEMALE:04	Faculty-UG	<p>2. One day Talk: Patient Safety and Calibration techniques - on 17/11/2017</p> <p>Patient Safety is a health care discipline that emerged with the evolving complexity in health care systems and the resulting rise of patient harm in health care facilities. It aims to prevent and reduce risks, errors and harm that occur to patients during provision of health care. Patient multi parameter monitor is a key equipment of the ICU and its result always used for the treatment of the patient. So its parameters like ECG, NIBP, IBP, Temp & SPO2 are most mandatory requirement of periodical calibration.</p>	<p>Industry oriented and alumni programme arranged -To enhance knowledge in Biomedical Instrumentation patient safety aspects and calibration of medical devices</p>
	SC:01 ST:00 GM:05 MALE:02	Faculty-UG		Industry oriented and alumni

	FEMALE:04		3. Multimodal Imaging in Medical Applications: held on 23.03.2018 Industry oriented programme	programme arranged -To enhance knowledge and awareness on latest developments in medical Imaging Systems
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Research and development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Fees and facilitation charges for patent filing for faculty and students	GM:02 MALE:01 FEMALE:01	Faculty-UG Dr. Shanti K J Professor & Head Students-UG Shivaraj D	Patent: New design application for "Vein Detect": Vein visualization (also known as vein illumination) uses Near-infrared (NIR) imaging for detecting veins. This proven technology enables accurate visualization of the veins under the skin. The detector an invisible infrared and a visible red (Rs. 25000/-).	Design patent granted on and clinical validation completed.

MOOCs and Digital Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Certification fees for online courses (MOOC's)	GM:01 FEMALE:01	Bhargavi Hegde	An Introduction to Programming Through C++ (RS. 1000)	Professional Career Oriented Course

Report from July 2018 to June 2019

Improve Students Learning

Improve Students Learning				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes

1. IIT/ NIT training to students at IIT/NIT or in parent institute	SC:04 ST:00 GM:28 SC:02 ST:00 GM:15 MALE:08 FEMALE:09 GM:41 SC:06 ST:02 MALE:19 FEMALE:30	Students-UG	1. Introduction to IOT and Health Care Applications Held on 25/10/2018 2. One day technical talk on Patient Safety and calibration of Medical Equipments On 17/11/2018: Patient Safety is a health care discipline that emerged with the evolving complexity in health care systems and the resulting rise of patient harm in health care facilities. 3. Bio Medical Equipments	Participants got exposure to IOT applications Participants got exposure to the state of art calibration equipment and procedure Learning about the handling of high end biomedical equipments, detailed specification of each device and the different manufacturing industries in the field
GATE Registration Fees	GM:04 FEMALE:04	04	Registration fee paid Rs. 3000/	None Qualified
Student Visits to IIT & R&D organizations	SC:01 ST:00 GM:24 MALE:08 FEMALE:17	Students & Faculty	BGS Global Institute of Medical Sciences, Bangalore 14/01/2019 S-VYASA (Swami Vivekananda Yoga Anusandana Samsthana)"- 11/2/2019	Domain Knowledge in medical science as well health care devices SVYASA - Exposure to : State of art equipments for capturing EEG signals, analyzing soft wares, therapeutic approach to paraplegic patients using

	<p>SC:01 ST:00 GM:09 MALE:04 FEMALE:07</p> <p>SC:03 ST:00 GM:42 MALE:17 FEMALE:28</p> <p>SC:01 ST:00 GM:25 MALE:10 FEMALE:16</p>		<p>Sree Chitra Tirunal Insitute for Medical Science (SCTIMST)” Trivandrum, an Institute of Nattional Importance under Govt. of India 30/4/2019 RS. 99300/</p> <p>Dr. BR Ambedkar medical College Bangalore 16/5/2019 Rs. 10722</p>	<p>sophisticated biomedical equipments</p> <p>Exposure to design and development of: prosthetic organs indigenou, heart valves, catheters, blood bags etc.,</p> <p>Anatomy & Physiology subjects from the clinical perspective</p>
<p>Institutional memberships for professional societiesEg., IEEE, ACM, IETE, CSI, Automotive Engineering, ISTE, IE(I), ASCE,</p>		BMESI	RS. 10500/ Life time membership	Establishing Professional body at the department

ASME, for student chapters				
Graduate Employability				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
4.Remedial coaching for first to final year students in Communication Skills, quantative ability,logical reasoning as observed in AMCAT employability test	Individual reports are mailed by AMCAT to students	Held at Institute Level By TEQIP Office		
Awareness of job potential by arranging alumni talks	SC:07 ST:00 GM:33	Students-UG	One day technical talk on Personality Development held on 24/01/2019	Job awareness to students

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Short Term Training Programmes (STTP) in house	SC:03 ST:02 GM:25 MALE:25 FEMALE:05	Faculty - UG	<p>1. Developing Fluency in Handling Popular Academic Software Tools for Technical Staff 27/ 09/2018 to 29/9/2019</p> <p>2. One day technical talk on Patient Safety and calibration of Medical Equipments:</p> <p>Patient Safety is a health care discipline that emerged with the evolving complexity in health care systems and the resulting rise of patient harm in health care facilities. It aims to prevent and reduce risks, errors and harm that occur to patients during provision of health care. Patient multipara monitor is a key equipment of the ICU and its reult always used for the treatment of the patient. So its paramters like ECG, NIBP, IBP, Temp & SPO2 are most mandatory requirement of periodical calibration.</p>	<p>Programming skills for non teaching staff on commonly used soft wares in laboratories</p> <p>Faculty got exposure to the state of art calibration equipment and procedure</p>
	GM:04 SC:01	Fcaulty &	3. Bio Medical Equipments 25/2/2019 to 27/2/2019- Workshop conducted by Harvey	Learning about the the handling of high end biomedical equipments,

	ST:00 MALE:02 FEMALE:03	Students UG	Bio medicals	detailed specification of each device and the different manufacturing industries in the field
Registration fee and TA/DA for STTP in other reputed institutes	SC:01 GM:01	Foreman and Instructor	CHNM (Computer Hardware and Network Maintenance)” at ATI- EPI Dehradun	Exposure to Computer Networking & hardware maintenance
Attending Conferences/ Seminars / Workshops	GM:01	Faculty	Title of the conference paper Design of Pneumaogram for chronic Obstructive Pulmonary Disease Diagnosis (ICSPCOMSD-2019)” organized by MRECW Engineering College, Secunderbad, India	Publication in Scopus indexed journal
Faculty and staff training in industry (registration fees, TA/DA, accommodation etc.)	GM:01 SC01	Faculty	Kalam Institute of Technology, Department of Biotechnology at Vishakapatnam from 1/3/2019 to 2/3/2019	Domain Knowledge in therapeutic instruments and exposure to the upcoming Medical Tech. Part

Research and Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Fees and facilitation charges for patent filing for faculty and students	GM:01	Dr. K. J. Shanthi Prof.& Head	To patent the process and the design of a “Dental Gadget”	Patent Published Design of new Gadget assisting dentists

Management Capacity Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Management Capacity Building programmes at IIM;	1	Dr. Shanthi KJ	Professional Development Training 26 th to 30 th March 2019 at IIM Trichy Rs. 8763/	Developed Managerial Skills

Industry-Institute Interaction

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Inviting Industry expert for lectures	40	Faculty & students	Medical Ethics Committee- 30/11/2019	Part of the curriculum managed by an expert
TA/DA of students and faculty for Industry Visits	26	Faculty & students	Industrial Visit to SkanRay Technologies, Bangalore 24/11/2018	Exposure to design and development of C ARM X ray Machine, vital parameters monitoring systems, automated drug delivery system, etc.

