

**BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT**  
*"Jnana Gangotri" Campus, #873/2, Ballari-Hosapete Road,  
Near Allipura, Ballari-583104 (Karnataka)*



***ANNUAL REPORT***  
***FOR THE YEAR 2019-20***

## INDEX

SN	PARTICULARS
1	Founder Chairperson and Former Union Minister
2	Tungabhadra Education Health & Rural Development Trust®, Ballari
3	Board Of Trustees
4	Basavarajeswari Group Of Institutions
5	Ballari Institute Of Technology & Management
6	Governing Body Members
7	Industry Advisory Board
8	Courses Offered
9	No. Of Students On Rolls (UG)
10	No. Of Students On Rolls (PG)
11	Research Centre Details
12	Pass percentage of students
13	Faculty Details
14	Dept. of Computer Science & Engineering
15	Department of Electronics & Communication Engg.
16	Dept. of Mechanical Engineering
17	Dept. of Electrical & Electronics Engineering
18	Department of Civil Engineering
19	Master Of Business Administration (MBA)
20	Funds by Central/ State Government
21	Management Information System
22	Certificate Courses
23	Value-added courses imparting transferable and life skills offered
24	ICT initiatives
25	Students mentoring system
26	Honours and recognitions received by teachers
27	Workshops / Seminars
28	Awards for Innovation won by Institution
29	Incubation centre
30	Research Publications
31	Books and papers in National / International Conference Proceedings per Teacher
32	Bibliometric of the Publications
33	Faculty participation in Seminars/Conferences and Symposia
34	Extension and outreach programmes conducted
35	Awards & recognition received

36	<i>Collaborative activities for research, faculty exchange, student exchange</i>
37	<i>Linkages with institutions/industries for internship</i>
38	<i>MoUs</i>
39	<i>Scholarships and Awards</i>
40	<i>Training &amp; Placement</i>
41	<i>Student progression to higher education</i>
42	<i>Sports and cultural activities / competitions</i>
43	<i>BITM Alumni Association</i>
44	<i>Central Library (Knowledge Centre)</i>
45	<i>Facilities at BITM</i>
46	<i>Faculty Empowerment Strategies</i>
47	<i>Professional Development / Administrative Training Programmes</i>
48	<i>Teachers attending professional development programmes</i>
49	<i>Quality Initiatives undertaken</i>
50	<i>Best Practices</i>
51	<i>Institutional Distinctiveness (Accreditation) (Ratings and Rankings)</i>
52	<i>Celebrations in College</i>

***A Tribute to Our  
Founder Chairperson***



***Late. Smt. Basavarajeswari  
Former Union Minister  
(08.10.1929 to 19.02.2008)***

*After serving the Nation for almost four decades she had a vision to give quality education to students of Bellary. It was her deep conviction that education needs to be joyful experience that facilitates the growth and transformation of young minds at their impressionable age and fortifies them with the required knowledge and the skills to face the challenges of a competitive world. She was also very keen on women's education and her achievements are as follows:*

- *Member, Karnataka Legislative Assembly, 1957-72*
- *Deputy Minister, Social Welfare & Minor Irrigation, Karnataka*
- *Member, Karnataka Legislative Council, 1980-83*
- *Member of Parliament 8th, 9th & 10th Lok Sabha from Bellary Constituency from 1984 to 1996.*
- *Union Minister of State for Women & Child Development, 1993-1995.*
- *In the Year 1995, as a Union Minister represented India for "World Women's Conference" at Beijing, China*
- *Participated in SAARC Meeting and travelled & addressed most of the foreign countries*
- *Founder Chairperson, Tungabhadra Education Health & Rural Development Trust(R), Bellary.*

### **Tungabhadra Education Health & Rural Development Trust®, Ballari**

Implementing world class education, at Nursery, Primary, Secondary, Pre-University, Technical and Management education, has been the primary prerogative of the TEHRD Trust, which was founded in 1981 with the aim of bringing out the best in today's generation to excel in the areas of Engineering and Technology, Management and Schooling.

As the adage goes, "Behind every successful man, there is a woman", so to speak, behind every great human enterprise, there are a few extraordinary individuals, sharing the same vision and deriving motivation from its founder.

The TEHRD Trust was founded by Late Smt. Basavarajeswari, former Union Minister and the Chairperson of Trust, who had a futuristic vision and a penchant for educating children from all walks of life, including children of a lesser God. A woman who had the drive, commitment and unparalleled passion towards the cause of educating every individual, be it any strata of the society, and an unwavering goal towards achieving a high level of literacy in the society. Thus, transforming lives through sound education and preparing the upcoming generation to be global contributors.

As an ode to its renowned founder, the Ballari Institute of Technology & Management, Sanjay Gandhi Polytechnic, Bellary Private Industrial Training Institute, Basavarajeswari Public School & College, BPSC Pre-University College, Ballari Business College are under the patronage of "BASAVARAJESWARI GROUP OF INSTITUTIONS".

A zealous Key Team, comprising of Dr. Yashvanth Bhupal, B.E., M.S., Ph.D., MIE, MISTE, Managing Trustee / Chairman of BITM, competently supported by Dr. S. J. V. Mahipal, M.B.B.S., M.D., Chairman of the Trust & BPSC, Sri. S. B. Ashok Bhupal, Trustee, and Mr. Y.J. Prithviraj Bhupal, B.E., M.Tech., (Aust.), Trustee / Deputy Director of BITM, Dr. V J. Bharath, MBBS, D. Ortho, DNB Ortho, Trustee and Sri. S. B. Amarraj Bhupal, LLM, Trustee have been bringing laurels-along the TEHRD Trust vision due to their tireless efforts. In other words, they have given wings to the vision of Basavarajeswari Group of Institutions.

### **BOARD OF TRUSTEES**



**Dr. S. J. V. Mahipal,**  
M.B.B.S., M.D.,  
**Chairman,**  
**T.E.H.R.D. Trust ® / BPSC**



**Dr. Yashvanth Bhupal,**  
B.E., M.S., Ph.D., MIE, MISTE,  
**Managing Trustee /**  
**Chairman & Director, BITM**



**Sri. S. B. Ashok Bhupal,** B.A.,  
**Trustee, T.E.H.R.D. Trust ®**



**Mr. Y.J. Prithviraj Bhupal,** B.E., M.Tech., (Aust),  
**Trustee/ Deputy Director**



**Dr. V J. Bharath,**  
MBBS, D. Ortho, DNB Ortho,  
**Trustee, T.E.H.R.D. Trust ®**



**Sri. S. B. Amarraj Bhupal,**  
LLM,  
**Trustee, T.E.H.R.D. Trust ®**

**Sri. P. Somayya,**  
**Trustee, T.E.H.R.D. Trust®**

**BASAVARAJESWARI GROUP OF INSTITUTIONS**  
**T.E.H.R.D. Trust®, Ballari**  
**One Team... One Vision...**  
**Kindergarten to Post Graduation**



**BPSC Kids Academy, Ballari**  
**Play School to UKG**  
**Basavarajeswari Public School & College,**  
**Ballari (Estd. 2006)**  
**ICSE 1st- 10<sup>th</sup> Std**



**Bellary Private Industrial Training Institute,**  
**Ballari (Estd. 2006)**  
**ITI – Fitter & Electrician**



**Sanjay Gandhi Polytechnic, Ballari**  
**(Estd. 1992)**  
**3 Years Diploma Courses**



**Ballari Business College, Ballari**  
**(Estd. 2012)**  
**BBA & B.Com (Gen. & TPP)**



**BPSC Pre University College, Ballari**  
**(Estd. 2012)**  
**Science & Commerce**



**Ballari Institute of Technology & Management, Ballari (Estd. 1997)**  
**BE, M.Tech., MBA & Research Centre**

## BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT

With its forte being accomplished, highly proficient and devoted faculty, with a sound knowledge of the subject, along with an innate desire to go toe to toe with the times and latest developments in emerging fields, has been BITM'S, alias Ballari Institute of Technology and Management's greatest strength. The institute's USP is its unfathomable student-teacher rapport and a student centric learning to give shape to the students' overall outlook. Preparing students for meeting futuristic challenges of the tomorrow are monitored very closely by the faculty, with a personal touch. Feedbacks, after counselling students and parents, to arrive at solutions play a very important role in seeing students achieve their zenith. To take the big leap in the corporate milieu, in-house training and projects, soft skills and R&D are subjects that essential to the student curriculum. Workshops and Personality Development, Industry-Institution Interactions are routine on campus.

The Governing Body of BITM has shown its mettle, as its members are pooled in from various professions such as academicians from IIM, IITs, Industrialists, Medical & Software professionals and Chartered Accountants.

A dedicated internet connectivity along with high-speed wireless networking together with latest computers and software complemented with well-equipped laboratories and a spacious library, rich in collection of books and journals speaks volumes about BITM's State-of-the-art infrastructure. The campus, spread over 11 acres of greenery, with eco-friendly surroundings, has facilities that are a class apart, combining aesthetics with modernity. With a separate hostel facility for boys & girls and a recreational area, BITM has come a long way, in terms of providing the very best facilities and imparting technical and management education with highly acclaimed academic delivery complemented with superlative infrastructure.

An ISO certification being one of its many credentials and adopting the stipulations laid down by Intertek and being conferred with an ISO 9001:2008, BITM is an Accredited Institution, comprising of many feathers in its effervescent cap!! Armed with the ISO certification, BITM conforms to the demanding international standards by creating and implementing a Quality Management System.

A plethora of prominent companies have welcomed the outgoing students of BITM with open arms, which is a shining testimony of the priority the institution gives to placement of its students.

BITM is the brain-child of its Founder-Director and present Chairman, Dr. Yashvanth Bhupal, B.E. M.S, Ph.D. Besides being highly qualified, he is also a dynamic visionary who has largely, if not singularly, been responsible for the phenomenal growth of the institute. He is a social entrepreneur in the true sense. Since 1974, he has been instrumental in establishing several organisations in various fields like Engineering Industry, Cement & Steel plants and Educational institutes. All of which have immensely benefitted the society in general and the local population in particular. He is the Managing Trustee of the TE.H.R.D. Trust which imparts education to over **9000+** students, from Kindergarten to Post-Graduation levels and provides employment to over **850** motivated personnel.

### Governing Body Members

SN	Nominated Position in Governing Council	Name of the Member	Date of App.
1	Chairman	<b>Dr. Yashvanth Bhupal</b> , MS, Ph.D., MIE, Chairman & Director, BITM, Ballari	31.05.2008/ 15.02.2010
2	Member	<b>DR. S.J.V. Mahipal</b> , MBBS,MD, No.35, 3 <sup>rd</sup> Cross, Gandhinagar, Ballari – 583 103.	01.01.1998 Reappointed on 31.05.2008
3	Member	<b>Sri. S.B. Ashok Bhupal</b> , BA Dhadesugur – Post, Sindhanur - Tq., Raichur-Dist.	01.01.1998 Reappointed on 31.05.2008
4	Member	<b>Prof. Prithviraj Y.J.</b> , B.E., M.Tech. Dy. Director, BITM, Ballari	31.05.2008
5	Member	<b>Sri. N. Srinivasan</b> , CA Chartered Accountant, 132, 2 <sup>nd</sup> Floor, Kantha Court, Lalbagh Road, Bangalore.	02.04.2005
6	Member	<b>Dr. V.J. Bharath</b> , MBBS, MD No.35, 3 <sup>rd</sup> Cross, Gandhinagar, Ballari.	23.12.2017
7	Member	<b>Mr. Amarraj Bhupal</b> , LL.M H. No: 496, RMV Extension, 9 <sup>th</sup> cross, 3 <sup>rd</sup> Main, Bengaluru.	23.12.2017
8	Nominee of AICTE – Regional Office (Ex-Officio)	The Regional Officer/ Dy. Director & Member Secretary, All India Council for Technical Education, (SWRO), Bangalore.	05.02.2004
9	An industrialist/ Technologist/ Educationalist from the Region to be nominated by the concerned Regional Committee as nominee of the Council, out of the panel approved by the Chairman of the Council.	<b>Prof. E.S. Rao</b> , BE, DIIT, M.Tech. 302, Sai Mansion, 191/B, B.K. Guda Park, S.R. Nagar, Hyderabad – 500 038	25.06.2002
10	Nominee of the Affiliating Body/ University/ State Board of Technical Education.	<b>Dr. Venkatesh</b> , Principal, Govt. Engg. College, Kushalnagar -571234, Kodagu District	01.03.2018
11	Nominee of State Government – Director of Technical Education/ Director of Medical Education/ Drugs Controller (Ex-Officio)	The Director of Technical Education Board, Govt. of Karnataka, Palace Road, Bangalore.	04.12.2003/ 31.01.2007
12	An Industrialist Technologist/ <b>Educationalist</b> from the Region nominated by the State Government.	<b>Prof. A. Jayakara Hegde</b> , B.E., M.Tech. D.No.2-112, Bantwady Post, Via Trasi – 576235 Senapur Village, Kundapur-Tq., Udupi Dist.,	23.01.2003
13	Faculty members nominated from the regular staff.	<b>Dr. G.P. Dinesh</b> , BE, MBA, Ph.D., Professor, BITM, Ballari	20.12.2014
14	Faculty members nominated from the regular staff.	<b>Dr. R.N. Kulkarni</b> , BE, M.Tech., Ph.D., Prof. & HOD, Dept. of CSE, BITM, Ballari	20.12.2014
15	Principal/ Director of the Concerned Technical Institution (as nominee of the Society/Trust). Member Secretary.	<b>Dr. V.C. Patil</b> , BE, M.Tech., Ph.D., Principal – Member Secretary, BITM, Ballari	20.12.2014

### Industry Advisory Board

SN	NAME	DESIGNATION	POSITION
1	Dr. Yashvanth Bhupal	Chairman, BITM	Chairman
2	Mr. Y.J. Prithviraj Bhupal	Dy. Director	Member
3	Dr. V.C. Patil	Principal, BITM	Member
4	Mr. S. N. Rao	Director	Member
5	Mr. Nisar Ahmed	Vice President	Member
6	Mr. P K Sarkar	Vice President-Energy	Member
7	Mrs. Seema Sali	Vice President HR (Alumnus of IIM-C)	Member
8	Mr. Bapuji Chikkanagappa	Head HR	Member
9	Mr. Sriram Iyer	Principal Consultant	Member
10	Dr. Md. Javed Kalburgi	HOD	Member Secretary



## BALLARI INSTITUTE OF TECHNOLOGY &amp; MANAGEMENT, BALLARI

**Vision**

To contribute valuable graduates for industry and society through excellence in technical & management education and research.

**Mission**

- > To offer state-of-the-art undergraduate, postgraduate and doctoral programmes.
- > To empower the students with Technical, Managerial Skills and professional ethics.
- > To collaborate with academia and industries for skill development.

The Vision & Mission and the objectives of the institutions are prepared taking into consideration the views of all the stakeholders: Management, faculty, students, parents, alumni, and industry. The Institute strongly believes in transparency, participative decentralized leadership and delegation of powers at various levels.