Report from July 2019-June 2020

Graduate Employability

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Specialized industry based training programmes by industry	Number of Student participants: 42 SC:03 ST:01 GM:38 MALE:14 FEMALE:28	Students-UG	<p>TI-On Campus Industrial Training Programme on Advanced Embedded System Design and IOT Applications-3 weeks- 15th July to 03rd August 2019</p> <p>Advanced Practical Training on Technology provides Expert level experience in Embedded system development. Course module covers wide range of Equipments like, Imaging, Critical care, Diagnostics, Lab etc;. This will help the candidate to obtain knowledge in wide range of products. Advanced training on Applications, this will be suitable for both Beginners and professionals who seeks knowledge in all dimensions of core Electronics Technology.</p>	Capability to do projects using ARM Processor, Understanding & implementation of fundamentals of IOT and Readiness to industry

Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
1. Short Term Training Programmes (STTP) in house	Faculty participants: 07 SC:02 ST:00 GM:05 MALE:02 FEMALE:05	Faculty-UG	TI-On Campus Industrial Training Programme on Advanced Embedded System Design and IOT Applications- 3 weeks- 15th July to 03rd August 2019. Advanced Practical Training on Technology provides Expert level experience in Embedded system development. Course module covers wide range of Equipments like, Imaging, Critical care, Diagnostics, Lab etc;. This will help the candidate to obtain knowledge in wide range of products. Advanced training on Applications, this will be suitable for both Beginners and professionals who seeks knowledge in all dimensions of core Electronics Technology.	Capability to do projects using ARM Processor, Understanding & implementation
Faculty and staff training in industry (registration fees, TA/DA, accommodation etc.)		Dr.K.J Shanthi GM:01	Testing and Calibration of Medical Devices AMTZ Campus, Vishakapatnam 31/07/2019	Calibrating medical equipments

Industry-Institute Interaction				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
TA/DA of students and faculty for Industry Visits			Sree Chitra Tirunal Institute for Medical Science (SCTIMST) Trivendrum, an Institute of National Importance under Govt. of India	
TA/DA and honorarium for industry experts assisting in delivery of curriculum		Students	Talk on Medical Ethics Committee 31/11/2019- Expert from Bosch, Bangalore	Awareness about the procedure in industry for product certification & validation

Report from July 2020 - Aug.2021

Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Training of faculty mentors by induction coordinators already trained (Own faculty/Hired experts)	GM:01 FEMALE	Dr. Nayana R Shenoy	Attended online training on Induction Training Programme	Mentoring students Understanding individual strength and weakness
GATE Orientation and Preparation Classes	SC:01 MALE:01 Female: 02	At department level online coaching was held for GATE 2021		One student secured 126 th Rank in GATE2021



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Department of Medical Electronics

Department Activities under TEQIP-III (From April 2017 till date:)

1. Events organized by the department:

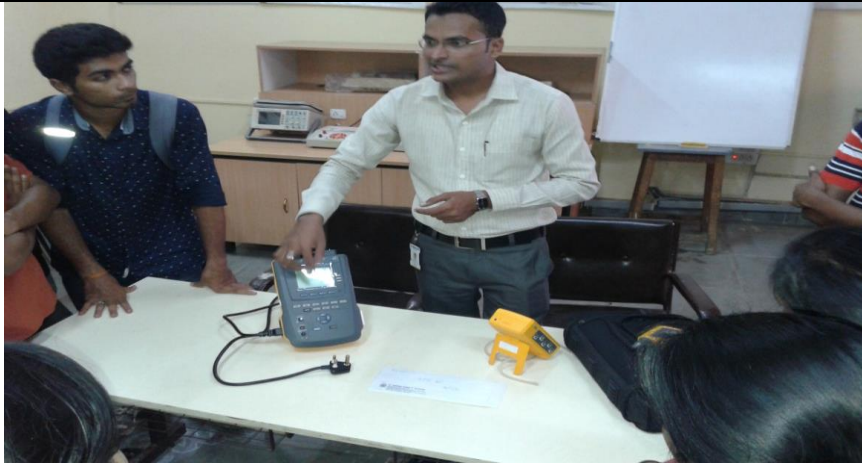
Sl. No.	Title of program	Date of program conduction	Beneficiaries	Number of beneficiaries	Mention if the program is: Pedagogy/ Subject Domain/ R&D/ Industry Training/ Management Development/ Others	Outcomes
1	Python Programming	09/10/2017 & 10/10/2017	Students-UG Faculty-UG	34 06	Subject Domain & Industry Training: This is a versatile tool and researchers can mould this for their specific field of research. Python is rigorously being used by the research community (By Crimson technologies, Hyderabad)	Programming knowledge using Python- To make the students industry ready, as Python is popularly used

in the industry currently.



Python Programming on 9th-10th Oct 2017, Crimson technologies

2	One day Talk: Patient Safety and Calibration techniques	18/11/2017	Students-UG Faculty-UG	30 06	Subject Domain & Industry Training: Patient Safety is a health care discipline that emerged with the evolving complexity in health care systems and the resulting rise of patient harm in health care facilities. It aims to prevent and reduce risks, errors and harm that occur to patients during provision of health care. Patient multi parameter monitor is a key equipment of the ICU and its result always used for the treatment of the patient.	Industry oriented and alumni programme arranged to inspire our students -To make the exposure to patient safety and calibration of medical devices
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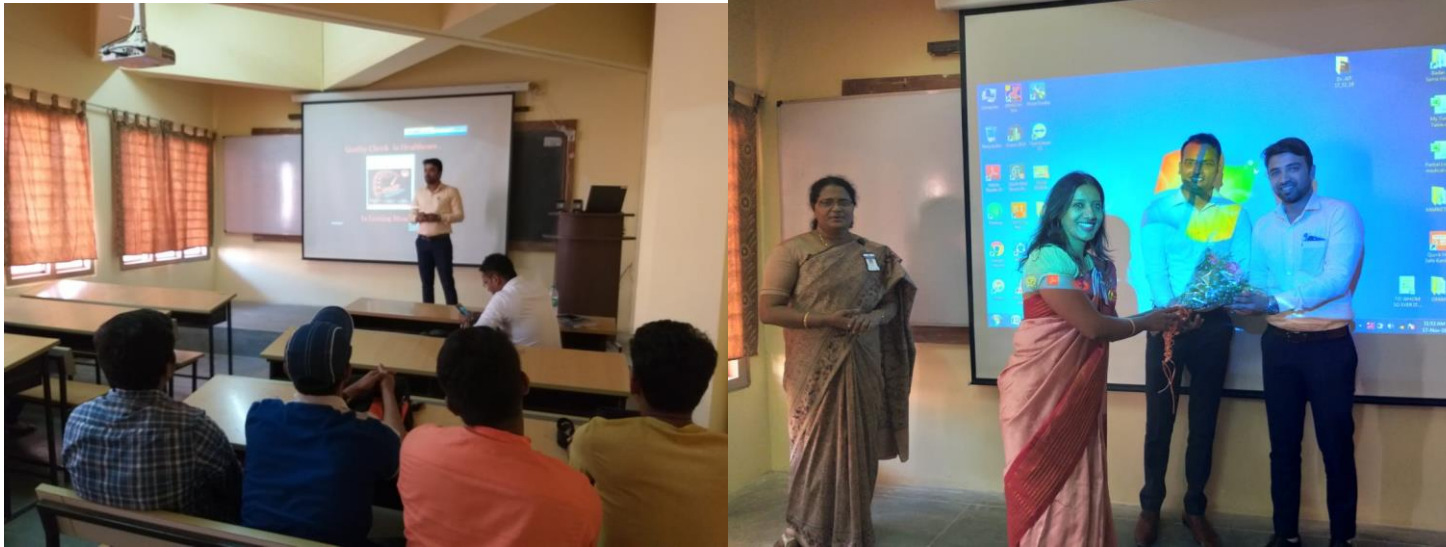
					So its parameters like ECG, NIBP, IBP, Temp & SPO2 are most mandatory requirement of periodical calibration. (By Transcal India pvt.ltd.)	
						
Patient Safety and Calibration of Medical equipments, Transcal India pvt.ltd. Bangalore on 18-11-2017						
3	One day Talk: Multimodal Imaging in Medical Applications	23/03/2018	Students-UG Faculty-UG	30 06	Subject Domain& Industry Training: Multimodal imaging combines the different advantages of multiple imaging methods	Industry oriented and alumni programme arranged to inspire our students



One day Talk: Multimodal Imaging in Medical Applications on 23/03/2018

4.	Introduction to IOT and Health Care Applications	25/10/2018	Students-UG	32	Subject Domain & Industry Training:	Participants got exposure to IOT applications
5.	One day technical talk on Patient Safety and calibration of Medical Equipments	17/11/2018	Students-UG Faculty-UG	30 06	Subject Domain & Industry Training: Patient Safety is a health care discipline that emerged with the evolving complexity in health care systems and the resulting rise of patient harm in health care facilities. It aims to prevent and reduce risks, errors and harm that occur to patients during provision of health care. Patient multi parameter monitor is a key equipment of the ICU and its result always used for the treatment of the patient. So its	Participants got exposure to the state of art calibration equipment and procedure

parameters like ECG, NIBP, IBP, Temp & SPO2 are most mandatory requirement of periodical calibration.



Technical talk on Patient Safety and calibration of Medical Equipments on 17/11/2018

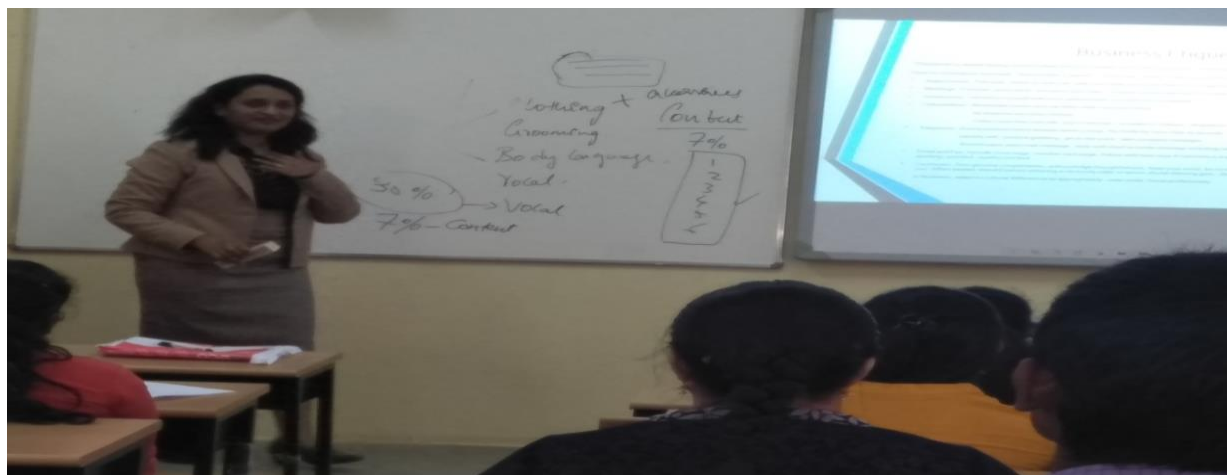
6.	Bio Medical Technology	25th to 27th Feb 2019	Students-UG Faculty-UG	49 06	Subject Domain & Industry Training	Learning about the handling of high end biomedical equipments, detailed specification of each device and the different manufacturing
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industries in the field



Biomedical Technology Workshop 25th to 27th Feb 2019

7	Personality Development	24/01/2019	Students-UG	40	Others: Personality Development	Job awareness to students
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One day talk on Personality Development held on 24/01/2019

8	Developing Fluency in Handling Popular Academic Software Tools for Technical Staff	27/09/2018 to 29/09/2018	Staff - UG	26	Subject Domain & Industry Training:	Programming skills for non teaching staff on commonly used software in laboratories
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Developing Fluency in Handling Popular Academic Software Tools for Technical Staff

9	Physiology and Anatomy	15 th & 16 th of May 2019	Students-UG	32	Subject Domain: Dr. B R Ambedkar Medical College & Hospital – Bangalore The sessions were handled by the respective Heads of the department	To understand and explain the structural functional anatomy and physiology of human body
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Lecture sessions arranged at Dr. B. R. Ambedkar Medical College, Bangalore on 15th & 16th of May 2019

10	TI-On Campus Industrial Training Programme on Advanced Embedded System Design and IOT Applications	3 weeks- 15th July to 03rd August 2019	Students-UG Faculty-UG	42 07	<p>Industry Training: Advanced Practical Training on Technology provides Expert level experience in Embedded system development. Course module covers wide range of Equipments like, Imaging, Critical care, Diagnostics, Lab etc;. This will help the candidate to obtain knowledge in wide range of products. Advanced training on Applications, this will be suitable for both Beginners and professionals who seeks knowledge in all dimensions of core Electronics Technology.</p>	Capability to do projects using ARM Processor, Understanding & implementation of fundamentals of IOT and Readiness to industry
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Three weeks programme: TI-On Campus Industrial Training Programme on Advanced Embedded System Design and IOT Applications

11	Training of faculty mentors by induction		Faculty-UG Dr. Nayana R Shenoy	01	Pedagogy : Attended online training on Induction Training Programme	Mentoring students Understanding individual strength and weakness
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Details of Industry visits:

Sl. No.	Title	Date of visit (From and To date)	Place of visit	Beneficiaries:	Number of beneficiaries	Outcomes
1	Fluorescence Spectroscopy and its Applications in Bio Sensing	07.11.2017	Visit to VIT Vellore, Tamilnadu	Students-UG Faculty-UG	21 04	State of instrumentation for fluorescence spectroscopy. The broad area of training is in the insight into the R&D Laboratory where field biosensors, Bio MEMS specialized.





Visit to Vellore Institute of Technology on 08th -9th Nov 2017, Vellore, Tamilnadu

2	Design and development of C ARM X ray Machine	24/11/2018	Industrial Visit to SkanRay Technologies Mysuru	Students-UG Faculty-UG	21 04	Exposure to design and development of C ARM X ray Machine, vital parameters monitoring systems, automated drug delivery system, etc.,
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Industry Visit SKANRAY Technologies Pvt Ltd , Mysuru 24th Nov 2018, Mysuru

3	Medical Science	14th January 2019 to 25th January, 2019	BGS Global Institute of Medical Sciences, Bangalore	Students-UG	11	Domain Knowledge in medical science as well health care devices
4	Exposure to State of equipments for EEG analysis	11/02/2019	S-VYASA (Swami Vivekananda Yoga Anusandana Samsthana)" SVYASA	Students-UG Faculty-UG	30 04	SVYASA -Exposure to : State of art equipments for capturing EEG signals, analyzing soft wares, therapeutic approach to paraplegic patients using sophisticated biomedical equipments



Visit to Swami Vivekananda Yoga Anusandana Samsthana (SVYASA), Jigani, Bangalore

5	Design and development of: prosthetic organs indigenous, heart valves	30/04/2019 to 02/05/2019	Sree Chitra Tirunal Institute for Medical Science (SCTIMST) Trivandrum, an Institute of National Importance under Govt. of India	Students-UG Faculty-UG	21 05	As per syllabus subjects they have learned, here they are supposed to mapping it into practical applications
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Visit to R&D Centre- an Institute of National Importance under Govt. of India Sree Chitra Tirunal Insitute for Medical Science (SCTIMST) Trivandrum

Overall Outcomes of TEQIP-III for the ML department related to:

Students:

- Attending Seminars/workshops/ Talks: Provide the students immense opportunity to expand their domain knowledge from the industry & research perspective
- Exposure to the outside world through the external resource person apart from the class room teaching
- Kindle interest in developing and solving problems through the hands on experience gained in the workshop
- Industry visits helped them to realize the potential of the programme they are pursuing and opportunities available
- Personality development, behavioural changes through interactions with the invited experts
- Improved lab/smart class room facilities and upgraded faculty gives a better learning environment
- Develop event organizing ability, which helps them to develop leadership quality

Faculty Members:

- Attending various seminars/conferences/Talks/FDP is necessary to upgrade the knowledge constantly to improve the curriculum contents and improve domain knowledge
- Networking and outreach
- Improved digital facility through laptops/tablets provided
- Financial assistance provided for TA/DA/ Registration fee in attending conferences etc. is a motivational factor to do research
- Develop event organizing & coordinating ability

Technical Staff

- Technical up gradation through workshop/SDP etc.
- Better up keeping of the labs and awareness about different equipments their usage and handling
- Exposure to the outside world by attending technical events outside
- Develop event organizing ability

Staff (Helpers)

- Improved computer literacy

Suggestions for further improvement:

- Brain storming sessions to be organized by the Institute to identify activities related to all items as per 1.3.2. So that the departments focus on all activities and a follow up on that.

Department of Computer science and Engineering

Report from July 2018 to June 2019

Improve Students Learning				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
GATE Registration Fees (Mention only for final year students)	42	Students-UG	Awareness were given about the GATE Examination. Students have registered in the and attended GATE 2020 examination in CSE discipline	Examination Attended and got different all India ranks
Career Counselling for Students	SC:203 ST:57 OBC: GM:319 MALE: FEMALE:	Final year UG students and pre final year	Dare to Dream Your Own Company	The workshop provides the participants information about the various possible career paths they can choose after graduation and necessary preparations required. Resource person gave details of jobs available in various domains

				provided an insight about opportunities available
Faculty/Staff Development and motivation				
Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
IIT training to faculty at IIT or in parent institute	SC:01	Faculty	learnt the design and Architecture of IIT,Delhi's Cloud called Baadal which is developed especially for Research and Development purpose. Also learnt different Cloud Simulators	Helped Students to develop cloud Applications using CloudSim simulator.
Attended Conferences/ Seminars / Workshops	GM:01 SC:01	Faculty	Gained insight on Research Methodies	Different methodologies and techniques used in research work.
	SC:02	Faculty	Better understanding every detail of Data Structures and how algorithms are implemented in Python	Learn, implement, and use different Data Structures

	SC:04 GM:04	Faculty	Gained insight on Bigdata Analytics & IOT	Discuss different methodologies and techniques used in Bigdata Analytics & IOT and how data can analysed in various IOT applications.
Support Staff training	SC:01 GM:01	Technical Staff	Attended FDP titled “Next Generation Wireless Networks” at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh from 16th July to 21st July 2018.	Shared Domain Knowledge with final year students.
	SC:01	Technical Staff	CHNM (Computer Hardware and Network Maintenance)” At Advanced Training Institute for Electronics and Process Instrumentation, Government of INDIA (ATI-EPI)	Gain an awareness in many Academic software tools.