**Courses Offered:**

Sl. No.	Programmes & Courses	Year of Est.	Accreditation Status			
			NBA		NAAC	
			From	To	From	To
<b>Under Graduate Course</b>						
1	Computer Science & Engg.	1997	2011	2014	2015	2020
2	Electronics & Comm. Engg.	1997	2011	2014	2015	2020
3	Mechanical Engg.	1997	2011	2014	2015	2020
4	Electrical & Electronics Engg.	2007	-	-	2015	2020
5	Civil Engg.	2014	-	-	2015	2020
<b>Post Graduate Courses</b>						
1	Computer Network Engg.	2004	-	-	2015	2020
2	Digital Electronics	2007	-	-	2015	2020
3	VLSI	2011	-	-	2015	2020
4	Design Engineering	2012	-	-	2015	2020
5	Power Electronics	2014	-	-	2015	2020
6	MBA	2007	-	-	2015	2020
<b>Research Centre</b>						
1	Computer Science & Engineering	2013	--	--	--	--
2	Electronics & Communication Engg	2014	--	--	--	--
3	Mechanical Engineering	2012	--	--	--	--
4	Electrical & Electronics Engg.	2019	--	--	--	--
5	MBA	2012	--	--	--	--
6	Chemistry	2010	--	--	--	--
7	Physics	2012	--	--	--	--
8	Mathematics	2012	--	--	--	--

**Student Enrolment and Profile**

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
B.E	897	792	792
M.Tech	42	11	11
MBA	180	172	172

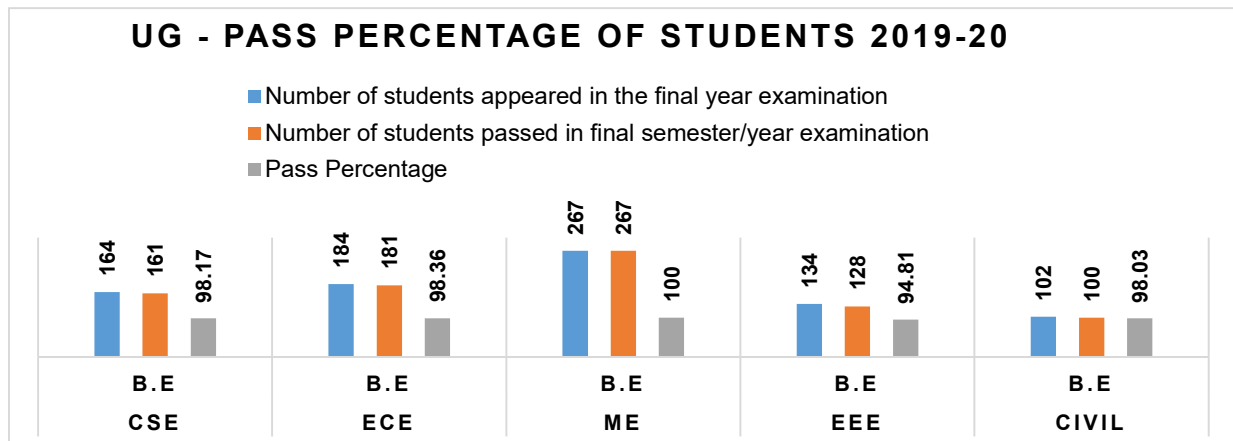
**RESEARCH CENTRE DETAILS**  
Candidates Registered for Ph.D.,

Sl. No.	Name	Department / Research Centre	Total no. of Candidates
1	Dr. R N Kulkarni	CSE	04
2	Dr. B M Vidyavathi	CSE	06
3	Dr. Rajashree V Biradar	CSE	06
4	Dr. Aradhana D	CSE	01
5	Dr. Suresh Y	CSE	02
6	Dr. U. Eranna	ECE	07
7	Dr. V.C. Patil	ECE	08
8	Dr. K.M. Sadyojatha	ECE	04
9	Dr. Yadavalli Basavaraj	Mechanical	06
10	Dr. Raghavendra Joshi	Mechanical	06
11	Dr. V. Venkata Ramana	Mechanical	04
12	Dr. V. Ravi	Mechanical	02
13	Dr. U M Daivagna	Mechanical	02
14	Dr. Janet Jyothi Dsouza	MBA	03
15	Dr. Shaheeda Banu S	MBA	02
16	Dr. Machappa T	Physics	02
17	Dr. Vijay Kumar B	Physics	-
18	Dr. Suresh	Chemistry	03
19	Dr. K.S.R Shridhar	Mathematics	01
20	Dr. Pralahad Mahagaonkar	Mathematics	01

**Pass percentage of students**

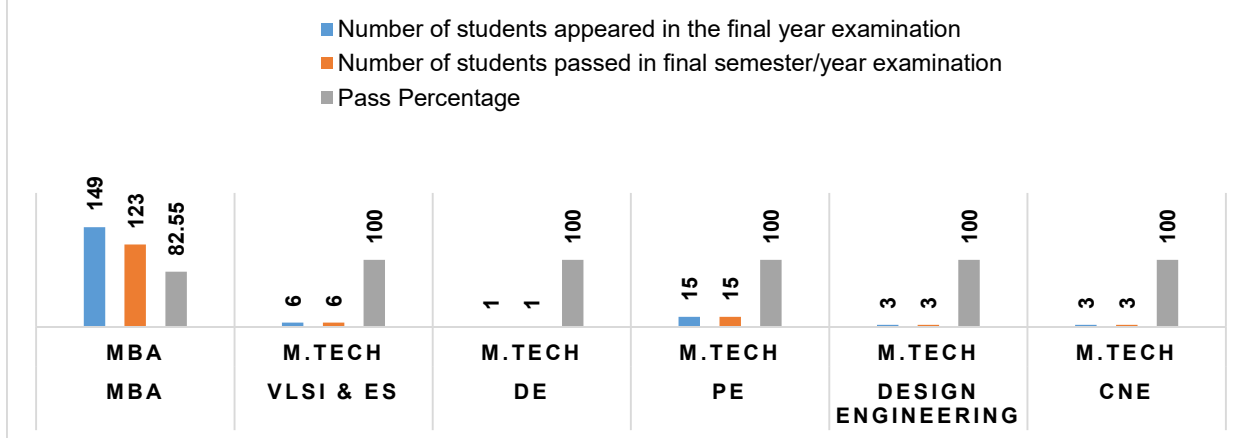
Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage
CSE	B.E	164	161	98.17
ECE	B.E	184	181	98.36
ME	B.E	267	267	100
EEE	B.E	134	128	94.81
CIVIL	B.E	102	100	98.03

**UG - PASS PERCENTAGE OF STUDENTS 2019-20**



Programme Code	Programme Name	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage
MBA	MBA	149	123	82.55
VLSI & ES	M.Tech	06	06	100
DE	M.Tech	01	01	100
PE	M.Tech	15	15	100
Design Engineering	M.Tech	03	03	100
CNE	M.Tech	03	03	100

### PG - PASS PERCENTAGE OF STUDENTS 2019-20



### Full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
241	203	38	38	05

## DEPT. OF COMPUTER SCIENCE & ENGINEERING

The Department of CSE offers B.E. in Computer Science & Engineering and M. Tech. in Computer Network Engineering. The department has well qualified, experienced and committed faculty to provide quality education to the students. The Department Infrastructure fulfils the requirements of academics, supports research and learning skills on the latest technology. The research culture among the students is harnessed at the UG and PG level augmented by the approved research centre of VTU, Belgaum.

To bridge the gap between the Industry and Academia, BITM has signed MoU with IBM Bangalore, J/Q Spider Bangalore, Infosys Ltd. Bangalore for training, Certification and Placements. BITM has centre of Excellence with IBM in the area of Cloud Computing, Mobility and Data Analytics. The students are certified by IBM after the completion of the course.

The department encourages the students to work on Interdisciplinary and Collaborative projects using both hardware and software to improve the Team work, Communication skills and deeper learning. The department is also in the process of setting up of Centre of Excellence in the area of Robotic Process Automation for which the training programs for both students and faculty is completed.

The department has student Forum viz., TechVruksha and Computer Society of India (CSI) Chapter and IEEE Student branch that provides platform for student centric activities.

### Vision:

To be a state-of-the-art learning centre that responds to the future challenges.

### Mission:

- M1: To impart knowledge with relevant theoretical and practical aspects.
- M2: To inculcate design and development process relevant to the industry.
- M3: To enhance leadership abilities through team work and research.

The vision and mission of the department are in line with that of the institute. Given the dynamic environment of CSE, we need to create technical manpower that is well versed with current requirements of the industry, engaged in research work on real world problems. It envisages building leaders.

### Programme Educational Objectives (PEOs)

<b>PEO-1</b>	Accomplish a progressive career by applying fundamental principles and design methodologies of computer science and engineering.
<b>PEO-2</b>	Provide practical solutions to solve problems of industry and society at large.
<b>PEO-3</b>	Exhibit professionalism through managerial skills and develop innovative products.

### Program Specific Outcomes (PSOs)

- PSO1** Demonstrate the principles, architecture and organization of computers, embedded systems and computer networks.
- PSO2** To develop software applications using advanced technologies to cater the growing needs of industry

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGG.

The Department was established in the year 1997 having vast academic and research experience, it provides undergraduate & post-graduation education to create, innovative graduates who can, design, analyse, develop and produce electronic and communication systems to meet the present day demands.

Today's world is an electronic world and has paved its way in almost every area, such as healthcare, medical diagnosis, automobiles, industries, etc. The emerging trends throughout the world today are IoT, Artificial Intelligence, and Robotics. This will create further demand for electronics and communication engineers in days to come.

The graduates in ECE have many career opportunities in defence services, telecommunications services, embedded systems development, electronic hardware design and manufacturing, VLSI design, software development, power sector, TV industry, music industry, automobiles, space communications, IT, home appliances development, electronic security systems, mobile phones testing and development, communication protocols development, optical communications development, etc.

The department has received funds from agencies like AICTE and VGST. The faculty members and students have published their research articles in various national and international journals/conferences. The department is very keen about the overall development of the students. In this regard various curricular, extracurricular and co-curricular activities are conducted under student chapters of professional bodies like IEEE Student Chapter, IETE and in-house forum called "Vaiseshika". This helps in developing additional skills (value addition) and good attitude among students. The students are given opportunity to gain hands on experience in the emerging areas of Electronics and Communication Engineering through MOUs with IIT Bombay, IBM, Texas Instruments, NI Labs etc. This has helped the department to achieve higher placement records.

### VISION

To be a Centre of Excellence for Learning and Development of Skills.

### MISSION

- ♦ To equip the graduates with strong foundation to meet the growing challenges.
- ♦ To inculcate design and development skills relevant to the industry and research.
- ♦ To impart innovative technologies and professional values through teamwork.

### Programme Educational Objectives (PEO's):

PEO1 To acquire strong knowledge in Basic Science, Mathematics and ability to apply this knowledge in the relevant fields of E&CE.

PEO2 To develop technical competence and uplift research ability to solve real time problems.

PEO3 To obtain professional Excellency through lifelong learning and produce graduates with professional values.

### Program Specific Outcomes (PSO's)

PSO1: To understand the principles, processes, techniques and design aspects of electronic devices, circuits and communication systems.

PSO2: To apply, analyse and design electronic circuits, communication systems, embedded systems by using higher engineering mathematical foundations, computational principles and network modelling skills.

PSO3: To develop electronic hardware and software systems for universal requirements using sensors, embedded controllers, signal processors, Analog and digital integrated chips.

## DEPT. OF MECHANICAL ENGINEERING

The Department, continuously recording excellent results in all semesters and students constantly being exposed to the latest techniques in Mechanical Engg, has earned a lot of accolades due to the well-equipped laboratories and good infrastructure along with a host of qualified and dedicated faculty. Added to this, the conducive atmosphere for research and learning, speaks volumes of the Dept. of Mechanical Engineering, led by Dr. Yadavalli Basavaraj, B.E, M.Tech, Ph.D.

A well-equipped Measurement and Material Testing Lab, along with the other labs such as, Heat Transfer, Internal Combustion Engine, Fluid Mechanics & Machinery, Robotics and CAD/CAM, Dynamics of Machines, Machine Shop and Basic Workshop and a dedicated Project Lab, wherein previous projects are displayed, so that students and faculty can undertake research activities. Regular industrial visit to JSW Steels, KPCL Thermal and Hydro Plant, Kirloskar Ferrous Ltd, LANCO Infratech, etc., are arranged every year.

The department has set up a centre of excellence in the area of Flexible Manufacturing System with Robotic Arm and Conditioning Monitoring with cost of Rs.1.08 Crores and has an MoU with Harita Tech Serve Ltd., (A unit of TVS Group), in the field of NX Siemens Design Academic Modules and Advanced ANSYS are taught to students in addition to university curriculum.

The Department is having a Students Forum viz., "Mechanical Engineers Forum" wherein the students participate in extra-curricular & co-curricular activities, seminars, workshops, etc., Students take initiative in getting innovative technical ideas, which are published in the department Magazine "YANTRIKA". Competitive examination training for PSU, GATE, etc., are also provided.

### VISION

To be a centre of excellence that provides best of teaching, learning and research.

### MISSION

- ♦To impart knowledge with strong theoretical and practical aspects.
- ♦To prepare effective and responsible graduates to meet the industry requirement.
- ♦To develop leadership qualities through team work and professional ethics.

### Programme Educational Objectives (PEOs):

**PEO 1** To make graduates self-sustained by exploring to engineering problems with innovative ideas to tackle real-time issues.

**PEO 2** To make graduates aware of the significance of competence in core engineering concepts to adopt good ethical and leadership qualities.

**PEO 3** To inculcate the graduates to pursue lifelong learning processes.

### Program Specific Outcomes (PSO's)

**PSO1:** Ability to utilize their knowledge in Mechanical Engineering Sciences on an applied basis.

**PSO2:** Ability to apply learned principles to the analysis, design, development and implementation to more advanced mechanical systems or processes.

## DEPT. OF ELECTRICAL & ELECTRONICS ENGINEERING

Electrical Engineering is one of the core branches of engineering which has driven the world of technology to excellence. With rapid industrial growth in the country, the requirement of electrical engineers has tremendously increased in power sector, industries, private and government organizations. This has resulted in opening of enormous opportunities for graduate electrical engineers.

The department's excellent infrastructure along with well qualified and professionally experienced faculty of Electrical Engineering Department ensures quality education and bright future to its students. The department has R&D centre for conducting research programs. The department provides modern facilities for practicing modern techniques of pedagogy. Different laboratories are equipped with modern hardware/software design tools for facilitating practical training for students. The facilities are also extended to students for development and demonstration of projects.

The department conducts regular seminars and workshops under the department forum. Experts from the industry and reputed organizations are periodically invited to give lectures and demonstrations to the students on latest developments in the field. Students are given exposure to industries by industrial visits and industrial training session. The department offers post-graduation program in Power electronics. The Department takes pride in its ability to nurture students and produce University Ranks both in UG and PG

The department has student Forum viz., "Electrical Engineer Forum", "Power Electronic Society" and IEEE Student branch that provides platform for student centric activities.

### VISION

To create a centre for innovation and excellence in teaching, research and service in a learning environment in the high academic ambiance for imparting technical education of high standards to meet the current and future challenges of the technological developments.

### MISSION

- To provide highest quality teaching and learning environment with emphasis to produce competent and compassionate graduates in electrical engineering.
- To discover, disseminate and apply knowledge related to the broad aspects of electrical engineering through education and research in close interaction with industry thus produce graduates who are fully equipped to achieve highest personal and professional standards for overall development.

### Program Educational Objectives (PEO)

- ☛ To prepare graduates to excel in professional career by acquiring the broad knowledge of electrical engineering.
- ☛ To prepare graduates capable of pursuing higher education and research.
- ☛ To prepare graduates to engage in lifelong learning, professional development activities, and/or other career enhancing activities.
- ☛ To prepare graduates to develop leadership qualities, professional ethics and soft skills to be successful in their professional careers in industry or academia.

## DEPARTMENT OF CIVIL ENGINEERING

The department is committed towards achieving excellence in technical education so as to produce competent and confident engineers. It houses excellent and modern laboratories, classrooms with projectors, and computing facilities for teaching and research.

The faculty is well motivated and takes personal care of the students and counsels them at regular intervals. The students are encouraged to participate in external competitions and organize industrial visits, survey camps and research projects.

**Technical Activities** Every semester, technical seminars, Guest lectures and workshops are conducted by inviting experienced academicians and Industrial experts for the benefit of students giving exposure of the recent trends in civil engineering and also arranging technical trips for the students.

**Finishing School:** A concept based program will be conducted for 8<sup>th</sup> semester Civil Engg Students every year to bridge the gap between industry and institution so as to increase the employability of the students.

**Consultancy:** The Department has actively involved in consulting services to clients in the following area; Material Testing - Concrete, Bricks, Blocks, Aggregates and Cement, etc.

### **Vision:**

To be an outstanding centre for imparting quality higher education in Civil Engineering for a constantly changing societal needs with credibility, integrity and ethical standards.

### **Mission:**

- Integrate high quality Civil Engineering Education and research by recruiting high quality faculty.
- Continue updating students with the state of the art practice & industrial interaction.
- Create a supportive environment to meet professional challenges in various Civil Engg domains.
- Facilitate effective interactions among faculty and students, and foster networking with alumni, industries, institutions and other stake-holders.

### **Program Educational Objectives (PEO)**

- Graduates would be able to work collaborate on multi-disciplinary projects and make them self-engage in lifelong learning process through their professional life.
- Graduates would able to engage themselves in higher education, research oriented program.
- Will be able to excel in their Professional career by acquiring functional, analytical, procedural software application and creative knowledge in civil engineering field to have sustainable development as an entrepreneur.



## MASTER OF BUSINESS ADMINISTRATION (MBA)

### VISION:

To provide Value based Management Education to Graduates by enhancing their knowledge and skills through effective linkages with the corporate world.

### MISSION:

The mission statement of the B-school describes the purpose of the B-school, its objectives and goals in the given context.