Research and development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Publication in peer reviewed journals having citation & impact	SC:01	Ph.D	Paper presentation	International Conference on Electrical, Electronics, Communication, Computer

factor and Scopus index				Technologies and Optimization Techniques (ICEECCOT 2018)
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Industry-Institute Interaction

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
TA/DA of students and faculty for Industry Visits	100	Students	Successfully completed TEQIP-III/NPIU Sponsored Industrial Visit to Tata Consultancy Services, Goa, Hassan, Mapsua on 22 – 25 March, 2019 (Three Days) for 121 students of final year computer science and engineering along with three faculty coordinators.	This industrial visit helped the student community to enhance their knowledge about current software industries which will help in their future endeavour.

Report from July 2019 to June 2020

Report from July 2020 to June 2021

Overall Outcomes of TEQIP-III for the department related to:

Students (UG, PG and RESEARCH SCHOLARS)

- Paper published by Research scholar
- Improved Industry interaction through Industrial visits.
- Subject domain update through Seminars
- Hands on training through Workshops
- Students domain knowledge improved and Students employability improved

Faculty Members

- Subject domain updated through FDP/STTP/Seminar.
- Hands on training through Workshops
- Published Research Papers in reputed National & International Journals.
- Increased Motivation
- Faculty got certified by NPTEL and IITs/IISc.
- Inculcate mode of self-learning.

Technical Staff

- Improved Hands-on training in laboratories.
- Technology Upgradation.
- Increased Motivation.
- Improved equipment maintenance and servicing in laboratories.
- Increased Domain Knowledge.
- Improved financial management in procurement.

Staff

- Improved Skills in office.
- Increased Motivation.

- Improved students-staff relation.
- Improved file management.
- Improved administrative skills.
- Improved in overall performance.

Suggestions for further improvement:

- Increased facility for better Online mode teaching.
- Incubation Centre to be established.
- Consultancy to be started.



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

Outer ring road, Mallathahalli, Bengaluru 560056

Department of MECHANICAL ENGINEERING

Report from April 2017 to June 2018

1.3.2.1 Improve Students Learning

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Induction Training for 1 st yr and lateral entry students	No. of SC, ST, OBC, GM, MALE, FEMALE	1 st year and lateral entry UG students	<ol style="list-style-type: none"> 1. Induction program was conducted covering all the topics insisted by the VTU. 2. The college's introduction was explained in detail through presentations made by the Principal, Dean(Academic)- gave a vivid explanation on the Credit system, IDE, Subject choice, academic dos and don'ts to make the students comfortable with the academics. 3. Dean (Exams)- gave a clear description of what CIEs and SEEs make them understand the Autonomous exam system. 	<p>The students were also given points to ponder over on through the presentations made by senior faculty of the institution. The list is thus:</p> <ol style="list-style-type: none"> i. Benefits of the memberships of Professional

			<p>4. Apart from these students were familiarized with all UG and PG departments, Library, Yoga- Importance of Health, Sports & Games-Importance, Cultural activities and the Startup and Entrepreneur Cell.</p> <p>5. The contribution of the all the chosen professors and faculty of all UG and PG departments of the institution was praise worthy and commendable.</p> <p>6. Students were also acquainted with the whole college virtually through the videos presented to them on the various blocks that housed all the departments.</p> <p>7. A language proficiency test was conducted to test their English Knowledge and many scored well.</p> <p>8. Student's talent was also exhibited online with their sketches, arts like dance, singing etc. to recognize the in-born talent.</p>	<p>Societies</p> <p>ii. Language Proficiency in UG Education</p> <p>iii. Creative practices- in UG Education</p> <p>iv. Professional Ethics</p> <p>v. Outcome Based Education</p> <p>vi. On Human Values & Professional Ethics</p> <p>vii. Importance of Computer Programming in Technical Education</p>
3.Training of faculty mentors by induction coordinators already trained (Own faculty/Hired experts)	No. of SC, ST, OBC, GM, MALE, FEMALE	Our own Faculty were trained	<p>1. Amenities, stake holders, academic & administrative bodies and in total the organization structure was presented for the knowledge of the students.</p> <p>2. By speaking about the vastness of the institution, the dedication of 94 doctor holders to teaching & research and 92 others pursuing doctorate degree was referred to.</p> <p>3. Every student was advised that they must aspire to have</p>	<p>9. They must have graduate attributes like;</p> <p>i. Knowledge Base,</p> <p>ii. Problem Analysis,</p> <p>iii. Investigation</p>

			<p>knowledge skills, attitude & wisdom to be a good graduate and a human being.</p> <p>4. A student must achieve success in life by having studies as first priority and set SMART (Specific, Measurable, Achievable, Relevant & Timely) goals.</p> <p>5. They must adopt time management, participate in classroom & college activities, be attentive to what is taught, study in group, be committed to studies, avoid distractions, never do comparison with others and always learn from one's own mistakes</p> <p>6. Problems in life can be simple, complicated, complex and even chaotic, so students were reminded of the importance of Human values as a part of education.</p> <p>7. A very detailed explanation of the academic rules and regulations of the institution and the various courses offered at the institution were given.</p> <p>8. The prideful introductions of the whole exam team who work for the success of the autonomous section with the need of CIE & SEE were explained with clarity.</p>	<p>Ability,</p> <p>iv. Design,</p> <p>v. Usage of Engineering Tools,</p> <p>vi. Communication Skills,</p> <p>vii. Individual & Team Work,</p> <p>viii. Professionalism,</p> <p>ix. Impact on Society & Environment,</p> <p>x. Ethics & Equity,</p> <p>xi. Economics,</p> <p>xii. Project Management,</p> <p>xiii. Lifelong Learning.</p>
GATE Orientation and Preparation Classes	No. of SC, ST, OBC, GM, MALE, FEMALE	Trained by in-house faculties to 6 th sem students	<p>1. We enable dynamic material studies for our students, providing new digital learning and help maintain strategic points.</p> <p>2. We make them understand the algorithms to employ to the aptitude.</p> <p>3. We make them understand the techniques to monitor problems, areas of interest.</p> <p>4. We develop communication methods and systems that overcome and tackle problems.</p>	<p>AbhishekPurusmurthy-2021 qualified</p> <p>Pratyush Anand-2020 qualified</p> <p>Rameez ahmed 2019 qualified</p> <p>Satvik Sundresh M S 2019 qualified</p> <p>Mehul daftari -2018</p>

			5. We develop tools and training to prepare first responders and others to recognize enter new situations.	qualified Nikshep B G-2018 qualified
Career Counselling for Students	No. of SC, ST, OBC, GM, MALE, FEMALE		1. We enable subcritical experimentation and dynamic material studies for our national laboratory partners, providing new diagnostic and test systems to ensure the safety and security of our nuclear stockpile and help maintain our nation's strategic deterrent. 2. We develop sensors, diagnostics, and algorithms to assess the global threat of proliferation of nuclear weapons and special nuclear materials. 3. We develop new detection systems and techniques to monitor ports, borders, and other areas of interest for radiation signatures. 4. We develop communication methods and systems that overcome national and global issues of geography and security. 5. We develop tools and training to prepare first responders and others to recognize weapons of mass destruction threats as they enter new global situations.	
Remedial Classes	No. of SC, ST, OBC, GM, MALE, FEMALE		Students from low income background often fall behind early on their education journey. Without adequate and timely support to address their learning needs they continue to perform Poorly. Eventually the students lagging behind, will keep failing to learn the basic literacy and numeracy skills, and most likely will end up dropping out of school illiterate. The majority of Global Education Partnership (GPE) countries have acknowledged in their Education Sector Plans and Strategies the need to address the problem of low learning levels, and of students not going efficiently through the	

			public education system, which has resulted in wastage of financial and human resources. Ideally interventions that aimed to improve learning of low performing students should be included in the framework of a country's educational policies in alignment with other institutional arrangements such as teacher training, curriculum, assessment, available pedagogic materials, instructional time, language of instruction (when applicable), among others. However, many of these countries are yet to draft policies that would specifically focus on helping low performers.		
10. Peer Learning	No. of SC, ST, OBC, GM, MALE, FEMALE		This form of peer learning is classroom-based; that is, taking place in labs, seminars, or workshops and strictly occurring outside the context of lectures. The focal point of the SLA approach is to create "cooperative learning within the framework of a partnership with the formal structures of the course" As a result; the benefits are comparable and advantages, largely because it extends to an array of areas. This includes benefits to the overall success of an institution, its academic teaching staff, its course programs, its students.		
13. Sponsorship of 20% on academic activities in Tech Fest	No. of SC, ST, OBC, GM, MALE, FEMALE	UG students -17 batch	Puneeth Gowda H A	1DA17ME116	Final event of the competitions , Bharath formula Karting (BFKCT) Coimbatore- 5 days 28 Feb. 2019 to 20 March 2019
			Shriram Bhat	1DA17ME139	
			Prasanna H P	1DA17ME112	
			Prasanna P	1DA17ME113	