Set up in 2007, Department of MBA a premier Management Institute ranked amongst the top B Schools in India. DMS-BITM is an ISO 9001:2008 & CRISIL KA B\*\*\* Rated quality certified management institute. DMS-BITM has an enviable placement record and it offers an excellent return on investment in terms of the placement packages.

Top Companies such as Artech Infosystems, Shriram Transport, JSW Cement, Jaro Education, SLV Developers, Juspay, Oracle, IndusInd Bank, ViVo, Mann Hummel, Karvy, Geojit, Living Design, Vodafone, Muthoot Group, College Dehko, TradeBulls, ShareKhan, Axis Bank, AssanJobs, IndiaMart, Thyrocare., etc. are some of the loyal recruiters of our student managers.

DMS-BITM is the B-School which creates corporate leaders who "Make a Difference". Come and be a part of DMS-BITM, become a successful corporate leader.

DMS-BITM conducts one week pre-induction and orientation programme. Case Study methodology is adopted for every subject. Faculty members are available to guide and clarify and explain in case of any doubts. Internal examination (minimum two) in each subject is held to assess the level of assimilation. they also gives access to the students for the library book bank scheme and reference section, also online and Harvard business Review journals are available for gaining knowledge, add on to it, online learning module (Swayam) is facilitated, this covers the subjects ranging from financial accounting to business communication. These online modules will help students to gain knowledge into the various subjects of management,

### Funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc. towards incubation centre.

Institution/ Department/ Faculty	Scheme	Funding Agency	Year of Award	Duration	Amount
BITM	NAIN	KITS-Govt. of Karnataka	2019	365	500000

### Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration In Days	Name of the funding Agency	Total grant sanctioned	Amount received during the Academic year
Research Project	730	VGST, GOK	20 Lakhs	10 Lakhs

## MANAGEMENT INFORMATION SYSTEM

The College has a full-fledged Management information system for the Academic and administrative functioning of the college. The administrative system in the college is fully automated with appropriate software namely RoboVidya and all information on student admission, examinations, marks, fee payments, etc., is available for timely decision making and actions. The College library namely EasyLib is also automated and the information regarding the availability of books, issue details, etc., is available to the students and staff at fingertips. An online public access catalogue OPAC is implemented to enable the students for speedy and convenient access to the library catalogue. All the academic and administrative issues are deliberated and discussed in the appropriate Committees. The deliberations are properly debated and action items recorded and the decisions implemented at all levels in the form of proceedings, rules and regulations and policies. All relevant information about the college is published on the college website for reference. Some forms of MIS are Daily Absent Report Staff and Students, One Page Monthly Report, IQAC Monthly Report, Presentation Management Review Meetings Budget Meetings IQAC Quarterly Meetings Semester Progress Report Annual Report Governing Council.

### Key Certificate Courses:

Name of the Certificate Course	Duration
NX-11 Uni Graphics (Mechanical Engg.)	180 days
Robotic Process Automation (Computer Science & Engg.)	7 days
Flexible Manufacturing System (FMS) (Mechanical Engg.)	7 days
Surya Mitra (Electrical & Electronics Engg.)	60 days

### Value-added courses imparting transferable and life skills offered

Value Added Courses	Date of introduction
Training on Finishing School	01.12.2019
CATIA Training	23.01.2020
Wipro Talent Next Certification Program	01.02.2020
C Programming	10.01.2020
Java & Python - J Q Spiders	10.01.2020
Aptitude Training for employability	08.01.2020

### ICT initiatives:

Number of teachers on roll	Number of teachers using ICT (LMS, e-Resources)	ICT tools and resources available	No. of ICT enabled classrooms	No. of smart classrooms	E-resources & techniques used
241	241	LCD Projectors, Laptops, Web Cameras, Head Phones, Internet Wi-Fi, Smart TVs, Smart Boards and Open Source Softwares.	62	2	Google Classroom, Microsoft Teams, VTU e-Consortium e-Resources, NPTEL and MOOC Resources, Capital Line etc.

**Students Mentoring System:**

The student mentoring system in the institution takes care of the overall development of students in terms of academic performance, building up the career, move towards the right path and be focused in relevant fields. The objectives of the support system are Monitor the academic performance, Mentor and guide them to achieve and do better in academics, Understand the problems including personal and advice appropriately to monitor the overall development of the student. Each student is allotted with a faculty mentor, and each mentor maintains a Proctor form with details like parent s guardian s name, addresses, contact numbers and academic details, academic scores. Psychological counsellors are available to all the students who are counselled individually, aided therapeutically and are supported in their aspirations related to academics, career plans to air their grievances and cope with issues which may impede their progress in the above areas. All student mentors encourage the students' participation, apart from curricular guidance, also in co-curricular, extracurricular and other profession activities, which will motivate them stimulate their growth into well rounded young professionals. Regular orientation programs and Parent meetings are conducted bringing parents into the monitoring mentoring system as key stake holders. Follow up sessions with the parents' faculty counsellors and mentors are regularly arranged with the students who have poor performance and attendance to enable them to improve their attendance and performance. Details of mentoring system

- 1 Professional guidance Encourage students to discuss their ideas on paper presentations. Stimulate students thinking towards innovation in projects Support their learning through attending technical workshops. Motivate them to expand their domain knowledge base through participating in competitive activities like Corporate quizzes
- 2 Academic guidance Share information of academic planners, academic schedules and e learning resources. Identify students with poor attendance and ensure that they improve their attendance by getting counselled in the presence of mentor, counsellor and HOD Focus on academically weak students, by providing them with additional reading materials, model questions along with solutions and special make up Classes.
- 3 Career advancement Encourage students to do certification courses in order to build on their qualifications related to their career. Provide Career Guidance CRT and other Training apart from arranging campus recruitment drives by the Training and Placement Cell Support their research into Industry, companies, job and candidate profiles.
- 4 Laboratory specific Counsel irregular students to laboratory classes to attend regularly and complete backlog experiments during specified extra hours. Arrange special lab coaching for Students with backlogs in external lab exams.

**Honours and recognitions received by teachers:**

Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
<b>Dr Janet Jyothi Dsouza</b>	<b>Associate Professor</b>	<b>AIMS International Outstanding Young Woman Management Researcher Award on January 2 nd 2020 by AIMS International and IIM Kozhikode</b>

**Workshops / Seminars:**

Title of Workshop/Seminar	Name of the Dept.	Date(s)
Student Development Program on “Robotic Process Automation (RPA)”	Computer Science Engineering	06/08/2019
Workshop on copyrights and IPR	Research and Development	22/02/2020
World Intellectual Property Day	Research and Development	26/04/2020
Wipro Talent Next Digital Certification Program	CSE, ECE and EEE	01/06/2020

**Incubation centre:**

S No	Team Members	Branch	Project Title	Project Cost	Mentor
1	Shoaib	ECE	Car Drowsiness Detection System	2,42,500	Prof Raymond
	Sundeeep	ECE			
	Shasahank	ECE			
2	Rajeshwari	ECE	“Store Some” Solar Powered Mobile Cold Storage Monitoring System	3,00,000	Dr. Naseeruddin
	Md Owais	ECE			
	Sana Sumaiya	ECE			
3	Indravasan N M	Alumni	Virtual Bricks	3,00,000	Dr Naseeruddin
	Sharan Raj K M	Alumni			
	Kalyan Simha	CSE			
	Mandara M S	CSE			
4	H M Dayanand	ME	Solar photovoltaic thermal fruit dryer and refrigerator.	2,90,000	Prof Shekhar
	Deepak A M	ME			
	Vasudha	ECE			
	Kolli Hemanth	ME			
	Karnam Shreyas	ME			
	Allauddin Baig	ME			
5	Shruthi	ECE	Robotic Harvesting	3,00,000	Prof Raymond
	Dakshitha Nagaradone	CSE			
	Sampada Polepalli	EEE			
6	Naheen	ECE	Intact Milestone	215100	Prof. Nilam C
	Fouzia Nikhath	ECE			
	S Aneesa Begum	ECE			

7	Sai Vandana .V	CSE	Lost Item Bureau	3,00,000	Prof Raymond
	Naveen B.M	CSE			
8	Sumanth	ECE	Alternate Power Production	117000	
	Prasanth	ECE			
	Keerthana	ECE			
9	Maiderkari Akash Kumar	EEE	I Tech Shoe	3,00,000	Prof. Sridhar E
	Gopal M V	EEE			
10	Sai Krishna Kubera	Alumni	BIO World	3,00,000	Dr. Yadavalli Basavaraj
	Nandeesh	Alumni			
	Srinidhi	Alumni			

### Research Publications:

	Department	No. of Publication
National	CSE	42
	MBA	2
International	Chemistry	7
	Civil	15
	ECE	3
	EEE	6
	MBA	2
	ME	12
	Physics	7

### Books and papers in National / International Conference Proceedings per Teacher:

Department	No. of publication
CSE	3
ECE	1
MBA	1

### Bibliometric of the Publications:

#### Research Papers per Teachers in the Journals

COMPUTER SCIENCE AND ENGINEERING						
Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	No. of citations excluding self-citations
Voice Controlled Smart Floor Cleaning Robot	Dr. R N Kulkarni	International Journal for Research in Applied Science & Engineering	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8	BITM, BALLARI	--

		Technology (IJRASET)		Issue V May 2020, Page:2706-2709		
<b>Customer Feedback System using Emotion Detection</b>	Dr. Aradhana D	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue V May 2020, Page: 2898-2901	BITM, BALLARI	--
<b>Alternative Communication Device on Eye-Blink Detection</b>	Mr. Hari Krishna H	International Research Journal of Modernization in Engineering Technology and Science	2019-2020	International Research Journal of Modernization in Engineering Technology and Science, Volume:02, Issue:05, May-2020, Page:1255-1258	BITM, BALLARI	--
<b>An Android Application on Unreserved Railway Ticket Booking System</b>	Mr. Sreenivas M	International Research Journal of Modernization in Engineering Technology and Science	2019-2020	International Research Journal of Modernization in Engineering Technology and Science Volume:02, Issue:05, May-2020, Page:406-410	BITM, BALLARI	--
<b>Application of saviour to save from emergency situations</b>	Mr. Kiran M	International Journal of Advance Research, Ideas and Innovations in Technology	2019-2020	International Journal of Advance Research, Ideas and Innovations in Technology, Volume ; 6, Issue; 3, May-June 2020, Page:366-368	BITM, BALLARI	--
<b>Armour for Nebulous Data using Secret Writing</b>	Mr. Sudhakar A	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue V May 2020, page:2627-2629	BITM, BALLARI	--
<b>Disease Prediction and Hospital Recommendation using Machine Learning</b>	Mr. Usman K	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue V May 2020, Page:2054-2063	BITM, BALLARI	--
<b>Faculty Management System App Using Android</b>	Mrs. Anita S Patil	International Research Journal of Modernization in Engineering Technology and Science	2019-2020	International Research Journal of Modernization in Engineering Technology and Science, Volume:02, Issue:05, May-2020, Page:596-600	BITM, BALLARI	--
<b>Fake News Detection Using Machine Learning</b>	Mr. Virupaksha Gouda	International Journal of Research in Engineering, Science and Management	2019-2020	International Journal of Research in Engineering, Science and Management, Volume-3, Issue-6, June-2020, Page:118-120	BITM, BALLARI	--
<b>Hostel Students Smart Tracking System</b>	Mr. Bimanna Alaladinni	International Research Journal of Modernization in Engineering Technology and Science	2019-2020	International Research Journal of Modernization in Engineering Technology and Science, Volume:02/Issue:05/May-2020, Page:971-974	BITM, BALLARI	--
<b>Image Resolution Using Super Resolution</b>	Dr. Rajashree. V. Biradar	International Research Journal of	2019-2020	International Research Journal of Modernization in	BITM, BALLARI	--

<b>Convolutional Neural Network (SRCNN)</b>		Modernization in Engineering Technology and Science		Engineering Technology and Science, Volume:02, Issue:05, May-2020, Page:1192-1197		
<b>IoT Based Refrigerator For Monitoring Stored Food Materials</b>	Mrs. Jagadevi P	Journal of Emerging Technologies and Innovative Research (JETIR)	2019-2020	Journal of Emerging Technologies and Innovative Research (JETIR), June 2020, Volume 7, Issue 6., Page: 180-184	BITM, BALLARI	--
<b>Multilevel Organizational Data Sharing In Cloud Computing</b>	Mrs. Shwethashree A	International Research Journal of Modernization in Engineering Technology and Science	2019-2020	International Research Journal of Modernization in Engineering Technology and Science, Volume:02, Issue:05, May-2020, Page:1008-1010	BITM, BALLARI	--
<b>Placement and Academics Android Application</b>	Mrs. Prathibha Mishra	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue VI, June 2020, Page:541-543	BITM, BALLARI	--
<b>Practical Privacy Preserving of data using Big data</b>	Mr. Azhar Baig M.	Journal of Emerging Technologies and Innovative Research (JETIR)	2019-2020	Journal of Emerging Technologies and Innovative Research (JETIR), June 2020, Volume 7, Issue 6, Page:856-866	BITM, BALLARI	--
<b>Rice Plant Disease Detection</b>	Ms. Pooja Kulkarni	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue VI, June 2020, Page:237-241	BITM, BALLARI	--
<b>Smart Stick for Blind Person using Internet of Things</b>	Mr. Pani Ram Prasad	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue VI, June 2020, Page:455-464	BITM, BALLARI	--
<b>IOT based a Smart Wearable System for Sudden Infant Death Syndrome</b>	Mr. A Venkateshwar	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue VI, June 2020, Page:257-259	BITM, BALLARI	--
<b>Simplified Management Automation for RTO Using RFID</b>	Mr. Srisailanath	International Journal of Research and Scientific Innovation (IJRSI)	2019-2020	International Journal of Research and Scientific Innovation (IJRSI)   Volume VII, Issue IV, April 2020   ISSN 2321-2705, 272-273	BITM, BALLARI	--
<b>Soldier Health Monitoring System Using IOT</b>	Mr. Usman k	International Research Journal of Modernization in Engineering Technology and Science	2019-2020	International Research Journal of Modernization in Engineering Technology and Science, Volume:02, Issue:05, May-2020, Page:754-758	BITM, BALLARI	--
<b>Spam Detection in Twitter</b>	Mr. Girish Kumar D	International Journal for Research in	2019-2020	International Journal for Research in Applied Science & Engineering	BITM, BALLARI	--

		Applied Science & Engineering Technology (IJRASET),		Technology (IJRASET), Volume 8 Issue VII, July 2020, Page:783-787		
<b>Students Placement Prediction using Machine Learning</b>	Mr. C K Srinivas	International Journal for Research in Applied Science & Engineering Technology (IJRASET),	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue V May 2020, Page:2771-2774	BITM, BALLARI	--
<b>Voice Controlled Smart Wheel Chair</b>	Dr. Aradhana D	International Journal for Research in Applied Science & Engineering Technology (IJRASET),	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue VI, June 2020, Page: 568-570	BITM, BALLARI	--
<b>IOT based Virtual Fencing Technique for Children Monitoring</b>	Mr. Md. Shafiulla	International Journal for Research in Applied Science & Engineering Technology (IJRASET),	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue VI, June 2020, Page:819-824	BITM, BALLARI	--
<b>Text Extraction from Images Using OCR</b>	Mr. Md. Shafiulla	International Journal for Research in Applied Science & Engineering Technology (IJRASET),	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8 Issue V, May 2020, Page:1805-1810	BITM, BALLARI	--
<b>An Android Application on Direct Marketing With No Involvement Of Intermediary</b>	Mrs. Anita S Patil	International Research Journal of Engineering and Technology (IRJET)	2019-2020	International Research Journal of Engineering and Technology (IRJET), Volume; 7, Issue; 6, June 2020, Page-406-410	BITM, BALLARI	--
<b>IOT based Voice Controlled System for Smart Applications</b>	Mr. Venkateshwar A	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume; 8, Issue; 5, May 2020, Page:2791-2795	BITM, BALLARI	--
<b>Character Recognition System for Handwritten English Alphabets</b>	Mr. Dadapeer	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume; 8, Issue; 7, July 2020, Page:1852-1855	BITM, BALLARI	--
<b>Integrated Tax Payment System</b>	Dr. T R Muhibur Rahman	International Research Journal of Engineering and Technology (IRJET), Volume; 7, Issue; 5, May 2020, Page:7549-7553	2019-2020	International Research Journal of Engineering and Technology (IRJET), Volume; 7, Issue; 5, May 2020, Page:7549-7553	BITM, BALLARI	--
<b>Real Time Eye Tracking For</b>	Dr. T R Muhibur Rahman	International Journal of Advanced	2019-2020	International Journal of Advanced Research in Computer Science,	BITM, BALLARI	--