1.3.2.2 Research Assistantships

Activities	Total no. of participants	Beneficiaries	Brief Report	Detail Outcomes
Research Assistantship for full time Ph.D Scholars	SC = 1: Balaji J-1DA18PME03	Research Scholar	Experimental & computational Investigation of Thermal - Mechanical characteristics of Epoxy with hybrid fillers composites Under the Guidance Dr Nataraja M M, Assistant Professor	Preparation for Course work

Stipend Rs 18,000/ Month
From March 2018

Report from July 2018 to June 2019

1.3.2.2 Research Assistantships

Activities	Total no. of participants	Beneficiaries	Brief Report	Detail Outcomes
	SC = 2			
	ST			
	OBC			
	GM = 1			
	MALE			
1	Balaji J	Research Scholar		Preparation for Course work
	1DA18PME03		Experimental & computational Investigation of Thermal - Mechanical characteristics of Epoxy with hybrid fillers composites	
			Under the Guidance : Dr Nataraja M M, Assistant Professor	
			Stipend Rs 18,000/ Month	
			July 2018 to June 2019	
2	Sadashiva K	Research Scholar	Investigation on Mechanical and Morphological characteristics of Ramie	Preparation for

	1DA19PME03		fiber & Silk fiber Epoxy hybrid composites for dynamic application.	Course work
			Under the Guidance Dr K M Purushothama Professor	
			Stipend Rs 18,000/ Month June 2019	
3	Supreeth S	Research Scholar	Feasibility studies on Hydrodynamic Air Foil Thrust Bearings for improved load carrying capabilities	Preparation for Course work
	1DA19PME02		Under the Guidance Dr T N Raju Assoc. Professor	
			Stipend Rs 18,000/ Month	
			June 2019	

Report from July 2019 to June 2020

1.3.2.2 Research Assistantships				
Activities	Total no. of participants	Beneficiaries	Brief Report	Detail Outcomes
	SC = 2			
	ST			
	OBC =1			
	GM = 1			
	MALE			
1.Research Assistantship for full time Ph.D Scholars				
July 2019 to June 2020	Balaji J	Research Scholar	Experimental & computational Investigation of Thermal - Mechanical characteristics of Epoxy with hybrid fillers composites.	Literature Survey & Preparation for Course work
	1DA18PME03			
			Under the Guidance Dr Nataraja M M,	
			Assistant Professor	
			Stipend Rs 18,000/ Month	
2	Sadashiva K	Research Scholar	Investigation on Mechanical and Morphological characteristics of Ramie fiber & Silk fiber Epoxy hybrid composites for dynamic application.	Literature Survey & Preparation for Course work
	1DA19PME03			

			Under the Guidance Dr K M Purushothama Professor	
			Stipend Rs 18,000/ Month	
			July 2019 - June 2020	
3	Supreeth S	Research Scholar	Feasibility studies on Hydrodynamic Air Foil Thrust Bearings for improved load carrying capabilities.	Literature Survey & Preparation for Course work
	1DA19PME02			
			Under the Guidance Dr T N Raju Assoc. Professor	
			Stipend Rs 18,000/ Month	
			July 2019 - June 2020	
4	Achunala Rajesh	Research Scholar	Experimental Studies on utilization of industrial waste with polymer composite by thermal spray technique for wear resistance coating and validate the properties with applications of finite element method.	Literature Survey & Preparation for Course work
	1DA19PME04			
			Under the Guidance Dr Nataraja M M, Assistant Professor	
			Stipend Rs 18,000/ Month	
			Oct. 2019 - June 2020	

Report from July 2020 to Aug 2021

1.3.2.2 Research Assistantships				
Activities	Total no. of participants	Beneficiaries	Brief Report	Detail Outcomes
	SC = 2			
	ST			
	OBC =1			
	GM = 1			
	MALE			
1.Research Assistantship for full time Ph.D Scholars				
1	Balaji J	Research Scholar	Experimental & computational Investigation of Thermal - Mechanical characteristics of Epoxy with hybrid fillers composites Under the Guidance Dr Nataraja M M, Assistant Professor	Comprehensive viva voce completed
	1DA18PME03			

			Stipend Rs 18,000/ Month	
			July 2020 – Aug. 2021 (paid from July 2020 to June 2021)	
2	Sadashiva K	Research Scholar	Investigation on Mechanical and Morphological characteristics of Ramie fiber & Silk fiber Epoxy hybrid composites for dynamic application	Comprehensive viva voce completed
	1DA19PME03		Under the Guidance Dr K M Purushothama	
			Professor	
			Stipend Rs 18,000/ Month	
			July 2020 – Aug. 2021 (paid from July 2020 to June 2021)	
3	Supreeth S	Research Scholar	Feasibility studies on Hydrodynamic Air Foil Thrust Bearings for improved load carrying capabilities	Comprehensive viva voce completed
	1DA19PME02		Under the Guidance Dr T N Raju	
			Assoc. Professor	
			Stipend Rs 18,000/ Month	
			July 2020 – Aug. 2021 (paid from July 2020 to June 2021)	
4	Achunala Rajesh	Research Scholar	Experimental Studies on utilization of industrial waste with polymer composite by thermal spray technique for wear resistance coating and validate the properties with applications of finite element method.	Coursework completed
	1DA19PME04			
			Under the Guidance Dr Nataraja M M,	

		Assistant Professor
		Stipend Rs 18,000/ Month
		July 2020 – Aug. 2021 (paid from July 2020 to June 2021)

REPORT FROM JULY 2018-JUNE 2019

1.3.2.5 Research and Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute	All Students	UG Students	Workshop on Design and Analysis using CATIA and ANSYS one week program 28th Jan to 1st Feb 2019	ATTENDED
Spares and consumables for UG/ PG student research project	Puneeth Gowda H A Shriram Bhat Prasanna H P Prasanna P	UG Students	Final event for the competition Bharath Formula Karting (BFKCT), Coimbatore 28th Feb 2019 to 02th March 2019	PARTICIPATED
4. Publication in peer reviewed journals having citation & impact factor and Scopus index	Bhanupratap R	Faculty-UG	Paper entitled “Jute /Kevlar Epoxy Nanocomposites: Effect of Clay Treatment on Dynamic Mechanical Properties (Published)	Presented the paper in National Conference, Agnel Institute of Technology, Bardez, Goa. Presented the paper in

	Vishwanath M M	Faculty-UG	Computational Investigation on Heat Transfer and Fluid Flow in Twin-Wire Arc Welding (Published)	International Conference Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Anantapur, Andhra Pradesh
	Mohan Kumar B	Faculty-UG	Smart and Sustainable Developments in Materials	Presented the paper in International Conference NMAM, Nitte Karkala
	Dr. Gangadhar N	Faculty-UG		Mechanical, Aerospace and Production Engineering (ICMAPE-2019) and Industrial Electronics and Electrical Engineering (ICIEEE-2019)

Report from April 2017 to June 2018

1.3.2.4 Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes

Short Term Training Programmes (STTP) in house	Can provide details in a separate sheet (Faculty and staff)	Annexure 1		
Registration fee and TA/DA for STTP in other reputed institutes	Can provide details in a separate sheet (Faculty and staff)	Annexure 2		
IIT training to faculty at IIT or in parent institute	--	--	--	--
Attending Conferences/ Seminars / Workshops	Can provide details in a separate sheet (Faculty)	Annexure 3		
Support Staff training	Can provide details in a separate sheet (staff)	--	--	--
7. Qualification upgradation of faculty and staff	1. SC	1. Dr. M MahadevaSwamy	1. June 2017 – NIT(T)	--
Faculty and staff training in industry (registration fees, TA/DA, accommodation etc.)	--	UG/PG Students	Special Talk on Industry -Academic Interaction by Technology	--

			Cooperative Society Limited 21.02.2018	
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Annexure 1:

Sl. No	Department/s Involved	Target Group (Faculty/ Staff/)	Title of Training Programme	Training Type	Dates (Both Days Inclusive)	Duration of Training Programme	Participants
1	Mechanical Department	Faculty members of Dr.AIT and other Institute faculty also	Recent Advances in IC Engine Developments	Five days Workshop	02.04.2018 to 07.04.2018	5	78
2	Mechanical	Faculty	Smart Materials and Structures	One day workshop	27-03-18	1	60
3	Mechanical	Faculty	Computer Integrated Manufacturing along with Industry Visit	One day workshop	23-03-18	1	60
4	Mechanical	Faculty	Advanced Welding Technology	one week FDP	23rd April 2018 to 27th April 2018	5	60

Annexure 2:

Sl. No.	Name of the faculty	Designation	Dept.	Title of the program	Place of Course for Training	Dates	Category
1	Dr.B.Ravindra	TEQIP Coordinator	Mechanical	Review Twinning Arrangements	AICTE, New Delhi	16.01.2018	GM
2	Dr.B.Ravindra	TEQIP - III Coordinator and NBA & OBE Coordinator	Mechanical	NBA & Outcome Based Education (OBE)	AICTE, New Delhi	08.02.2018 and 09.02.2018	GM

Sl. No	Department/s Involved	Target Group (Faculty/ Staff/ BOG)	Title of Proposed Training Programme	Dates (Both Days Inclusive)	Duration of Training Programme	Participants
1	Mechanical	Institute of Engineering and Technology, DR.RML Awadh university, Faizabad, Uttar Pradesh	To guide the teaching faculty and students of the partner Institute in the respective department subjects	07.02.2018 to 11.02.2018	5 days	Mr.Chandrashekar
	Mechanical					Mr.Shashikanth N

Annexure 3:

Sl. No.	Name of the faculty	Designation	Dept.	FDP / SDP	Title of the course	Place of Course for Training	Category	Dates
1	Jagadeesh S K	Assoc. Prof	Mech	FDP	24th National and 2nd Intranational ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTS-2017)	BITS-Pilani, Hyderabad	GM	27.12.2017 to 30.12.2017

2	PRASHANTH A S	Asst. Professor	Mechanical	FDP	Workshop on "Computational Technique and Mathematical modeling"	NIT ROURKELA	SC	01st Nov 2017 to 05th Nov 2017
3	Mr Rajesh Chandra C	Asst Professor	Mechanical	FDP	One week workshop on "Research Methodology"	Muddenahalli, Chikkaballapur	GM	04.06.2018 to 09.06.2018
4	Mr.Sharath Kumar S N	Asst Professor	Mechanical	FDP	One week workshop on "Research Methodology"	Muddenahalli, Chikkaballapur	GM	04.06.2018 to 09.06.2018

SI No	Department/s Involved	Target Group (Faculty/ Staff)	Title of Proposed Training Programme	Training Type	Dates (Both Days Inclusive)	Duration of Training Programme	Participants
1	Dr. Gangadhar N, Asst Prof	Faculty	Faculty mentors on Induction Programme for new students at Harcourt Butler Technical University, Kanpur organized by NPIU	Induction Programme	22nd to 24th Sept' 2017	3	5
2	Dr. Raju T.N	Faculty	Orientation Workshop on SLA at Auditorium, All India Council for Technical Education (AICTE) Nelson Mandela Road, Vasant Kunj, New Delhi- 110070	Workshop	11.11.2017	1	4

Report from July 2018 to June 2019

1.3.2.4 Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
1. Short Term Training Programmes (STTP) in house	Can provide details in a separate sheet (Faculty and staff)		Annexure 1	
2. Registration fee and TA/DA for STTP in other reputed institutes	Can provide details in a separate sheet (Faculty and staff)		Annexure 2	
4. Attending Conferences/ Seminars / Workshops	Can provide details in a separate sheet (Faculty)	--	--	--
5. Support Staff training	Can provide details in a separate sheet (staff)	--	--	--
7. Qualification upgradation of faculty and staff	1. SC	1. Dr. Bhanuprathap R	1. March 2019 - BU	--

Faculty and staff training in industry
(registration fees, TA/DA,
accommodation etc.)

Annexure 3

Annexure 1

SI No	Department Involved	Target Group (Faculty/ Staff)	Title of Proposed Training Programme	Training Type	Dates (Both Days Inclusive)	Duration of Training Programme
1	Mech	Students	Workshop on Design and Analysis using CATIA and ANSYS	One week program	28th Jan to 1st Feb 2019	5 day
2	T N Raju,	Assoc. Professor	Final event for the competition	Bharath Formula Karting (BFKCT), Coimbatore	28th Feb 2019 to 02th March 2019	5
	Puneeth Gowda H A	1DA17ME116				
	Shriram Bhat	1DA17ME139				
	Prasanna H P	1DA17ME112				
	Prasanna P	1DA17ME113				

Annexure 2

Sl. No.	Name of the faculty	Designation	Dept	FDP / SDP	Title of the course	Place of Course for Training	Category		Dates
1	Prashanth A S	Asst Professor	Mechanical	FDP	Development of Smart Sensor Technology towards Electronic Applications	JSS Science and Technology University, Mysore	SC		04/02/2019 to 08/02/2019
2	Bhanupratap R	Assistant Professor	Mechanical	2 days conference	To present the paper titled "Jute /Kevlar Epoxy Nanocomposites: Effect of Clay Treatment on Dynamic Mechanical Properties"	Department of Mechanical Engineering at Agnel Institute of Technology and Design, Assagao, Bardez, Goa	SC		24/01/2019 and 25/01/2019
3	Vishwanath M M	Asst Professor	Mechanical	3 days confernerce	To present a paper titled "Computational Investigation on Heat Transfer and Fluid Flow in Twin-Wire Arc Welding "	Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Anantapur, AndhraPradesh	SC		20/12/2018 to 22/12/2018
4	H S Manjunath	Asst.Prof	Mechanical	FDP	Design and Analysis of Mechanical Systems (DAMS)	NITT, Tiruchirappalli	SC		10th June to 15th June 2019
5	Ranjith V	Asst.Prof					SC		
6	Jayanth Hombalaiah	Asst.Prof					SC		
7	Rajesh Chandra C	Asst.Prof					GM		

8	Aravinda D	Asst.Prof					GM		
9	Mohan Kumar B	Asst.Prof	Mechanical	International conference	Smart and Sustainable Developments in Materials	NMAM, Nitte Karkala	SC		May 24th and 25th 2019
10	Dr. Gangadhar N	Asst.Prof	Mechanical	International Conference	Mechanical, Aerospace and Production Engineering (ICMAPE-2019) and Industrial Electronics and Electrical Engineering (ICIEE-2019)	Gangtok, Sikkim, India	SC		19th June 2019

Annexure 3

Sl. No.	Department/s Involved	Target Group (Faculty/ Staff/ BOG)	Title of Training Programme	Training Type	Dates (Both Days Inclusive)	Duration of Training Programme	Participants	
1	Mechanical	Faculty	Awareness on SAR filling in NBA Accreditation	Faculty development programme	22/10/2018 and 23/10/2018	2	71	

2	Mechanical	Faculty and Students	Two Day Workshop Training on HyperWorks	2 days	13/02/2019 and 14/02/2019	2	91		
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Report from July 2019 to June 2020

1.3.2.4 Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
1. Short Term Training Programmes (STTP) in house	Can provide details in a separate sheet (Faculty and staff)	--	--	--
2. Registration fee and TA/DA for STTP in other reputed institutes	Can provide details in a separate sheet (Faculty and staff)	Annexure 1		
4. Attending Conferences/ Seminars / Workshops	Can provide details in a separate sheet (Faculty)	Annexure 2		
5. Support Staff training	Can provide details in a separate sheet (staff)	--	--	--

7. Qualification upgradation of faculty and staff	--	1. Dr. Rajesh M 2. Dr. Shivappa H A	1. July 2020 – BU 2. Sept. 2020 - BU	--
9. Faculty training on digital pedagogy	1. GM	1. Dr. S Sathish	3-day pilot Digital Pedagogy Training JIS College of Engineering, Kalyani, West Bengal from 07/11/2019 to 09/11/2019	--
10. Motivational talks for faculty and staff for improving efficiency and belongingness	--	--	--	--
11. Faculty and staff training in industry (registration fees, TA/DA, accommodation etc.)	--	--	--	--

Annexure 2

Department/s Involved	Target Group (Faculty/ Staff/ BOG)	Title of Proposed Training Programme	Dates (Both Days Inclusive)	Duration of Training Programme	Participants
Mechanical	Institute of Engineering and Technology, DR.RML Awadh university, Faizabad	Workshop on "NBA and OBE" on 2nd and 3rd August 2019 under TEQIP at IET, Dr. Rammanohar Lohia Avadh University , Ayodhya.	2nd and 3rd August 2019	2 days	M Chandrashekar

Annexure 3

Name of the faculty	Designation	Dept.	FDP / SDP	Title of the course	Place of Course for Training	Category		Dates
Shivappa H A	Asst. Prof	Mechanical	Training	Scanning Electron Microscope (SEM) and X-ray Diffractometer (XRD)	Centre for Incubation, Innovation, Research and Consultancy (CIIRC), Jyothy Institute of Technology campus, Bengaluru	SC		26th July 2019
Preethi K	Asst. Prof.					SC		