<b>Password Authentication</b>		Research in Computer Science		Volume 11, No. 3, May-June 2020, Page:50-54		
<b>Event Organization System</b>	Ms. Aishwarya R Nayaka	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019-2020	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume; 8, Issue; 6, June 2020, Page: 1376-1378	BITM, BALLARI	--
<b>A Smart System For College Bus Transportation</b>	Mr. C K Srinivas	International Research Journal of Engineering and Technology (IRJET)	2019-2020	International Research Journal of Engineering and Technology (IRJET), Volume; 7, Issue; 5, May 202, Page:801-807.	BITM, BALLARI	--
<b>Prediction of Stock Prices Using Machine Learning Techniques</b>	Dr. Rajashree V Biradar	International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)	2019-2020	International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 9, Issue 5, May 2020, Page:2771-2774	BITM, BALLARI	--
<b>Blockcloud: Integrating Blockchain Security Features in Cloud Computing</b>	Dr. Rajashree V Biradar Mr. Girish Kumar D	International Journal of Engineering and Advanced Technology (IJEAT)	2019-2020	International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-4, April 2020, Page:1501-1505	BITM, BALLARI	--
<b>Cross Layered Design and RF Energy Harvesting Techniques: A Survey</b>	Dr. Rajashree V Biradar	International Journal of Engineering Research & Technology (IJERT)	2019-2020	International Journal of Engineering Research & Technology (IJERT)	BITM, BALLARI	--
<b>QR Code based Student Monitoring System</b>	Mrs. Pratibha Mishra	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2019-2021	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume; 8, Issue; 5, May 2020, Page:2238-2242	BITM, BALLARI	--
<b>Ameliorated Methodology to Represent UML use Case Diagram into Table Format</b>	Dr. R N Kulkarni,	International Journal of Engineering and Advanced Technology	2019-2020	International Journal of Engineering and Advanced Technology (IJEAT), Volume 9, Issue 1, October 2019, Page 4099-4102	BITM, BALLARI	--
<b>Ameliorated Methodology to Represent UML use Case Diagram into Table Format</b>	Mr. C K Srinivas	International Journal of Engineering and Advanced Technology	2019-2020	International Journal of Engineering and Advanced Technology (IJEAT), Volume 9, Issue 1, October 2019, Page 4099-4102	BITM, BALLARI	--
<b>Secret Image Sharing using 2-Pixel Visual Cryptography Encryption</b>	Dr. R N Kulkarni,	International Journal of Recent Technology and Engineering (IJRTE)	2019-2020		BITM, BALLARI	--
<b>Realization of Parallelism in a Sequential Legacy „C“ Program</b>	Dr. R N Kulkarni,	International Journal of Recent Technology and Engineering (IJRTE)	2019-2021	International Journal of Recent Technology and Engineering (IJRTE), Volume 9, Issue 2, July 2020, Page :1179-1183	BITM, BALLARI	--

<b>Abstraction of Functional Modules from a Legacy 'C' Program using Program Slicing</b>	Dr. R N Kulkarni,	Perspectives in Communication, Embedded-Systems and Signal-Processing (PiCES) –An International Journal	2019-2022	Perspectives in Communication, Embedded-Systems and Signal-Processing (PiCES) –An International Journal, Volume 4, Issue 4, Page 39-44	BITM, BALLARI	--
--	-------------------	---	-----------	--	---------------	----

**ELECTRONICS AND COMMUNICATIONS ENGINEERING**

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations
<b>A simplified machine learning approach for recognizing human activity</b>	Dr. Abdul Lateef Haroon P S/ Dr. U. Eranna	International Journal of Electrical and Computer Engineering (IJECE)	Oct-19	SNIP: 1.059; SJR: 0.322; CiteScore: 2.3	BITM, BALLARI	12
<b>Design and Development of a Very Large Scale Integrated Circuit Architecture for a Digital Image Compression and Realization on Field Programmable Gate Array</b>	Mr. Premachand D R/ Dr. U. Eranna	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Jan-20	SNIP: 0.055; SJR: 0.102; CiteScore: 0.6	BITM, BALLARI	
<b>Building Energy Model for city pulse smart city traffic using M5.P</b>	Dr U Eranna/Renuka Sagar	International Journal of Electronics and communication Engineering	Dec-19		BITM, BALLARI	

**ELECTRICAL AND ELECTRONICS ENGINEERING**

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations
<b>A smart grid based cost reduction of electricity consumption by optimal technique with integrated consumer automated energy management system</b>	Abdul khaddar .A	IJRAT(international Journal of Research in Advent Technology)	Aug-19	-	BITM, BALLARI	-
<b>An efficient cryptography key management for secure communications in smart metering</b>	Abdul khaddar. A	IJITEE(International Journal of Innovative Technology and Exploring Engineering )	Aug-19	-	BITM, BALLARI	-
<b>Real time smart grid load management by integrated and secures communication: simulation an experimental validation</b>	Abdul khaddar. A	IJRASET(inter national Journal for Research in Applied Science and Engineering Technology)	Sep-19	-	BITM, BALLARI	-
<b>Optimal placement and sizing of</b>	Nandini. S. Patil	JETIR(Journal of Emerging	Feb-20	-	BITM, BALLARI	-

multiple DG in a radial distributed system using LSF method		Technologies and Innovative Research)				
A modified seven level cascaded H bridge inverter	Abdul khaddar.A	ITEE( Information Technology and Electrical Engineering)	Jun-20	-	BITM, BALLARI	-
A single phase grid connected photovoltaic inverter supported with a three switch three port fly back with series power decoupling circuit	Chandan .K.R.	IJR(International journal of research)	Jul-20	-	BITM, BALLARI	-
Technique For Decoupling of Dynamic Power For Three Phase System Under Unequal Grid Voltage	Abdul khaddar.A	International Journal of Information Technology and Electrical Engineering	August,2020	-	BITM, BALLARI	-
<b>MECHANICAL ENGINEERING</b>						
<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>Citation Index</b>	<b>Institutional affiliation as mentioned in the publication</b>	<b>Number of citations excluding self-citations</b>
Influence of tool parameters on the tensile properties of friction stir welded aluminium 5083 and 6082 alloys	H M Anil Kumar	Materials today: Proceedings	2020	-	BITM, BALLARI	-
Two Plane Mass Balancing Of Rotor By Using Vibration Response Of The Bearings	G Raghavendra Setty	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2020	-	BITM, BALLARI	-
Influence of tool parameters on the tensile properties of friction stir welded aluminium 5083 and 6082 alloys	Dr. V V Ramana	Materials today: Proceedings	2020	-	BITM, BALLARI	-
Two Plane Mass Balancing Of Rotor By Using Vibration Response Of The Bearings	Dr. Ganesh B	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2020	-	BITM, BALLARI	-
Experimental Analysis Of Solar Flat Plate Collector With Single Axis Manual Tracking Mechanism	V. Srinivasulu	International Journal of Modern Trends in Engineering & Research	2019	-	BITM, BALLARI	-
Multi Response Optimization of Green Sand Moulding Parameters Using Taguchi-DEAR Method	Dr. U M Daivagna	Applied Mechanics and Materials	2019	-	BITM, BALLARI	-

<b>Performance analysis of cow dung as an eco-friendly additive material for sustainable moulding and casting</b>	Dr. U M Daivagna	Overseas Foundry	2019	-	BITM, BALLARI	-
<b>Studies on Bottom ash strengthened LM13 composite</b>	Maharaja Gowda B	Materials Today: Proceedings	2019	-	BITM, BALLARI	-
<b>Experimental Analysis Of Solar Flat Plate Collector With Single Axis Manual Tracking Mechanism</b>	Dr. Raju Jadar	International Journal of Modern Trends in Engineering & Research	2019	-	BITM, BALLARI	-
<b>Studies on Bottom ash strengthened LM13 composite</b>	Dr Raghavendra Joshi	Materials Today: Proceedings	2019	-	BITM, BALLARI	-
<b>A Multi-Objective Approach for Design of Reconfigurable Manufacturing Systems</b>	Dr. U M Daivagna	International Journal of Research and Analytical Reviews	2020	-	BITM, BALLARI	-
<b>Studies on Bottom ash strengthened LM13 composite</b>	Rajashekhara Kuntanahal	Materials Today: Proceedings	2019	-	BITM, BALLARI	-

**CIVIL ENGINEERING**

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>Citation Index</b>	<b>Institutional affiliation as mentioned in the publication</b>	<b>Number of citations excluding self-citations</b>
<b>Improving SBC of sandy soil by cement grouting technique</b>	Syed Sadathali	IRJET	2019	-	BITM, BALLARI	-
<b>Precast carbon fibre reinforced footing</b>	Sharanabasava Patil	IRJET	2019	-	BITM, BALLARI	-
<b>Experimental assessment of ceramic waste as a partial replacement of filler material for BC-II Mix</b>	Sharanabasava Patil	IJRAR	2019	-	BITM, BALLARI	-
<b>Study of characteristics strength of fibre reinforced self-compacting concrete form 30 grade</b>	Shiva Kumar K	IJRAR	2019	-	BITM, BALLARI	-
<b>Study of characteristics strength of fibre reinforced self-compacting concrete form 30 grade</b>	Ravichandra Honnalli	IJRAR	2019	-	BITM, BALLARI	-
<b>Study the characteristics strength of fibre reinforced self-compacting concrete for M-30 grade.</b>	Vinaykumar H	IJRAR	2019	-	BITM, BALLARI	-
<b>Study the characteristics strength of fibre reinforced self-compacting</b>	Girish Yavagal	IJRAR	2019	-	BITM, BALLARI	-

concrete for M-30 grade.						
Study the characteristics strength of fibre reinforced self-compacting concrete for M-30 grade.	Mohammed Haseebulla	IJRAR	2019	-	BITM, BALLARI	-
Prediction of CBR Value by using Index properties of soil	Basavaraj B	IRJET	2019	-	BITM, BALLARI	-
Prediction of CBR Value by using Index properties of soil	Shivakumar K	IRJET	2019	-	BITM, BALLARI	-
Prediction of CBR Value by using Index properties of soil	Ravichandra A H	IRJET	2019	-	BITM, BALLARI	-
Prediction of CBR Value by using Index properties of soil	Md. Khalid S	IRJET	2019	-	BITM, BALLARI	-
Prediction of CBR Value by using Index properties of soil	Vinaykumar H	IRJET	2019	-	BITM, BALLARI	-
An experimental study on strength and durability characteristics of concrete made of glass powder	Mohammed Haseebulla M	IRJET	2019	-	BITM, BALLARI	-
Eutrophication assessment of the kelegeri lake using GIS technique	Preeti Jambagi	IRJET	2019	-	BITM, BALLARI	-

**MASTERS IN BUSINESS ADMINISTRATION**

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations
Banking Sector Reforms in India – A Critical Analysis	M. Javed Kalburgi, Devika Rani P., Mohammed Farzana Begum	TEST Engineering & Management	2020	-	BITM, BALLARI	-
Emotional Intelligence of Employee Excellence - A Study of Automobile Industry	Dr. M. Javed Kalburgi, Devika Rani P. & Mohammed Farzana Begum	International Journal of Management Excellence	2019	-	BITM, BALLARI	-

**PHYSICS**

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations
<u>Polypyrrole-Tantalum disulfide composite: An efficient material for fabrication of room temperature operable humidity sensor</u>	Machappa T And Sunil Kumar A	Sensors and Actuators A: Physical	2019	7	VTURC, Department of Physics, Ballari Institute of Technology and Management, Karn ataka, 583104, India	4

<b><u>A tungsten disulphide-polypyrrole composite-based humidity sensor at room temperature</u></b>	Machappa T And Sunil Kumar A	Bulletin of Materials Science	2019	3	Department of Physics, VTURC, Ballari Institute of Technology and Management, Ballari, 583104,India	-
<b><u>AC frequency-dependent dielectric studies of polypyrrole composites</u></b>	Machappa T And Sunil Kumar A	AIP Conference Proceedings	2020	-	VTURC, Department of Physics, Ballari Institute of Technology and Management, Karn ataka,583104,India	-
<b><u>.Alternating current response studies on polyaniline-neodymium oxide composites</u></b>	Machappa T	AIP Conference Proceedings	2020	-	VTURC, Department of Physics, Ballari Institute of Technology and Management, Karn ataka,583104,India	-

## CHEMISTRY

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations
<b>Electrochemical sensing based MWCNT- cobalt tetra substituted sorbaamidephthalocyanine onto the glossy carbon electrode towards the determination of 2-Amino phenol: A voltametric study</b>	Mr. Sharana Kumar T M	Sensors & Actuators: B. Chemical 301	-2019	-	BITM, BALLARI	-
<b>Synthesis Characterization and Catalytic Activity of Pheripherally Aminonaphthofuran Substituted Co(II) Pthalocyanin for Oxidation of 2-amino-4-chlorophenol</b>	Mr. Sharana Kumar T M	JSR Journal,	(2020),	-	BITM, BALLARI	-
<b>Electro Catalytic Activity Studies of Orthophynelenedia mine: Substituted Co(II) Pthalocyanin on Modified GCE.</b>	Mr. Sharana Kumar T M	JSR Journal,	(2020),	-	BITM, BALLARI	-
<b>New Peripherally Tetra-1-amino-2-napthaol-4-sulfonic acid substituted Co(II) Phthalocyanine: Synthesis, Characterization and Electro catalytic Studies on the Oxidation of o-Aminophenol.</b>	Mr. Sharana Kumar T M	JSR Journal,	(2020),	-	BITM, BALLARI	-
<b>The Influence Of MWCNT Super capacitive Behaviour Of Tetra(1-(2-Amido Phenyl)Pyrrole)</b>	Mr. Sharana Kumar T M	JSR Journal,	(2020),	-	BITM, BALLARI	-

Cobalt Phthalocyanine,						
Electrochemical properties of tetra (naphthalene thiol)cobalt(II) phthalocyanine complex integrated with multi-walled carbon nanotubes	Mr. Sharana Kumar T M	JSR Journal,	(2020),	-	BITM, BALLARI	-
Enhancement Supercapcitive Behaviour of Cobalt (II) tetra sulfanilamide Phthalocyanine with composite rGO on modified GCE	Mr. Sharana Kumar T M	AJC	(2020),	-	BITM, BALLARI	-
Synthesis Characterization and Catalytic Activity of Pheripherally Aminonaphthofuran Substituted Co(II) Pthalocyanin for Oxidation of 2-amino-4-chlorophenol	Dr. Suresh	JSR Journal,	(2020),	-	BITM, BALLARI	-
Electro Catalytic Activity Studies of Orthophynelenediamine: Substituted Co(II) Pthalocyanin on Modified GCE.	Dr. Suresh	JSR Journal,	(2020),	-	BITM, BALLARI	-
New Peripherally Tetra-1-amino-2-napthaol-4-sulfonic acid substituted Co(II) Phthalocyanine: Synthesis, Characterization and Electro catalytic Studies on the Oxidation of o-Aminophenol.	Dr. Suresh	JSR Journal,	(2020),	-	BITM, BALLARI	-

### h-index of the Institutional Publications during the year. (Based on Scopus/ Web of science)

ELECTRONICS AND COMMUNICATIONS ENGINEERING						
Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the publication
A simplified machine learning approach for recognizing human activity	Dr. Abdul Lateef Haroon P S	International Journal of Electrical and Computer Engineering (IJECE)	Oct-19	3	12	BITM,Ballari
MECHANICAL ENGINEERING						

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the publication
Performance evaluation of AI-MWCNT based Automobile Radiator	Dr. Raju Jadar	Elsevier: Materials today Proceedings	2019	3	5	BITM, Ballari
Defect reduction in a capacitor manufacturing process through six sigma concept: A case study	Dr, Yadavalli Basavaraj	Management Science Letters	2019	5	9	BITM, Ballari

**PHYSICS**

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the publication
<u>Polypyrrole–Tantalum disulfide composite: An efficient material for fabrication of room temperature operable humidity sensor</u>	Machappa T and Sunil Kumar A	Sensors and Actuators A: Physical	2019	5	7	VTURC, Department of Physics, Ballari Institute of Technology and Management , Karnataka - 583104, India
<u>A tungsten disulphide–polypyrrole composite-based humidity sensor at room temperature</u>	Machappa T and Sunil Kumar A	Bulletin of Materials Science	2019	5	3	Department of Physics, VTURC, Ballari Institute of Technology and Management , Ballari,



**Faculty participation in Seminars/Conferences and Symposia during the year: 2019-20**

No. of Faculty	International level	National level	State level	Local level
<b>Attended Seminars/ Workshops</b>	18	296	34	18
<b>Presented papers</b>	6	7	0	0
<b>Resource Persons</b>	0	3	0	2

**Professional development /administrative training programs organized by the institution for teaching and non-teaching staff: 04**

**No. of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP) (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.): 18**

**Procedure for Infrastructure Management and Administration Process:**

The infrastructure management process can be divided into two sub-processes consisting to have processes for each activity.