Pavan Tejasvi T	Asst. Prof	Mechanical	FDP	“Mechatronics and Artificial Intelligence”	B M S College of Engineering, Bangalore	SC		July 29th –10th August, 2019
Shivappa H A	Asst. Prof					SC		
Preethi K	Asst. Prof					SC		
Gangadhar N	Asst Prof	Mechanical	FDP	Intelligent Optimization Techniques for Engineering Problems	National Institute of Technology Karnataka, Surathkal, Mangalore	SC		19th to 21st August 2019
Bhanupratap R	Assistant Professor	Mechanical	Paper Presentation	International conference on Materials and Manufacturing Methods (MMM-2019)	National Institute of Technology, Tiruchirappalli, Tamilnadu	SC		5th to 7th July 2019
Mr. Pavan Tejasvi T	Asst. Prof	Mechanical	National Finite Element Developers’/ FEAST Users’ Meet		Department of Atomic Energy Convention Centre, Mumbai	SC		December 09, 2019

Report from July 2020 to August 2021

1.3.2.4 Faculty/Staff Development and motivation

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
7. Qualification upgradation of faculty and staff	--	1. Dr. Pavan Tejaswi T 2. Dr. Ranjith V 3. Dr. Vishananth M M	1. April 2021 – VTU 2. March 2021 – BU 3. April 2021 - BU	--

1.3.2.6 MOOCs and Digital Learning

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Expenditure on organising inhouse Finishing School Programs under Head "Academic Processes" and Subcomponent "MOOCs and Digital Learning" - 1.3.2.6 under TEQIP-III from April 2017 to February 2020

Sl.No	Name	Designation	Dept.	Organized by	Name of the course	Application number	Registration fees in Rs.
1	Mr. Prathap J T	6th Semester student		(USN – 1DA16ME073)	Mechanical	National Program Technical Enhanced Learning (NPTEL)	
		Experimental Stress analysis and overview			STOCT1810170975		1100.00
					Conductive and convective heat transfer	STMAR191021147	1100.00
2	Vijaykumar S Mendegar	Student -		(USN – 1DA16IME122)	Mechanical	National Program Technical Enhanced Learning (NPTEL)	
		Selection of Nanomaterials for Energy Harvesting and Storage Application			July-August 2019		1000.00
3	Rahul R	1DA16ME083	Mechanical Engineering			National Program Technical Enhanced Learning (NPTEL)	Product Design using Value Engineering
		July - Aug 2019					1000.00
4	Ranjan M	1DA16ME087					1000.00
5	Preethi K	Asst Professor	Mechanical Engineering			National Program Technical Enhanced Learning (NPTEL)	Manufacturing of Composites, Engineering Metrology
		July - Oct 2019					1200.00
6	Shivappa H A	Asst Professor				National Program Technical Enhanced Learning (NPTEL)	Manufacturing of Composites, Engineering Metrology
		July - Oct 2019					1200.00
7	Dr. Sathish S	Associate Professor				National Program Technical Enhanced Learning (NPTEL)	Manufacturing Automation, Manufacturing of Composites
		July - Oct 2019					2200.00
8	Dr. Gangadhar N	Asst Professor				National Program Technical Enhanced Learning (NPTEL)	Operations Research, Manufacturing of Composites
		July - Oct 2019					2100.00

9	Mohan Kumar B	Asst Professor	National Program Technical Enhanced Learning (NPTEL)	Manufacturing of Composites	Aug - Oct 2019	600.00
10	Pavan Tejasvi T	Assistant Professor	Mechanical	National Program Technical Enhanced Learning (NPTEL)	Fundamentals of Manufacturing Processes	Jul-Oct 2019 600.00
11	Rajesh Chandra C	Assistant Professor		Manufacturing of Composites	Aug-Oct 2019	1100.00
12	Aravinda D	Assistant Professor		Heat Exchangers: Fundamentals and Design Analysis	Jul-Oct 2019	1100.00
13	Jayanth Hombalaiah	Assistant Professor		Manufacturing of Composites	Aug-Oct 2019	600.00
14	Dr. H M Somashekar	Assistant Professor		Fundamentals of Manufacturing Processes	Jul-Oct 2019	1100.00
15	T N Raju	Associate Professor		Manufacturing of Composites	Aug-Oct 2019	1100.00
			Total in Rs.	18100.00		

Sl.No	Name	Dept	Organized by	Course	Amount
2	Rajesh M	Mech		Basics of finite element analysis-1	600
3	Mohan kumar B	Mech		Advances in welding & Joining Tech	600
4	Gangadhar N	Mech		Processing of polymers & Polymer composites	600
				Advances in welding & Joining Tech	600
5	Rajesh Chandra C	Mech		Processing of polymers & Polymer composites	1100
6	Doddanna K	Mech		Fundamental of Manufacturing processes	1000

10	Gangadharshetty	Mech	Principles of casting technology	1100
			Engineering drawing and computer graphics	1000
17	Somashekar H M	Mech	Operations management	1100
18	Pawan Tejasvi	Mech	Automation in Manufacturing	600
TOTAL				8300.00

18100.00

8300.00

Total: 26400.00

I.Report from April 2017-June 2018

1.3.2.7 Mentoring/Twinning system

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
1. Two way faculty, staff and student exchange programs for training and	20	Faculty-UG	28th & 29th Aug 2017 Institute of Engineering and Technology, DR.RML Awadh university, Faizabad, Uttar Pradesh	Know about TEQIP-III and academic activities

academic activities				

II. Report from July 2018 to June 2019

1.3.2.7 Mentoring/Twinning system

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Two way faculty, staff and student exchange programs for training and academic activities	40	Faculty-UG and Students-UG	07.02.2018 to 11.02.2018 Institute of Engineering and Technology, DR.RML Awadh university, Faizabad, Uttar Pradesh	To guide the teaching faculty and students of the partner Institute in the respective department subjects
	60+35+35=130	Students-UG	23/09/2018 to 27/09/2018 Institute of Engineering and Technology, DR.RML Awadh university, Faizabad, Uttar Pradesh	To guide the teaching faculty

				and students of the partner Institute in the respective department subjects

Report from July 2019 to June 2020

1.3.2.7 Mentoring/Twinning system

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
1. Two way faculty, staff and student exchange programs for training and academic activities	300	Students-UG	24th to 28th March 2019 To students of Institute of Engineering and Technology, DR.RML Awadh university, Faizabad, Uttar Pradesh	To teach course subjects to students of Institute of Engineering and Technology, DR.RML Awadh university, Faizabad, Uttar Pradesh
4. Learning forums for improving governance practices, institutional management and	30	Faculty-UG	2nd and 3rd August 2019 Institute of Engineering and Technology, DR.RML Awadh university, Faizabad	Workshop on "NBA and OBE" on 2nd and 3rd August 2019 under TEQIP at IET, Dr. Rammanohar Lohia Avadh University , Ayodhya.

reforms				

Report from April 2017 to June 2018

1.3.2.8 Reforms, Governance

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
4. 360 degree Student Feedback & Faculty Appraisal (designing fresh system or operating cost of existing students)	735	Faculty and students of UG and PG	Done through internally developed software of Dr. AIT	<ol style="list-style-type: none"> 1. Scope for improvement 2. CO attainment

feedback system)				

Report from April 2018 to June 2019

1.3.2.8 Reforms, Governance

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Meeting expenditure for various authorities like ICC, BoS,	BOS Expenditure –	Faculty and students of UG and PG	To frame scheme and syllabus form 1 st semester to 8 th semester UG & 1 st	Syllabus Framed

Academic Council/ Senate, BoG	48000 (For 18 BOS members)		semester to 4 th semester PG	
Accreditation & UGC Autonomy fees, Workshop on OBE/SAR filing, mock visits through experts - TA/DA, honorarium etc.	All faculties of Mechanical Department SAR filling workshop – 25 Faculty members	Faculties of UG and PG	For NBA Accreditation	All faculties acquired the knowledge of accreditation
360 degree Student Feedback & Faculty Appraisal (designing fresh system or operating cost of existing students feedback system)	719	Faculty and students of UG and PG	Done through internally developed software of Dr. AIT	1. Scope for improvement 2. CO attainment

Report from April 2019 to June 2020

1.3.2.8 Reforms, Governance

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes

2. Meeting expenditure for various authorities like ICC, BoS, Academic Council/ Senate, BoG	BOS Expenditure – 18000 (For 18 BOS members)	Faculty and students of UG and PG	To frame scheme and syllabus form 1 st semester to 8 th semester UG & 1 st semester to 4 th semester PG	Syllabus Framed
3. Accreditation & UGC Autonomy fees, Workshop on OBE/SAR filing, mock visits through experts - TA/DA, honorarium etc.	SAR filling workshop at department level All faculties of Mechanical Department	Faculties of UG and PG	For NBA Accreditation	All faculties acquired the knowledge of accreditation and the department was accredited for 3 years
4. 360 degree Student Feedback & Faculty Appraisal (designing fresh system or operating cost of existing students feedback system)	689	Faculty and students of UG and PG	Done through internally developed software of Dr. AIT	1. Scope for improvement 2. CO attainment