- I. Infrastructure Maintenance
- II. General Administration

**INFRASTRUCTURE MAINTENANCE****PURPOSE**

- > To ensure availability of Electricity and Water in BITM campus.
- > To have a procedure for maintenance activities. Maintain Water and Electric equipment.
- > Ensure timely availability of Medical Facilities and First Aid Kit.
- > To maintain Hostel and Guest house facilities.
- > Fire Extinguishers, Theft, Insurance, etc.

**PROCESS FLOW**

Input > Plan for Electrical, Water, STP & House keeping

Resources / enablers > Preventive maintenance activities and actions

Output > Availability of facilities

**PROCESS****Planning**

Head of Maintenance maintains List of Equipments - Water sources, Electrical distribution systems, Hospital tie ups and plans for the maintenance through internal or external agencies.

**Maintenance of Electricity**

- a) Uninterrupted electric supply is ensured through power house with feeders for institution and total BITM campus.
- b) DG sets are of "Auto start" in nature, which run and shut down based
- c) On the non-availability /resumption of KEB supply and it is connected to essential loads identified.

- d) Computer labs are supported by UPS.
  - e) The power house is manned, round the clock on a shift basis. Procurement of diesel is on need based, based on an average consumption in the past.
  - f) Generator Maintenance Log book is maintained for the running and servicing of the generators.
  - g) Consumption of diesel per running hour is maintained in the logbook and same is monitored monthly.
  - h) Generators are operated as per manufacturers manual.
  - i) Stand-by powerhouse comes into operation under two conditions
- 1) Routine power shut downs: When shut down of power is known / intimated w.r.t time and duration, the generator is starts as soon as power fails to ensure uninterrupted or minimum break of power.
  - 2) Power breakdowns: When sudden break down of power occurs from KPTCL supply, the generator starts as soon as power fails to ensure uninterrupted or minimum break of power.

**Planned Maintenance:**

- a) An annual preventive maintenance record is drawn by the head of maintenance taking into the consideration the sub stations, various feeder units, electrical appliances and UPS in the Institute.
- b) These are maintained through service providers / appointed staff for maintenance and records of the same are maintained through the service reports provided.
- c) Waste management is to be organized, ensuring bins for various types of wastes and disposing them off periodically with the help of the city corporation.

**Breakdown Maintenance:**

- a) Breakdown maintenance is maintained for registering breakdown and complaints.
- b) Records/Documents/Files related to Electricity breakdown shall be maintained separately by Electrical Maintenance Department using the same form.
- c) Priorities are given based on the area of activity and importance.
- d) After attending to breakdowns the entries are closed with corrections and solutions provided and confirmations are recorded.
- e) Incident Reports giving details of occurred incidents and action taken for future use is maintained.

**Maintenance of Water Supply:**

- a) Water supply to the Campus is from Bore wells and open wells.
- b) List of Motors, are maintained by head of Maintenance with the Rating and SL No of the motors.
- c) The quality of Water is checked once in six months and records maintained in files.
- d) Water supply timings to the overhead tanks / buildings are pre-determined and followed.
- e) Spare pumps are maintained for critical lines in starve.
- f) Based on the plan maintenance is carried out on Pumps and bore wells and records are maintained.
- g) Cleaning of tanks and chlorination is done on need basis and the details are maintained.
- h) Maintenance of water supply to various points (Plumbing) is carried out by appointed staff and maintain the maintenance record, including the stock, used and remaining to maintain minimum stock level.

**Maintenance of Medical Facilities:**

- a) Maintain First aid kit made available in all floors/areas/departments in centralized and identified area.
- b) List of Medicines available in First aid kit with expiry date and other necessary details are maintained.
- c) Always display emergency numbers in every notice boards and update regularly if there are changes.
- d) Make avail of Ambulance/any vehicle in a campus for emergency and other situations.
- e) In house dispensary is maintained along with necessary equipment, a full time doctor along with a nurse for assistance.

**Maintenance of Buildings**

- a) Ensure that the Buildings, Guest House and Hostels premises are maintained clean, neat and hygienic.
- b) Ensure that they are periodically painted and washed, in case of any problems with buildings, are attended to promptly.
- c) Ensure that furniture & other accessories like Black Boards, White Boards etc., are periodically maintained, by polishing and repairing.

**Housekeeping**

Housekeeping is managed through adequate controls and records as required for ensuring cleanliness. Records of housekeeping personnel are maintained by HR process.

**Reviewing the Plans**

Monitor the policies and programmes for compliances and bring about corrective actions.

**Capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,**

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
1) Soft skills training and development programme	8 <sup>th</sup> January to 27 <sup>th</sup> January 2020 (CSE and ECE)	322	Innovation Unlimited, Bengaluru and Skill Factory, Hyderabad.
2) Soft skills training and development programme	29 <sup>th</sup> January to 14 <sup>th</sup> February 2020 (EEE and ME)	207	Innovation Unlimited, Bengaluru and Skill Factory, Hyderabad.
3) English Communication training via ELL Scholar Software in the Language Lab for the First year B.E students		611	BITM FACULTY

**Collaborative activities for research, faculty exchange, student exchange during the year**

Nature of activity	Participant	Source of financial support	Duration in day
World Edu Summit	Y. J. Prithviraj Bhupal	Internal and External Sponsors	1
International Conference on Business, Management Entrepreneurship in collaboration with Dhaka International University	MBA Staff	Internal and External Sponsors	1

**Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year**

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
<b>CIVIL ENGINEERING</b>				
Training	Internship	PWD, BALLARI	06/07/2019 - 07/08/2019	16
Training	Internship	Nirmithi Kendra, Ballari	06/07/2019 - 07/08/2019	20
Training	Internship	NMDC, Donimalai	06/07/2019 - 07/08/2019	4
Training	Internship	PTC, Ballari	06/07/2019 - 07/08/2019	7
Training	Internship	MS Revolutions, Hosapete	06/07/2019 - 07/08/2019	8
Training	Internship	Sky Tech Constructions, Ballari	06/07/2019 - 07/08/2019	4
Training	Internship	Ballari Constructions, Ballari	06/07/2019 - 07/08/2019	4
Training	Internship	Smart Civil Solutions, Ballari	06/07/2019 - 07/08/2019	38
Training	Internship	Ideal Ventures, Hubli	06/07/2019 - 07/08/2019	4
<b>COMPUTER SCIENCE AND ENGINEERING</b>				
Internship	Java, SQL, JDBC	Qspiders Campus Connect	10/01/2020 to 10/02/2020	75
<b>MECHANICAL ENGINEERING</b>				
On Job Training	NX11	Harita Techserv Ltd.	04.08.2019 to 30.11.2019	116
On Job Training & Internship	CATIA	Harita Techserv Ltd.	23.01.2020 to 21.02.2020	60

**MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year**

Organisation	Date of	Purpose and Activities	Number of students/teachers
--------------	---------	------------------------	-----------------------------

	MoU signed		participated under MoUs
<b>CIVIL ENGINEERING</b>			
IDIGYSYS	01-09-2020	To provide Technical services, structural designs, Quality control and various consultancy work in the field of civil engineering.	20
NHAI	14-07-2020	NHAI Facilitate the faculty, researchers & students of the institute to familiarize with the latest trends in the transportation sector.	20
<b>COMPUTER SCIENCE AND ENGINEERING</b>			
Automation Anywhere University	01-06-2019	Automation Anywhere University Talent Development Program Robotic Process Automation Training for Essential Level Certification from 6th to 10th August 2019	164
		Automation Anywhere University Talent Development Program Robotic Process Automation Training for Essential Level Certification from 23rd to 28th August 2019	
		Automation Anywhere University Talent Development Program Robotic Process Automation Training for Essential Level Certification from 11th to 13th February 2020	

### Scholarships and Awards

Deserving students of BITM get the benefit of scholarships and awards, based on their performance. They can even apply for fee concession on a prescribed form.

### Scholarships and Financial Support

	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution	Institutional Scholarship	40	3,88,900/-
Financial support from other sources			
a) National	Government Scholarship (OBC/SC/ST)	2135*	5,57,30,859/-
b) International			

\* Figures as on 04.11.2020 (still yet to receive SC, ST scholarship)

**Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year**

Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
1) To be Future Ready- The TCS Way	596	596	26	356
2) Seminar on Satellites by ISRO	182	182	--	--
3) Higher Studies and Placement Session Awareness Program	150	150	26	101

**Activity of Student CRs:**

The College creates a platform for the active participation of the students in the various academic and administrative bodies including other activities. This empowers the students in gaining leadership qualities, rules, regulations and execution skills.

Selection, Constitution, Activities and Funding

- .. Class representatives will be selected from each section from 1<sup>st</sup> year to Final year.
- .. The student representative brings forward the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class.
- .. The student representatives share ideas and interact with lecturers and principals.
- .. The student representatives also help to raise funds for activities including Social events, Community projects, helping people in need and college reforms
- .. Various programs like paper presentations, workshops and Seminars are organized by these bodies every year.

The funding for various activities of the internal college bodies is provided by the College Management.

Students part of IQAC, Cultural Committee and Hostel Committee.

**Training, Placement, Higher Education & Competitive Examinations:**

Institution has successfully placed **356** students for the current academic year in top rated companies. This placement is the highest in the Hyderabad Karnataka Region.

The institution promotes and encourage the students to pursue higher education in India and abroad for the current academic year **5** students opted for higher education through PG-CET, GATE, GRE and IELTS.

Competitive exams: The institution provides competitive exams training for the students aspiring for central and state government jobs. **12** students have successfully cleared the competitive exams.

**Sports and cultural activities / competitions**

### Sports Activities

- \* A modern Sports Complex at the college to enable students participate in Sports & Games of their choice and to encourage the students to participate in different Youth Festivals, University Level, State Level tournaments, etc.

BITM not only holds itself as a centre for learning. But also encourages recreation as a part of the overall wellbeing of its students. A playing field adorns the BITM campus where sports such as Football, Cricket, Volleyball, Tennis and Basketball are given prime importance, for the students to take part in inter-collegiate and VTU tournaments, which are also organized. BITM also has a well-equipped gym, which opens at 6.00 am for the health conscious early birds.

– Sports and cultural activities / competitions organised at the institution level during the year

Date of Event	Name of the event/activity	No. of Participants
2019	VTU Basketball- Men's - Zonal Level	130

### BITM Alumni Association

#### BITM Alumni Association Registered

BITM Alumni Association is a **Registered under the Karnataka Societies Registration Act 21 of 1960, under Registration No. BLY S287/2015-16, Dated 14.12.2015** and its office is located at BITM Campus.

#### The Aims and Objectives

- A. To provide a forum for the old students of the College to meet and discuss the matters of common interest.
- B. To promote the interests of the College and its past and present students.
- C. To promote goodwill and mutual assistance among the members.
- D. To contribute to the cause of technical education by sharing the experience of those in the field.
- E. To help the authorities to improve the academic and cultural activities of the college.
- F. To co-operate with the students in literary, cultural and sports activities of the college.
- G. To help the members in employment and service matters without interfering in the policies of their employers.
- H. To arrange and conduct Programmes of general and technical nature.
- I. To co- operate with other such bodies for the same ends.
- J. To promote other matters beneficial to prospects of the association.
- K. To extend financial help to economically backward and deserving students in form of scholarship for UG and PG of the institution.
- L. Any other activities that the general body may decide from time to time.

**In this academic year 510** alumni students were enrolled.

Meetings / Activities organized by Alumni Association: **03**

#### Alumni Meet

MEETING WAS ORGANIZED BY BITM ALUMNI ASSOCIATION(R) DURING THE YEAR  
2019-20.

ONLINE ALUMNI MEET NAMELY PUNARMILANA WAS ORGANISED ON 14.12.2019

### CENTRAL LIBRARY (KNOWLEDGE CENTRE)

The Central Library is one of the central pillars of the institute it is also known as Knowledge Centre. The library is housed in the cellar of the admin block, it is the life line of academic activities of the Institute. The library stretches over an area of 1100.96 Sq. Mts. with a seating space of about 500 members. Library is kept Open from 09 A.M to 10 PM on all working days, in Vacations from 09 am to 5:30 pm.

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
<b>Text Books</b>	98487	2,30,37,808	585	2,60,758	99072	2,32,98,566
<b>Reference Books</b>	9504	24,29,137	150	47,193	9654	24,76,330
<b>e-Books</b>	222	4,60,000	11111	-	11333	4,60,000
<b>Journals</b>	448	24,00,300	30	88,840	478	24,09,140
<b>e-Journals</b>	8288	1,68,91,366	1681	28,09,000	9969	1,97,00,366
<b>Digital Database</b>	6	-	5	-	11	-
<b>CD &amp; Video</b>	3772	-	5	-	3777	-
<b>Library automation</b>	1	1,17,000	1	1,45,140	1	2,62,140
<b>Weeding (Hard &amp; Soft)</b>	2751	9,06,357	6763	13,573	9514	9,19,930
<b>Others (specify)</b>	-	-	-	-	-	-

- The library has a collection of 98487 **volumes** of Books with 9504 **Titles** on Engineering, Management and Humanities. Library subscribed to **Print Journals** and **packages of e-journals** through VTU Consortium are subscribed. Library collection as per AICTE norms.
- Availability of special Collection of Books like Dictionaries, Hand Books, Encyclopaedia, and for competitive exams GATE, GRE, TOFEL etc.
- Old Question papers are maintained for reference for Staff and Students.
- Library is fully atomized with Easylib software and collections are Barcoded. All library transaction are through software.
- The library follows OPEN access systems where students can choose their Book. It facilitates the users to browse and pick up the documents of their choice without any hindrance.
- E-Journals: IEEE-IEL, Taylor & Francis, ASCE, ASME, ProQuest, Knimbus-Digital Library, Knimbus-Remote access, Kopykitb, Sententia and Springer. Library facilitates Training / Awareness about and access to e-journals by experts. All the e-resources are multiuser based on IP addresses of the Institute.
- E-books: Springer and Taylor & Francis total collection of books e-books would be downloaded from internet through dedicated Central Computing Centre.
- Digital library upgraded with data of VTU & NPTEL Video lectures, and PDF from VTU E-learning, Mysuru.
- Library has 24x7 Security systems with closed Circuit Television System (CCTV).



**Facilities at BITM**

- \* 943 Nos. Computers have been provided in all the Depts./ Labs with LAN System. 180 MBPS Leased line Internet with Wi-Fi facilities to all the staff & students.
- \* Parent Interaction Cell, which provides the information about the performance of their ward on regular basis. Regular meeting with Parents are conducted by all the departments.
- \* Transport facility, which provides with fleet 15 College Buses.
- \* ISTE Chapter for Staff & Students, Seminar Hall with audio visual aids and VTU EDUSAT Program.
- \* Staff Development Programs and Personal Development & Career Guidance Programs for the students by inviting the experts as Resource Persons in the relevant field.
- \* The Training & Placement Cell endeavors to arrange Industry – Institution Interaction. Various industries have conducted campus interviews and selected many students. like; Infosys Ltd., HCL, L&T, JSW, etc.
- \* NSS Unit & Cultural activities organized by the College & University.
- \* Separate hostels for Boys & Girls.
- \* Medical Centre with Ambulance facility.
- \* Canteen: The Canteen in the campus serves hygienic food and is open on all working days.
- \* Transportation: With a fleet of 17 buses, BITM offers convenient transport facilities for students to avail.

**Faculty Empowerment Strategies**

**Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year 2019-20**

Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
Mrs. Prathibha Mishra	International conference on DISC-2020	JBIET, Hyderabad	6,000
Mrs. Shenaz Begum S	International conference on DISC-2020	JBIET, Hyderabad	6,000
Mr. Md. Shafiulla - CSE Dept.	Wipro certified faculty training	Wipro Bengaluru	19,834
Mr. Azar Baig M. - CSE	Wipro certified faculty training	Wipro Bengaluru	19,834
Dr. Yeresime Suresh - CSE	ICECMSN 2020	Sir MVIT, Bengaluru	6,860
Mr. Jagadish R.M CSE Dept.	TTT PROGRAM BY AAU.	Automation Anywhere University, Bengaluru	6,873
Mr. Azar Baig M. - CSE	TTT PROGRAM BY AAU.	Automation Anywhere University, Bengaluru	6,873

Mrs. Shenaz Begum S	TTT PROGRAM BY AAU.	Automation Anywhere University, Bengaluru	6,206
Dr. Yeresime Suresh - CSE	E-Learning	VTU KALABURGI	2,073
Dr. Rajshree V.Biradar	Machine Learning Using Python	Amrita Vishwa Vidyapeetham, Mysuru campus	2,130
Prof. C.K. Srinivas.	"Machine Learning with Python"	AIT BANGLORE	5,100
Prof. C.K. Srinivas.	"Machine Learning with Python"	AIT BANGLORE	5,100
JAGADEVI P	"Machine Learning with Python"	SJBIT Bangalore	2,445
Mr. P. Paniram Prasad	Paper presentation	NCIIT	1,621
Prof. C.K. Srinivas.	Paper presentation	NCIIT	1,621
Mr. Sridhar S.K.	ICACT-2020, Bengaluru	ICACT-2020, Bengaluru	4,000
CSE STAFF	FDP fee paid (28 Nos. staff) VTU workshop on "Exemplary Practices in Teaching-Learning and Evaluation in courses of CS & IT"	VTU Kalburgi	2,800
Sagar T V	Three Days State Level Workshop on Advance VLSI design & Cadence Tool	RYMEC ,Ballari	300
Pramod Mutalik	Three Days State Level Workshop on Advance VLSI design & Cadence Tool	RYMEC ,Ballari	300
Srikanth K M	Three Days State Level Workshop on Advance VLSI design & Cadence Tool	RYMEC ,Ballari	300
H Shiva Basavaraj	Three Days State Level Workshop on Advance VLSI design & Cadence Tool	RYMEC ,Ballari	300
Veeresh K M	Three Days State Level Workshop on Advance VLSI design & Cadence Tool	RYMEC ,Ballari	300
Vijayakrishna	FDP on NPTEL Course-Accreditation and OBE	NPTEL ,Bangalore	2,321
Chandan K R	FDP on NPTEL Course-Micro grids at Bangalore	NPTEL ,Bangalore	4,104
Sharana Reddy	FDP on NPTEL Course-Accreditation and OBE	NPTEL ,Bangalore	2,539
Nandini Patil	FDP on NPTEL Course-Accreditation and OBE	NPTEL ,Bangalore	2,800
Santhosh B M	FDP on NPTEL Course-Accreditation and OBE	NPTEL ,Bangalore	2,035.5
Santhosh B M	FDP on NPTEL Course-Developing Soft skills and Personality	NPTEL ,Bangalore	2,035.5
Kamal Kishore	FDP On Students Induction program	SVCE Bangalore	6,487.5
Sridhar SM	FDP On Students Induction program	SVCE Bangalore	6,487.5
Chandan K R	FDP On Students Induction program	SVCE Bangalore	6,487.5

Prof. Ravi Kumar	One day Faculty Development Program on "Blended Learning Pedagogy using MOOCS"	Indian Institute of Management-Bengaluru.	2,777
Prof Arjun Rao	5 day work shop on "Theory building and Testing using Structural equation Modelling"	GITAM Vishakhapatnam AP	11,434
Dr. Christopher Raj	Research in Social Science using SPSS and R Programming in collaboration with IBM On 22-24 August, 2019,	R.V. Institute of Management Bangalore	6,515
Dr. Yadavalli Basavaraj	Two day national level Workshop on Quality enhancement measures in higher, technical professional and management educational institutions with special focus on NIRF India Rankings - 2020	JNTU, Hyderabad	5,845
H.M. Anil Kumar	One day workshop on Friction Stir Welding Technology	Indian Institute of Welding, Chennai	1,180
Maharaja Gowda	3 <sup>rd</sup> International conference on recent research emerging trends in materials and mechanical engineering (ICRRETMME 2019)	Reva University, Bangalore	2,350
Rajashekar Kuntanal	3 <sup>rd</sup> International conference on recent research emerging trends in materials and mechanical engineering (ICRRETMME 2019)	Reva University, Bangalore	2,350
Gavisiddesha P	Workshop on "Research Methodology and Latex	DBIT, Bangalore	2,440
Pavan B S	Workshop on Teaching Technique in turbo machines conducted for teachers	VTU-AICTE	1,200
Santosh V. Janmatti	Workshop on "Research Methodology and Latex	VTU, Chikkaballapura (Muddenahalli)	6,000
Dr B Vijay Kumar	THE INDIAN SCIENCE CONGRESS ASSOCIATION	The Indian Science Congress Association	3,771

**Professional development / administrative training programmes organized by the College for teaching and non-teaching staff during the year 2019-20**

Title of the professional development programme organised for teaching staff	Dates (from-to)	No. of participants (Teaching staff)
Five days FDP on "Neural Networks and its Application in Image Processing" organized by dept. of ECE in association with IQAC and IETE	9-01-2020 to 13-01-2020	31
FDP on "Time for nature: Engineered Systems to nurture the nature for the future" organized on line by Civil dept.	11-06-2020	46

One day Cluster level training program on "Importance of E-Resources in Teaching, Learning and Research" organized by Department of Library and Information Centre in collaboration with VTU-Consortium	6-9-2019.	57
---	-----------	----

**Teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year 2019-20**

Title of the professional development programme	Number of teachers who attended	Date and Duration
		(from – to)
FDP on "DC Micro-Grid" by NPTEL	1	01.07.2019 to 30.09.2019
FDP on Finite Element Method for engineers	3	15.07.2019 to 19.07.2019
Faculty Development Programme on "Research and E-Resources"	1	15.07.2019 to 20.07.2019
Seven days "FDP for Student Induction (FDP-SI)" at SVCE, Bangalore, Organized by AICTE.	3	23.07.2019 to 29.07.2019
FDP on Accreditation and OBE by NPTEL	4	01.08.2019 to 31.10.2019
FDP on NPTEL Course-Developing Soft skills and Personality at Bangalore	1	01.08.2019 to 31.10.2019
Faculty Development Programme on "National Level FDP on "HR Analytics"	1	26.08.2019 to 31.08.2019
Cluster Level Training Program on "Importance of e-Resources in Teaching, Learning and Research"	7	06.09.2019 to 06.09.2019
Awareness Program on "e-Learning Initiatives" VTU Regional Centre, Kalburgi(Offline)	1	05.12.2019 to 05.12.2019
FDP on Advances and Applications of Smart System Engineering/Offline	3	16.12.2019 to 28.12.2019
FDP on Control Engineering by NPTEL	2	01.01.2020 to 30.04.2020
5 Days FDP on Neural Networks and its applications in Image Processing/ Technical/Offline	14	09.01.2020 to 13.01.2020
Five days" FDP on "Neural Networks and its Application in Image Processing" organized by dept. of ECE, BITM Ballari in association with IQAC and IETE.	17	09.01.2020 to 13.01.2020
Cluster Level Training Program on "Importance of e-Resources in Teaching, Learning and Research"	4	09.01.2020 to 13.01.2020
AICTE sponsored two weeks FDP on "Hands-on practices of Python"	1	13.01.2020 to 25.01.2020
FDP on Talent Development Program on Robotic Process Automation(Offline)	2	20.01.2020 to 24.01.2020

Faculty Development Programme on "Outcome based Education and NBA Accreditation" RYME College, Ballari,	2	21.01.2020 to 25.01.2020
Faculty Development Programme on "Educational Technology and People alignment for Enhanced Learning" Davanagere ,Karnataka	1	07.02.2020 to 08.02.2020
FDP on Wipro Certified Faculty Program/Offline	3	24.02.2020 to 06.03.2020
Faculty Development Programme on "Research and Role of Ethics in Research" SJBIT Bangalore	2	13.04.2020 to 18.04.2020
Online Refresher Programme on MBA - PPC (MANAGEMENT, BUSINESS, ADMINISTRATION - PRESENT & POST CRISIS)	1	14.04.2020 to 04.05.2020
Short term course on "Use of statistical Tools & Techniques For Social Science Research" Davanagere University	1	20.04.2020 to 23.04.2020
Short Term Training Programme on I5 - INNOVATION, INCUBATION, INTRAPRENEUR, INVENTION & INTELLECTUAL PROPERTY,CHENNAI	1	26.04.2020 to 09.05.2020
Short term online course on "Use of Research and Analytics to write a Good Research Outcome"	1	26.04.2020 to 01.05.2020
FDP on Online college management & online content creation	1	30.04.2020 to 02.05.2020
SEASON-4 Webinars on "THE FUTURE OF EDUCATION, EMPLOYMENT & ENTREPRENEURSHIP"(Online)	1	04.05.2020 to 08.05.2020
Webinar on Achieving Sustainable Concrete Through use of Mineral Admixture	1	08.05.2020 to 08.05.2020
Webinar on Online teaching learning process using ICT tools for education 4.0/Online	1	08.05.2020 to 13.06.2020
FDP on NAAC Awareness Programme for Faculty	1	08.05.2020 to 14.05.2020
Workshop on "Data Analysis & Optimization Techniques by Using Spread sheet" Eshwar College of Engineering, Guntur	1	08.05.2020 to 13.05.2020
FDP on Contemporary Tools and Techniques for Teachers and Researchers in Higher Education: Experience of using Virtual Classrooms	6	09.05.2020 to 09.05.2020
Faculty awareness program on Outcome Based Education(OBE) and NBA Accreditation	1	09.05.2020 to 09.05.2020
FDP on Mechanical behaviour of advanced materials and its scope for engineering applications	1	10.05.2020 to 14.05.2020
Three days free webinar FDP on Digital era of teaching	1	11.05.2020 to 13.05.2020
Webinar on Meter Rail Technology -practice issues	2	11.05.2020 to 15.05.2020
FDP on OBE: A step towards excellence	2	11.05.2020 to 15.05.2020
SEASON-5 Webinars on "THE FUTURE OF SKILLS, EMPLOYMENT & ENTREPRENEURSHIP"	1	11.05.2020 to 15.05.2020
Webinar on "NETWORK SECURITY AND CHALLENGES"	2	11.05.2020 to 11.05.2020

Virtual Faculty Development Program on "Role of teachers in quality enhancement and accreditation"	1	11.05.2020 to 11.05.2020
FDP on OUTCOME BASED EDUCATION: A STEP TOWARDS EXCELLENCE	1	11.05.2020 to 15.05.2020
FDP on Digital Era of Teaching	3	11.05.2020 to 13.05.2020
Webinar on "Digital Marketing 101" Indian Institute of Digital Education	1	12.05.2020 to 12.05.2020
Faculty Development Workshop on "E-LEARNING" Krupanidhi Degree College	2	15.05.2020 to 15.05.2020
Webinar on Performance Based Seismic Design of Structure	1	16.05.2020 to 16.05.2020
Webinar on "ARTIFICIAL INTELLIGENCE - FOUNDATION" (Online)	2	16.05.2020 to 16.05.2020
Short term course on Online "Java Tutorial Course"	1	17.05.2020 to 21.05.2020
Webinar on Graphene- Future material	2	18.05.2020 to 18.05.2020
SEASON-6 Webinars on "FUTURE Tech 2020"(Online)	2	18.05.2020 to 22.05.2020
Webinar on Combustion behaviour in SI and CI engines	1	19.05.2020 to 19.05.2020
Webinar on "RECENT TRENDS IN HIGH PERFORMANCE COMPUTING" (Online)	1	19.05.2020 to 19.05.2020
Webinar on Advanced on OBE- Identifying weaker students and remedial actions	1	21.05.2020 to 21.05.2020
Webinar on Engineering Simulation on Aerospace and Defence Domains	1	21.05.2020 to 21.05.2020
Webinar on Research Methodology	1	21.05.2020 to 21.05.2020
Webinar on "INTRODUCTION TO NLP (Neuro Linguistic Programming)" (Online)	1	21.05.2020 to 21.05.2020
Webcast on "Advanced OBE – Identifying weaker Students and Remedial Actions" (Online)	3	21.05.2020 to 21.05.2020
Webinar on A beginner's guide to electrical and electronics engineers - Practical perceptions/Online	1	21.05.2020 to 23.05.2020
Webinar on Intellectual Property Rights for Engineers	1	21.05.2020 to 21.5.2020
Webinar on Integrity and Ethical Considerations in the Conduct of Research	1	21.05.2020 to 23.05.2020
Webinar on NAAC Accreditation Management System demo	1	21.05.2020 to 23.05.2020
Training course on "WRITING CASE STUDIES, PROJECT PREPARATION& FUNDING OF RESEARCH PROJECTS" Indian Academic Research Association, University of Madras.	1	21.05.2020 to 23.05.2020
FDP on "Technical Teacher's Training"	1	22.05.2020 to 27.05.2020

FDP on Industrial revolution post COVID-19	2	22.05.2020 to 27.05.2020
FDP on Strategic planning and best practices	3	22.05.2020 to 22.05.2020
Webinar on Active learning methodology	1	22.05.2020 to 24.05.2020
Webinar on Advanced on OBE- Identifying weaker students and remedial actions	4	22.05.2020 to 22.05.2020
Webinar on Industry 4.0 and its role in manufacturing	1	22.05.2020 to 23.05.2020
Online Faculty Development Program on "ARTIFICIAL INTELLIGENCE" (Online)	3	22.05.2020 to 26.05.2020
Webinar on NAAC Accreditation Management System Demo	33	22.05.2020 to 22.05.2020
Online FDP on "Artificial Intelligence" RYMEC, Ballari (Online)	3	22.05.2020 to 26.05.2020
Webinar on Advanced on OBE- Identifying weaker students and remedial actions	37	23.05.2020 to 23.05.2020
Webinar on Computing and signal processing in IoT applications/Online	1	23.05.2020 to 27.05.2020
Two weeks FDP on SCILAB	1	23.05.2020 to 05.06.2020
Webinar on CAE driven product design	1	23.05.2020 to 27.05.2020
Webinar on Two dimensional materials for diverse applications	1	23.05.2020 to 23.05.2020
Webinar on basics to advanced topics in 1D NMR spectroscopy	1	23.05.2020 to 23.05.2020
Webinar on Skillset for Effective Classroom Teaching	1	23.05.2020 to 23.05.2020
National Webinar on " Two Dimensional Materials for Diverse Applications	1	23.05.2020 to 23.05.2020
Webinar on Group Discussion	1	24.05.2020 to 24.05.2020
Webinar on Outcome Based Education/Online	1	24.05.2020 to 24.05.2020
FDP on Rehabilitation robots - a practical approach	2	25.05.2020 to 25.05.2020
FDP on Promoting Quality Culture in Technical Institutions	1	25.05.2020 to 29.05.2020
SEASON-7 Webinars on "ACCELERATING INDUSTRY 4.0 – A POST COVID PARADIGM"	3	25.05.2020 to 29.05.2020
Online FDP on "Outcome Based Education"	1	25.05.2020 to 25.05.2020
FDP on Introduction to Machine Learning using Python	2	25.05.2020 to 29.05.2020
FDP on SCILAB-An Open Source Substitute for MATLAB	1	25.05.2020 to 30.05.2020

FDP on Emerging technologies in robotics	1	26.05.2020 to 30.05.2020
FDP on Manufacturing and analysis of advanced materials and engineering structure	2	26.05.2020 to 30.05.2020
Webinar on Genius code- Science of peek performance	1	26.05.2020 to 26.05.2020
Webinar on How to convert your imagination and creativity into realty by additive manufacturing	2	26.05.2020 to 26.05.2020
Short term training Program on Renewable Energy and Utilization Program on Renewable Energy and Utilization	1	26.05.2020 to 30.05.2020
Webinar on Research Technique and challenges	2	26.05.2020 to 28.05.2020
Webinar on "Know the Talent Race"(Online)	2	26.05.2020 to 26.05.2020
Webinar on "Industrial Applications of Data Structures"	1	26.05.2020 to 26.05.2020
Webinar on E resources for digital learning	1	27.05.2020 to 27.05.2020
Webinar on Energy and Innovation	1	27.05.2020 to 27.05.2020
Webinar on Introduction to robotics	1	27.05.2020 to 27.05.2020
Webinar on NAAC Accreditation Management System Demo	8	27.05.2020 to 27.05.2020
Webinar on Online Teaching learning and Online assessment demo	10	27.05.2020 to 27.05.2020
Webinar on Restrained Shrinkage & Thermal Cracking in Concrete	1	27.05.2020 to 27.05.2020
Online Webinar on state of the art research in power systems and drafting research article	1	27.05.2020 to 27.05.2020
FDP on Tribology of Polymeric Composites	1	28.05.2020 to 28.05.2020
Webinar on Engine calibration- introduction to mechanical diesel pump calibration (rotary/distribution type)	1	28.05.2020 to 28.05.2020
Webinar on Intelligent system	1	28.05.2020 to 28.05.2020
Webinar on NAAC accreditation management system for health sciences institutions	7	28.05.2020 to 28.05.2020
Webinar Online Teaching-Learning and Online Assessment Demo/Online	9	28.05.2020 to 28.05.2020
Webinar on Smart manufacturing and the pandemic	1	28.05.2020 to 28.05.2020
Webinar on Solar energy opportunities and management	3	28.05.2020 to 28.05.2020
Webinar on Develop, Execution and Maintenance of EPC Project	1	28.05.2020 to 30.05.2020
Webinar on Socio-Psychological impact of COVID-19 in Academics and its Management	1	28.05.2020 to 28.5.2020