Report from April 2020 to June 2021

1.3.2.8 Reforms, Governance

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Meeting expenditure for various authorities like ICC, BoS, Academic Council/ Senate, BoG	BOS Expenditure – 18000 (For 18 BOS members)	Faculty and students of UG and PG	To frame scheme and syllabus form 1 st semester to 8 th semester UG & 1 st semester to 4 th semester PG	Syllabus Framed
4. 360 degree Student Feedback & Faculty Appraisal (designing fresh system or operating cost of existing students feedback system)	650	Faculty and students of UG and PG	Done through internally developed software of Dr. AIT	1. Scope for improvement 2. CO attainment

Report from April 2017 to June 2018

1.3.2.9 Management Capacity Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
NPIU workshops, etc.	<u>60</u>	Faculties	Smart Materials & structures	After participating in this workshop, attendees should be able to · i) Discuss emerging issues in Smart Materials & Structures. · ii) Discuss and apply recent research findings related to Smart Materials & Structures. · iii) Reflect on the place of critical distance in Smart Materials &

				Structures
NPIU workshops, etc.	<u>60</u>	Faculties	CIM along with Industrial Visit	<p>After participating in this workshop, attendees should be able to ·</p> <p>i) Discuss emerging issues in Smart Materials & Structures. ·</p> <p>ii) Discuss and apply recent research findings related to Smart Materials & Structures. ·</p> <p>iii) Reflect on the place of critical distance in Smart Materials & Structures</p>
NPIU workshops, etc.	<u>60</u>	Faculties	Advanced Welding Technology	<p>After participating in this workshop attendees should be able to know the</p> <p>i) Know the welding process.</p> <p>ii) Different types</p>

				of welding process iii) Technicalities of welding process iv) Emissions in welding process.
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Report from April 2018 to June 2019

1.3.2.9 Management Capacity Development

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
NPIU workshops, etc.	<u>80</u>	Faculties & Students	Workshop on design & Analysis using CATIA & ANSYS	After participating in this workshop attendees should be able to know the i) Know the CATIA software

				<p>commands.</p> <p>ii) Use the CATIA software for 2D design.</p> <p>iii) Know the commands for ANSYS software.</p> <p>iv) Use ANSYS software for bar, beam and truss elements.</p> <p>v) Use ANSYS software for thermal, vibration structure.</p>
NPIU workshops, etc.	<u>40</u>	Students	Hands on Training on FEAST Software	<p>After participating in this workshop attendees should be able to know the</p> <p>i) Stress Analysis for Cantilever, simply supported beams.</p> <p>ii) SCF of a rectangular plate having a central circular hole.</p> <p>iii) Static Analysis of thick cylinders</p> <p>iv) Heat transfer analysis of thick cylinder.</p>

NPIU workshops, etc.	<u>40</u>	faculties	Recent Development in IC Engines	<p>After participating in this workshop attendees should able to know the</p> <ul style="list-style-type: none"> i) Combustion process in IC engines. ii) Exhaust gases in IC engines. iii) Hybrid IC engines. iv) Parts n IC engines.
NPIU workshops, etc.	<u>40</u>	Faculties	Awareness of Filling SAR	<p>After participating in this workshop attendees should able to know the</p> <ul style="list-style-type: none"> i) How to fill the SAR. ii) Apply SAR on-line iii) How to prepare SAR.

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE – 560056

(Autonomous Institute affiliated to Visvesvaraya Technological University, Belgaum)
BDA Outer Ring Road, Near Jnana Bharathi Campus, Mallathally, Bengaluru-560056

NPIU-TEQIP-III Sponsored

One Week Faculty development Programme



ON



“RECENT ADVANCES IN INTERNAL COMBUSTIONS

ENGINES” (RAICE-2018)

2rd June-7th 2018



FROM
Mechanical Engineering Department,

Dr.Ambedkar Institute of Technology
Bangalore-560056









Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE – 560056

(Autonomous Institute affiliated to Visvesvaraya Technological University, Belgaum)

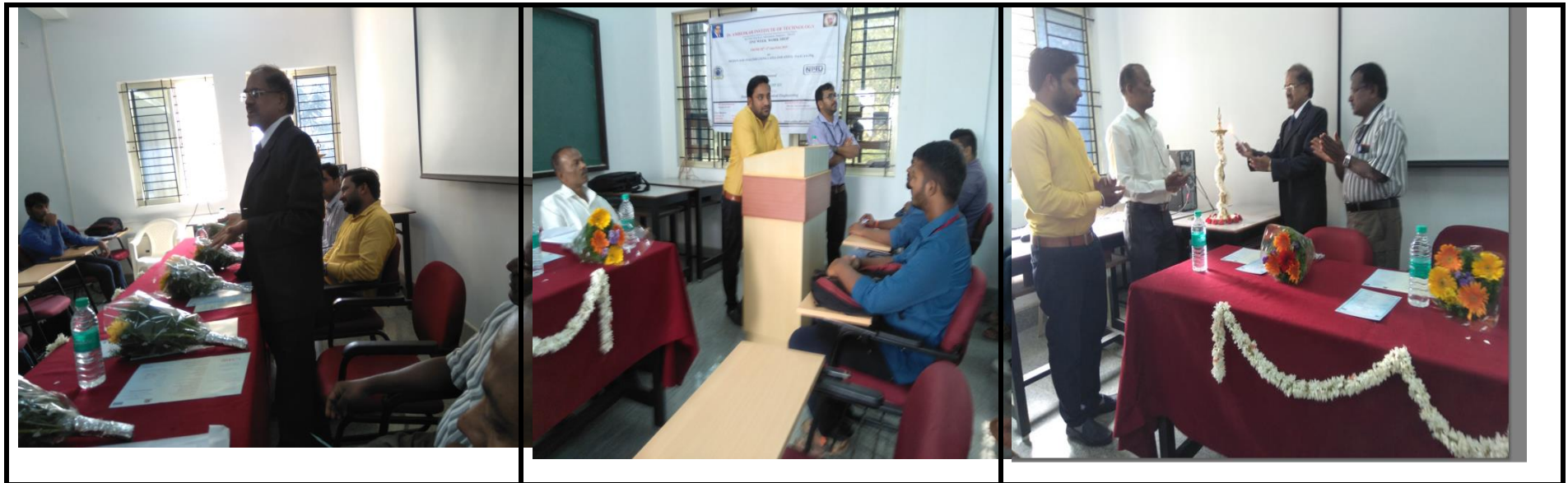
BDA Outer Ring Road, Near Jnana Bharathi Campus, Mallathally, Bengaluru-560056



NPIU-TEQIP Sponsored One Week Student Work Shop

on
Design and Analysis using CATIA and ANSYS

From
28thJan– 1st Feb2019















Report from April 2017 to June 2018

1.3.2.11 Industry-Institute Interaction

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Inviting Industry expert for lectures	60	UG and PG Students	Special Talk on Industry-Academic Interaction on 21/02/2018 Rs. 6,641/-	
TA/DA of students and faculty for Industry Visits				
Expenditure on submission of collaborative research				
Participation of industry experts in curriculum development through ICC	03 1.Dr. Rajendran 2.Mr.Renil Padmanabhan 3.Mr.Gurumurthy G	UG and PG Students	BOS Members	
TA/DA and honorarium for industry experts assisting in delivery of curriculum			Rs. 2000 per Person	

Report from July 2018 to June 2019

1.3.2.11 Industry-Institute Interaction

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes
Participation of industry experts in curriculum development through ICC	03 1.Dr. Rajendran 2.Mr.Renil Padmanabhan 3.Mr.Gurumurthy G	UG and PG Students	<u>BOS</u> <u>Members</u>	
TA/DA and honorarium for industry experts assisting in delivery of curriculum	Rs. 2000 per Person			

Report from July 2019 to June 2020

1.3.2.11 Industry-Institute Interaction

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes

Participation of industry experts in curriculum development through ICC	03 1.Mr. Sathyanarayana Murthy R. 2.Mr.Alexander Divakaran 3.Dr. K. Ramananda Rao	UG and PG Students	<u>BOS</u> <u>Members</u>	
TA/DA and honorarium for industry experts assisting in delivery of curriculum	Rs. 2000 per Person Total = Rs. 6000/-			

Report from July 2020 to Aug 2021

1.3.2.11 Industry-Institute Interaction

Activities	Total No. of participants	Beneficiaries	Brief Report	Detail Outcomes

Participation of industry experts in curriculum development through ICC	03 1. Mr. Sathyanarayana Murthy R. 2. Mr. Alexander Divakaran 3. Dr. K. Ramananda Rao	UG and PG Students	BOS Members	
TA/DA and honorarium for industry experts assisting in delivery of curriculum	Rs. 2000 per Person			