Webinar on Post COVID-19 Science and technology	1	29.05.2020 to 29.05.2020
Webinar on Insights to Industry 4.0	1	29.05.2020 to 29.05.2020
Webinar on NAAC Accreditation Management System Demo	1	29.05.2020 to 29.05.2020
Webinar on NAAC Accreditation Management System Demo	2	29.05.2020 to 29.05.2020
Webinar NAAC Accreditation Management System Demo/Online	1	29.05.2020 to 29.05.2020
Webinar on Outcome based education road-map to E - learning an accreditation	4	29.05.2020 to 29.05.2020
Webinar on Virtual and augmented reality applications for manufacturing and health care	2	29.05.2020 to 29.05.2020
FDP on Current Research Avenues in Civil Engineering	2	29.05.2020 to 31.05.2020
Online Faculty Development Program on Digital Entrepreneurship & Investment (Online)	2	29.05.2020 to 02.06.2020
Online Short Term Course on "Artificial Intelligence Machine Learning and its Applications"	1	29.05.2020 to 02.06.2020
Webinar on Cyber Hygiene	1	29.05.2020 to 29.05.2020
FDP on Advanced materials and engineering structure	1	30.05.2020 to 30.05.2020
Webinar on 3D printing and its applications	1	30.05.2020 to 30.05.2020
Webinar on "Evolution of Machine Learning & Deep Learning"	1	30.05.2020 to 30.05.2020
Webinar on "INDUSTRIAL PROCESS OF SOFTWARE TESTING AND FRAMEWORK"	1	30.05.2020 to 30.05.2020
Webinar on Role of Digital Libraries in Academic Research/Online	1	30.05.2020 to 30.05.2020
Webinar on AI and Data Science/Online	2	30.05.2020 to 30.05.2020
Webinar on Developing new perspective in the era of AI/ML/Online	1	30.05.2020 to 04.06.2020
Webinar on Artificial Intelligence in Civil Engineering	1	30.05.2020 to 30.05.2020
Webinar on Advanced Digital Content Creation Tools and Techniques for Education	1	31.05.2020 to 31.05.2020
Webinar on "Microsoft Azure: Cloud Computing Services"	1	31.05.2020 to 31.05.2020
Webinar on Covid-19 Data Analytics & Mathematical Modelling	1	31.05.2020 to 31.05.2020
FDP on NX Additive Manufacturing	3	01.06.2020 to 01.06.2020
FDP on Computational tools on engineering and research: opportunities and challenges	1	01.06.2020 to 06.06.2020

FDP on Electronics and Data Science	5	01.06.2020 to 06.06.2020
FDP on Emerging Engineering Materials	14	01.06.2020 to 05.06.2020
FDP on technological advances in power switching converters for renewable energy sources and fuel cell technology for E-vehicles	1	01.06.2020 to 05.06.2020
Online FDP on "Advanced Data Structures"	1	01.06.2020 to 11.06.2020
Webinar on Fundamentals of CFD	1	01.06.2020 to 02.06.2020
Webinar on Machine learning in engineering	2	01.06.2020 to 01.06.2020
Faculty Development Program on Electronics and Data Science/Technical/Online	22	01.06.2020 to 06.06.2020
FDP on Technological Advances in Power Switching Converters for Renewable Energy Sources and Fuel Cell Technology for E-vehicles	1	01.06.2020 to 05.06.2020
Webinar on Creating Interactive e-Learning Content	1	01.06.2020 to 01.06.2020
Webinar on WordPress	1	01.06.2020 to 01.06.2020
Webinar on "Paradigm shift in Research and Development" SJB Institute of Technology, Bengaluru, Karnataka.	2	01.06.2020 to 06.06.2020
STTP on Recent Trends & Application of Solar Photovoltaic Energy System	2	02.06.2020 to 06.06.2020
Webinar on star expert IOT Specialist/Online	1	02.06.2020 to 02.06.2020
Webinar on "Become Expert in Python Programming"	1	03.06.2020 to 03.06.2020
FDP on Analytical sciences	1	04.06.2020 to 06.06.2020
FDP on NBA and NAAC accreditation process	3	04.06.2020 to 08.06.2020
FDP on Recent Advances in 3D printing technologies	1	04.06.2020 to 08.06.2020
Webinar on Additive manufacturing-3D printing	2	04.06.2020 to 04.06.2020
Webinar on Manufacturing in current scenario: Industry 4.0	1	04.06.2020 to 04.06.2020
Webinar series by Industrial experts	1	04.06.2020 to 10.06.2020
FDP on Rehabilitation and Retrofitting of Structure	4	04.06.2020 to 06.06.2020
FDP on Writing high-impact research papers, effectively and efficiently	5	04.06.2020 to 06.06.2020
STP on A Smart and Sustainable World in Concrete and structures	2	04.06.2020 to 08.06.2020

Webinar on Machine Learning Model deployment using Flask and other techniques	1	04.06.2020 to 04.06.2020
One Week FDP on "NBA& NAAC accreditation process MSRIT Bengaluru	1	04.06.2020 to 08.06.2020
Webinar on Recent Advances in Material Science and Nanotechnology	1	04.06.2020 to 06.06.2020
FDP on Advancements in materials science	1	05.06.2020 to 06.06.2020
Webinar on Evacuated Tube Solar Collector	1	05.06.2020 to 05.06.2020
Webinar on Fuel cell in automobiles	1	05.06.2020 to 05.06.2020
Webinar on Interrogation in MEMS, NEMS and nano technology	4	05.06.2020 to 05.06.2020
Webinar on Manufacturing's New Normal after COVID-19	1	05.06.2020 to 05.06.2020
Webinar on NAAC accreditation of health sciences institution	1	05.06.2020 to 05.06.2020
Webinar on Recent advances in latent heat based thermal energy storage systems	1	05.06.2020 to 05.06.2020
Webinar on "Environment and Sustainable Development"	1	05.06.2020 to 05.06.2020
Online FDP on "Python Programming"	1	05.06.2020 to 11.06.2020
Webinar on Insightful Fridays of sky campus digital knowledge	2	05.06.2020 to 05.06.2020
Webinar on Need of Eco-Friendly Technology for Better Environment	1	05.06.2020 to 05.06.2020
Webinar on "Consumer social Responsibility", Claret College Bangalore	1	05.06.2020 to 05.06.2020
Webinar on Environment is for all forever	1	06.06.2020 to 06.06.2020
Webinar on Sustainable Manufacturing in Industry 4.0	1	06.06.2020 to 06.06.2020
Webinar on Aim and Planning of In-situ Testing in Concrete Structure	1	06.06.2020 to 06.06.2020
Virtual Faculty Development Program on ANDROID APPLICATION DEVELOPMENT	1	06.06.2020 to 07.06.2020
Webinar on Biodiversity - The Effective Environmental Management System	1	06.06.2020 to 06.06.2020
Webinar on Reengineering the supply chain	1	07.06.2020 to 07.06.2020
FDP on Advanced materials and processing	1	08.06.2020 to 13.06.2020
FDP on Online teaching-learning process using ICT tools for education 4.0	1	08.06.2020 to 13.06.2020
FDP on Online teaching-learning process using ICT tools for education 4.0	1	08.06.2020 to 13.06.2020

Webinar on Industry 4.0	1	08.06.2020 to 12.06.2020
Webinar on Internet of things-concepts and opportunities	1	08.06.2020 to 08.06.2020
Webinar on Online Teaching-learning and Online assessment tools	1	08.06.2020 to 08.06.2020
Webinar on Overview of Graphene - A Prospective Material	14	08.06.2020 to 08.06.2020
Webinar on Supply chain management principles and practices	1	08.06.2020 to 09.06.2020
FDP on Exploring the dimension of Innovation, Incubation and Emerging Technology	1	08.06.2020 to 12.06.2020
Webinar on Multi Model Integration for metro	2	08.06.2020 to 08.06.2020
FDP on Renewable Energy System Comprising of 20 eminent Speakers	3	08.06.2020 to 12.06.2020
STOC on Outcome based Education : NBA ACCREDITATION PROCESS	1	08.06.2020 to 12.06.2020
FDP on Effective Technical Report Writing Using LaTeX	1	08.06.2020 to 09.06.2020
Webinar on "Geotechnics For Disaster Mitigation"	1	08.06.2020 to 13.06.2020
Webinar on "Future of Start-ups in view of Pandemic COVID-19"(Online)	1	08.06.2020 to 08.06.2020
Webinar on "5G Technologies and its Applications"	1	08.06.2020 to 08.06.2020
National Online Workshop on "Data Analysis and Interpretation in Research." Bagalkot, Karnataka.	1	08.06.2020 to 08.06.2020
Faculty Development Programmes on "NAAC Assessment & Accreditation (A&A) for Affiliated Colleges', Vinayakrao Patil Mahavidyalaya, Vaijapur	1	08.06.2020 to 13.06.2020
Webinar on Engine technologies	2	09.06.2020 to 09.06.2020
Webinar on Emerging trends in Data Analytics	1	09.06.2020 to 09.06.2020
Webinar on Maintenance and servicing of refrigerator	1	09.06.2020 to 09.06.2020
Webinar on Research Trends in Thermal Engineering 2020	17	09.06.2020 to 13.06.2020
Webinar on Simulation driven innovation for e-mobility	1	09.06.2020 to 09.06.2020
Webinar on Health Safety and wellbeing of Towers	1	09.06.2020 to 09.06.2020
Training programme on Structure Repairs and Rehabilitation	1	09.06.2020 to 09.06.2020
Webinar on Emerging Trends in Data Analytics	1	09.06.2020 to 09.06.2020
Webinar on "Reinvention of alternative managerial styles" Chennai	1	09.06.2020 to 09.06.2020

FDP on Emerging technologies : Research issues and challenges	1	10.06.2020 to 16.06.2020
Webinar on Digital marketing- a new era	2	10.06.2020 to 10.06.2020
Webinar on Simulation driven innovation for e-mobility	1	10.06.2020 to 10.06.2020
Webinar on :Computational Modelling in Quantum Chemistry(WCMQC 2020)	1	10.06.2020 to 12.06.2020
FDP on Research Trends in Information Technology	5	10.06.2020 to 12.06.2020
Training programme on Modern waterproofing solutions	2	10.06.2020 to 10.06.2020
FDP on Technology Towards Common Man	1	10.06.2020 to 13.06.2020
STTP on State of the art practices in transportation engineering	2	10.06.2020 to 12.06.2020
PRACTICES IN TRANSPORTATION ENGINEERING		
FDP on Technology Towards Common Man	1	10.06.2020 to 13.06.2020
FDP on Moodle Learning Management System	2	10.06.2020 to 15.06.2020
Webinar on Tips for Staying Healthy and Fit Post Lockdown	1	10.06.2020 to 10.06.2020
Webinar on Sustainable Construction	1	11.06.2020 to 12.06.2020
Webinar on Recent Trends in Electronics and Communication Engineering/Online	1	11.06.2020 to 12.06.2020
Webinar on Time for Nature: Engineered Systems to Nurture the Nature for the Future”	1	11.06.2020 to 11.6.2020
Webinar on Application of computational fluid dynamics in aeronautical and aerospace sector	2	12.06.2020 to 12.06.2020
Webinar on Impact of Covid 19 on MSMEs	1	12.06.2020 to 12.06.2020
Webinar on "Winning at all times"	2	12.06.2020 to 12.06.2020
Webinar on : “Research Proposal Writing :Opportunities, Challenges and Myths”	1	12.06.2020 to 12.06.2020
FDP on Role of Technology in a Post Covid World	1	12.06.2020 to 12.6.2020
Faculty Development Programme on “Philosophy for Happy Life” Vizianagaram, Andhra Pradesh	1	12.06.2020 to 16.06.2020
Webinar on Forensics and the Current Challenges	1	13.06.2020 to 13.06.2020
Webinar on Next generation refrigerants	1	13.06.2020 to 13.06.2020
Webinar on Progress of nano materials and its applications in new technologies	1	13.06.2020 to 13.06.2020
Webinar on Research Ethics	1	13.06.2020 to 16.6.2020

Webinar on COVID 19: Yesterday, Today and Tomorrow	1	14.06.2020 to 14.6.2020
FDP on Scilab	1	15.06.2020 to 19.06.2020
Webinar on : "Role of Nanomaterial's in Electrochemical devices and Photo catalysis"	1	15.06.2020 to 15.06.2020
FDP on Advanced Technology in Civil Engineering	6	15.06.2020 to 19.06.2020
Webinar on Therapeutic approaches for targeting Covid-19: Current scenario and future developments	1	15.06.2020 to 15.6.2020
Faculty Development Programme on "Data Analysis using SPSS and writing a Research Proposal" Bengaluru	1	15.06.2020 to 20.06.2020
Faculty Development Programme on "Reskilling using ICT Tools" Chennai	1	15.06.2020 to 21.06.2020
Webinar on "Advance Excel" organized by Pacific Academy of Higher Education and Research University, Udaipur	1	15.06.2020 to 15.06.2020
FDP on A Paradigm shift in Management	4	16.06.2020 to 20.06.2020
FDP on Insights into cutting edge technologies	5	16.06.2020 to 20.06.2020
5 Days online FDP on Insights into cutting Edge technologies/Online	2	16.06.2020 to 20.06.2020
FDP on QCAD & QGIS	5	16.06.2020 to 20.06.2020
Online FDP on "Basic Computer Vision With Python"	1	16.06.2020 to 20.06.2020
Five day FDP on "A Paradigm Shift in Management"	1	16.06.2020 to 20.06.2020
Webinar on Interlinking of Indian Rivers – Boon for Indian Prosperity	1	16.06.2020 to 16.6.2020
Faculty Development Programmes on "The Analytics Edge – Data Visualization using Tableau' DJ ACADEMY	1	16.06.2020 to 17.06.2020
Webinar series on Role and Importance of Pre-incubators and Incubators In Higher Education Institutions and Design Thinking and Innovation	1	17.06.2020 to 19.06.2020
FDP on Advances in Machining process	8	17.06.2020 to 19.06.2020
Symposium on Recent Advance in civil Engineering (RACE-2020)	1	17.06.2020 to 21.06.2020
Webinar on Motivational Cum Career Counselling	1	17.06.2020 to 17.6.2020
Faculty Development Programme on "Academic Writing and Opportunity for the Publication" SNS Rajalaxmi , Coimbatore	1	17.06.2020 to 17.06.2020
Webinar on Online Teaching-Learning and Online Assessment Demo/Online	1	18.06.2020 to 18.06.2020
Faculty Development Programmes on "OUT COME BASED EDUCATION" by Indira college, Pune	1	18.06.2020 to 20.6.2020
Webinar on Publishing Ethics	1	19.06.2020 to 19.06.2020

Webinar on Research in computational material science	1	19.06.2020 to 19.06.2020
Webinar on CO-PO Attainment Computations and Outcomes Analysis/online	1	19.06.2020 to 19.06.2020
Webinar on Applications of Differential Equations	1	19.06.2020 to 19.6.2020
Webinar on Lasers in manufacturing	2	20.06.2020 to 20.06.2020
Webinar on The Impact of COVID-19 on teaching, learning and Evaluation	2	20.06.2020 to 20.06.2020
Webinar on RND experts seminar on Symmetry and group theory for CSIR, UGC NET SLET	1	21.06.2020 to 21.06.2020
A hands on workshop on the Bodhi Tree and SAFE Tools for effective online teaching organized by TLC IIT Bombay	1	21.06.2020 to 21.06.2020
Webinar on Difficulties of Scoring Marks in Exam Part II: Mistakes in General Concepts	1	21.06.2020 to 21.6.2020
FDP on Advances in Composite Materials and Manufacturing process	1	22.06.2020 to 26.06.2020
FDP on Recent Advancements in Mechanical Engineering (RAME 2020)	4	22.06.2020 to 26.06.2020
FDP on Research challenges in mechanical engineering	1	22.06.2020 to 27.06.2020
Short term course on Composite materials and its characterization	1	22.06.2020 to 26.06.2020
Short term training program on How to write thesis and research paper	1	22.06.2020 to 26.06.2020
Webinar on 2D materials for energy storage applications	1	22.06.2020 to 22.06.2020
Webinar on Refrigerants in engineering applications	1	22.06.2020 to 22.06.2020
FDP on Recent Advances in Civil Engineering:	1	22.06.2020 to 24.06.2020
FDP on Recent Advancements in Civil Engineering:	1	22.06.2020 to 27.06.2020
Webinar on Engineering Research- Outcome Based Approach	1	22.06.2020 to 26.06.2020
FDP on e-content preparation & effective presentation of online classes using ICT tools	1	22.06.2020 to 23.6.2020
Faculty Development Programme on Two Week FDP on R Language and R studio Bangalore	1	22.06.2020 to 05.07.2020
Refresher Course on IFRS (International Financial Reporting Standards) Udaipur Rajasthan	1	22.06.2020 to 28.06.2020
Workshop on "Statistical analysis using SPSS software", Bangalore	1	22.06.2020 to 23.06.2020
Webinar on Aspects of Industry 4.0	1	23.06.2020 to 23.06.2020
FDP on Contemporary tools and techniques for teachers and researchers in higher education : Experience of using virtual class rooms	1	23.06.2020 to 27.06.2020

FDP on Foundation Engineering	2	23.06.2020 to 25.06.2020
STTP on "Advances In Technology & Management for Civil Engineering"	1	23.06.2020 to 03.07.2020
Webinar on Science, Technology and Development	1	23.06.2020 to 23.6.2020
Webinar on Significance of Discrete structures through some graph models	3	23.06.2020 to 23.6.2020
FDP on Fracture Mechanics (FM-2020)	1	24.06.2020 to 26.06.2020
Webinar on Fluid Mechanics and its applications in Engineering sciences	2	24.06.2020 to 27.6.2020
FDP on Pavement Design and Construction Rehabilitation	2	25.06.2020 to 27.06.2020
Webinar on Publishing in International Journals of High Repute: Do's and Don'ts	1	25.06.2020 to 25.6.2020
Webinar on Energy management in Building	1	26.06.2020 to 26.06.2020
Faculty Development Programme on Digital Education	1	27.06.2020 to 30.07.2020
National level Webinar on "How To Prepare and Conduct Academic Audit"	1	27.06.2020 to 27.06.2020
Workshop on SWAYAM-NPTEL at BKIT, BHALKI	1	28.06.2020 to 28.06.2020
Short term training program on Professional values, ethics and sustainability development	1	29.06.2020 to 03.07.2020
Webinar on Electrical wire harness design using CATIA V5	3	29.06.2020 to 29.06.2020
Webinar on Role of Communication skills and Personality Development in the present era	4	29.06.2020 to 29.06.2020
FDP on "ECO-ENVIRO Sustainability"	2	29.06.2020 to 03.07.2020
Training programme on "Disaster Risk, Vulnerability Assessment and Management"	1	29.06.2020 to 03.07.2020
FDP on "Advanced E-Learning in Structural Engineering Design Concepts"	1	29.06.2020 to 01.07.2020
Short Term Training Programme (STTP) on "Outcome Based Education & NBA" Thane Mumbai	1	29.06.2020 to 3.07.2020
Webinar on Dynamic analysis and control of rotor bearings	1	30.06.2020 to 30.06.2020
Webinar on Space astronomy	1	30.06.2020 to 30.06.2020
Webinar on Emerging Trends in Civil Engineering	1	30.06.2020 to 02.07.2020
Online Webinar on Dynamic Analysis and Control of Rotor Bearings	1	30.06.2020 to 30.06.2020



**Quality Initiatives undertaken**

<b>Quality initiative</b>	<b>Name of the programs</b>
Live Webinar Series- Faculty Development Program	"Recent Trends in Thermal Engineering-RTTE 2020" - 9 <sup>th</sup> June 2020 to 13 <sup>th</sup> June 2020
One day Live Webinar	Overview of "Graphene"- A Prospective Material - 8 <sup>th</sup> June 2020
Live Webinar Series- Faculty Development Program	"Emerging Engineering Materials" - 1 <sup>st</sup> June 2020 to 5 <sup>th</sup> June 2020
Online Quiz	OBE & NBA, Conducted by Department of Mechanical Engineering - 26 <sup>th</sup> May 2020
Awareness Program	Flexible Manufacturing System for Sanjay Gandhi Polytechnic Students - 4 <sup>th</sup> Feb 2020
One-month Student Development program for final year students	CATIA 3D CAD Experience at BITM, Ballari - 23 <sup>rd</sup> Jan 2020
Interaction Program for Final Year Mechanical Students	Automotive, Construction, Ship Building, Smart city Development with Mr. Nataraj R, CEO, Centre of Excellence in Aerospace & Defence, Govt. of Karnataka and Mr. Chetan Rao S, Centre of Excellence, Aerospace & Defence, VTU-Nagarbhavi, Bangalore - 1 <sup>st</sup> Jan 2020
Technical Talk	"Awareness program on e-Vehicles & Air Pollution", Jointly organized by Mechanical Engineers Forum, BITM, Ballari, Regional Transport Office, Ballari, Karnataka State Pollution Control Board, Ballari - 19 <sup>th</sup> Nov 2019
Mini Project Exhibition	Mini Project Exhibition for Pre-final year students organized by Department of Mechanical Engineering students at BITM, Ballari - 18 <sup>th</sup> Nov 2019
Social Innovation- Ideathon 2019	Social Innovation- Ideathon 2019 organized by Department of Mechanical Engineering & Mechanical Engineers Forum - 6 <sup>th</sup> Nov. 2019
One day Industrial visit	One day Industrial visit for 5 <sup>th</sup> sem. Students to KPTCL Munirabad. - 23 <sup>rd</sup> Oct 2019
One day Industrial visit	One day Industrial visit to Ballari Thermal Power Station for 5 <sup>th</sup> sem. students. - 21 <sup>st</sup> Oct 2019
One day Industrial visit	One day Industrial visit to Boruka hydro power plant, Koppal for 5 <sup>th</sup> sem. students. 16 <sup>th</sup> Oct 2019
Workshop	Overview of Selecting, Preparation for project work & seminar for final year Mechanical Engineering Students. - 12 <sup>th</sup> Sep 2019
REVIVING INGENUITY	REVIVING INGENUITY - 06/11/2020 to 13/11/2020
3 day webinar	Revisiting Management during COVID-19 Crisis: Challenges and Opportunities - 1 <sup>st</sup> June 2020 - 3 <sup>rd</sup> June 2020
Trends and Careers	Mobile Ad-Tech Industry - 10 <sup>th</sup> June 2020
Technical Skill Training	Technical Skill Training - 10 <sup>th</sup> January 2020
Skill UP C++	Skill UP C++ - 26 <sup>th</sup> February 2020
Training	Robotic Process Automation for Essential Level of Certification - 2 <sup>nd</sup> March 2020

Sparkle – C	Sparkle – C - 01 <sup>st</sup> August 2019 to 07 <sup>th</sup> August 2019
Time for Nature	Engineered Systems to nurture the nature for the Future - 11 <sup>th</sup> June 2020
Bio Diversity	The effective Environment management system 06 <sup>th</sup> July 2020
Faculty Development Programme	Electronics & Data Science - 01 <sup>st</sup> June 2020 to 06 <sup>th</sup> June 2020
Application of Mat lab / Simulink	Power Electronics Power systems & Control systems - 09 <sup>th</sup> November 2019

### Best Practices

- Detailed Academic Calendar defined in the beginning of the semester circulated and displayed.
- Continuous Evaluation of Academic performance of the students.
- System of Student Feedback and follow up.
- Academically weak students are given special attention individually by the proctors.
- Remedial classes are conducted for Academically Weak students.
- Innovative teaching methods are implemented through usage of Blooms Taxonomy, Learning Styles and combination of modern teaching and pedagogic methods.
- Course out comes are prepared and circulated to the students.
- Maximum emphasis for completion of Syllabus and effective Delivery through Quiz s, Group Discussion, Demonstration, Industrial Visits
- Usage of modern Teaching Aids such as Projector and High End Televisions.
- Contents beyond the syllabus through Design Based Experiments, Guest Lectures, Industry Oriented Programs etc.
- **Link <http://www.bitm.edu.in> awards achievements**

### Institutional Distinctiveness

#### ACCREDITATION

- An ISO 9001 2015 Certified Institution by Intertek
- NAAC Accredited Institution from 2015 to 2020 for a period of 5years
- NBA Accredited for CSE, ECE and ME from 01st July 2019 to 30th June 2022

#### Ratings and Rankings

- BITM is Rated AAA by Careers360 Magazine India s Best Engg College for 2016 Issue.
- BITM Is Rated \*\*\*\* by Career Connect Magazine April 2016 Issue.
- MBA Dept. is Ranked 41st Best B School Higher Education Review Magazine beyond IIMSS School Survey April 2016 Issue.
- MBA Dept. is Ranked 34th Best B School and Ranked 8th in Top B Schools with Best Return on Investment ROI by Silicon India Magazine All India B Scholl Ranking 2016 March2016 Issue.
- Ranked 40th in Top 100 Engineering Colleges in India Silicon India Education June 2015.
- Ranked 6th in Top 10 Private Colleges in Karnataka Silicon India Education June 2015.
- Ranked 37th Best in India by The Higher Education Review May 2015 Issue.
- Rated “AAA ”in the State “CAREERS 360 ”Magazine India s Best Engineering Colleges April 2015 issue.
- MBA BITM is ranked 75th Best in India by Higher Education Review Magazine in Beyond IIMs Survey 2015.

- Ranked 15th Best in Karnataka by Edu rand Magazine.
- Ranked 96th Best in India as per Outlook Survey July 2013.

**\*\* \*\* \***

**Decentralization in Working:**

The Institute functions with decentralize administration that has complete transparency in the decision making process. The Governing council / body has clearly delegated the powers to the Principal with respect to institutional development, academics, curricular, co-curricular & extracurricular activities. The Principal in-line with the Vision and Mission has dedicated powers to the HOD's and concerned office staff. The head of the department along with the principal meet very frequently to discuss academic and administrative matters and take appropriate decisions. The principal, Vice-Principal and HOD's are delegated with adequate powers for the overall development of the institution. The same is evidenced in the organization chart.

The principal & HOD's have constituted 29 committees in consultation with Management for smooth functioning of the institute. Each committee consists of members from all the departments, who meet frequently to carry out the duties as per the functions and responsibilities of the committee. The coordinator of the committee briefs the Principal and HOD's on important decisions for the growth of the institution.

**Participative Management:**

The Institution has participative management at all levels. The management takes the important decision based on the input from the Principal, Vice Principal, HOD's and committees' coordinators. Principal discusses important issues with the HOD's and the same is appraised to the management. All the academic and administrative issues like, Budget, Recruitment, Purchases, Admissions, Promotions, Conferences, Training & Placement, variation in intake are discussed transparently and appropriate decisions are taken for implementation.

**TOWN HALL MEETINGS:** Town hall meetings is one of the case study to illustrate the decentralization and participative management.

Beginning of each academic year / semester Management conducts meeting with all the teaching and non-teaching staff in the institution auditorium. The objective of the town hall meeting is to reflect back the previous academic year achievements and scope of improvements. The present status stock is taken and deliberated on strategies, requirements, scope and opportunities and create a road map to achieve the vision of the institute. All the members are given opportunity to express their views & suggestions concerning the institute.

As on today 6 town hall meetings are held in the last five years and most of the decisions taken during the meeting have been implemented successfully after consulting faculty, students, industry, alumni and parents. Some of the important accomplishments in last five year are:

- > NBA Re-Accreditation for CSE, ECE and ME.
- > Setting up of Incubation Centre.
- > State of the art New Electrical Block, Laboratories, Research Centres.
- > **Collaboration / MoU with IBM, Harita TechServ., NI-Lab View & etc.**
- > Improvement in Teaching Learning process.
- > Placement improvement through Career Guidance and effective training plan.
- > Implementation of proctoring system followed by Real-time Attendance intimation system (SMS based).
- > Implementation of Rooftop Solar Power.
- > Town Hall Meetings.

**The Institution Has Effective Welfare Measures for Teaching And Non-Teaching Staff**

- > Employee's Provident Fund
- > Accident Insurance
- > Obituary Contingency
- > Fee Concession
- > Uniform Facility
- > Medical Facility
- > Salary Advance Amount
- > Career Growth
- > ESIC
- > Gratuity
- > Maternity Leave
- > Promotions
- > Publication Incentives
- > Ph.D. Contingency
- > Staff Association
- > Bank & ATM Facility

**Internal Quality Assurance Cell (IQAC)**

The IQAC of the institution was constituted which consists of 25-member committee, Principal as a Chairman and representatives from staff and students. The Academic Audit of the Departments is conducted by Internal Quality Assurance Cell (IQAC) and its objective is to improve and sustain the academic and administrative performance of the Institution. Academic Audit is conducted by IQAC once in a semester. IQAC will be evaluating the Departments on the following Criteria.

**1. IMPLEMENTATION OF OBE AND OBTAINING NBA****2. ESTABLISHMENT OF STARTUP & INCUBATION CENTRE (BRICS)**

The institution has an IQAC, which assess the teaching and learning process in the institute and recommend the steps to be taken for improvements.

1. Improved the Graduation Results
2. Enhanced employability by implementing personality development programs, value added certificate courses
3. Value Added Certificate Courses to bridge the gap in curriculum.
4. Improvement in R and D Activity
5. MoU with IBM and Harita Techserv (A unit of TVS Group)

Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year:

S. No	Plan of Action	Achievements / Outcomes
1	To increase the admissions	The admissions for the year 2019-20 has increased by one percent comparing to the previous year
2	To recruit faculty with Ph.D. qualification	Recruited five doctorates during the year 2019-20
3	To enhance Results	Results of final year is improved by 5.5% compared to previous year
4	To Place more than 300 students	Placed 356 students in reputed National & International Companies during the year 2019-20
5	NAAC SSR preparation for 2nd Cycle Accreditation	Successfully submitted SSR to NAAC authorities for 2nd Cycle

6	Planned to conduct Quality Enhance Programs	Twenty-Four Quality Enhance Programs conducted across all the departments during the year 2019-20
---	---	---

**Extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year**

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers co-ordinated such activities	Number of students participated in such activities
NSS/ Youth Red Cross(YRC)Volunteer Blood Donation camp & Blood group	VIMS Ballari/Red Ribbon Club / YRCS District AIDS Prevention & Control Unit DAPCO officer	45	490
International Yoga Day	BITM NSS Unit	50	176
Awareness program on Health and Nutrition	BITM NSS Unit	30	269
Helping hands to orphanage	BITM NSS Unit	45	67
World Environment Day	BITM NSS Unit	25	256
World no Tobacco day	BITM NSS Unit	5	48
Swacch Bharath	BITM NSS Unit	10	387
World Aids Day	BITM NSS Unit	12	146

**Awards and recognition received for extension activities from Government and other recognized bodies during the year 2019-20**

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
NSS/ Youth Red Cross(YRC)	VIMS Ballari/Red Ribbon Club /YRCS	1	239
Volunteer Blood Donation camp & Blood group	District AIDS Prevention & Control Unit DAPCO officer		
NSS Unit college staff and students	AICTE Certificate of Appreciation	1	350

**Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year**

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated such activities	Number of students participated in such activities
NSS	NSS Unit college staff and students	"Constitution Day "26.11.2019	150	600
NSS	NSS Unit college staff and students	'Mission Sahasi" 31.10.2019	10	550

NSS	NSS Unit college staff and students	Usage of Plastic on Pollution Awareness Programme 15.10.2019 & 16.10.2019	5	30
NSS	NSS Volunteers staff and students	150 <sup>th</sup> Mahatma Gandhi Jayanthi Swatch Bharath 02.10.2019	15	95
NSS	NSS Volunteers staff and students	"Electoral Verification Awareness Programme "26.09.2019	10	800
NSS	NSS Volunteers staff and students	"One Student, One Tree Campaign". 30.08.2019	25	350
NSS-D.A.R.E.	Girls Hostel students and NSS Girls students / Volunteers that MSPL Limited, team are organized a Work shop	Defence Against Rape And Eve Teasing	8	555

\*\*\* \*\* \*\*\*



Principal  
Ballari Institute of Technology & Management  
BELLARY