

ANNUAL REPORT

FOR THE ACADEMIC YEAR 2020-21



BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTUH & Approved by AICTE)

Mangalpally (Village), Ibrahimpatnam (Mandal), Ranga Reddy (District), Telangana-501510

Vision

To achieve the Autonomous & University status and spread universal education by inculcating discipline, character and knowledge into the young minds and mould them into enlightened citizens.

Mission

To impart high quality education, in a conducive ambience, as comprehensive as possible, with the support of all the modern technologies and make the students acquire the ability and passion to work wisely, creatively and effectively for the betterment of our society.

Quality Policy

Bharat Institute of Engineering & Technology (BIET), is engaged in imparting quality “Education and Training” in the field of "Engineering and Technology". It aims to be an Institute of Excellence in Technical Education through continual improvement. The institute facilitates faculty and staff to work as a team and update their knowledge and skill to match the industrial and technological development.

Hall Marks of BIET

- BIET boasts of well experienced and highly qualified faculty, state-of-the-art infrastructure, regular placements and well equipped laboratories. The institute has eminent professors from renowned organizations like DRDO, DRDL, DLRL, RCI, BDL, BHEL, ECIL, JNTU, OU, IITS etc.
- To evolve as a University offering programs of relevance in emerging areas of technology.
- The BIET family is committed to the mission and philosophy of the institute, making leaders in the field of science & technology and management, through hard work, honesty and team spirit.
- Develop a campus which promotes higher learning and research.
- Foster a harmonious, cordial and tripartite relationship among the Management, Faculty and Students.
- Encouragement of creative project works in under graduate and post graduate programs.
- Encouragement to take up research & development and consultancy work.
- Professional societies, students' chapters of professional bodies, clubs like cultural clubs, literary clubs, art clubs, sports & games clubs, technical clubs and other clubs encourage co-curricular and extra-curricular activities. They are owned and managed by student representatives and are monitored by the faculty in-charge.
- The institute follows continuous evaluation system of students like regular class tests, mock tests, assignments, mid-term examinations, slip tests, seminars, quizzes and laboratory tests.
- Resourceful in giving inputs for overseas education and training the students for making them industry ready.
- Participation in community development programs under NSS like Cloths distribution, Blood Donation camps and so on.

Core Values of BIET

1. Academic Excellence

Institute strives for the uncompromising quality and highest standard of excellence in teaching, learning and research across various disciplines.

2. Integrity and Ethics

Institute upholds the highest ethical values, integrity and professionalism and an unwavering commitment to academic freedom, transparency and accountability.

3. Diversity and Mutual Respect

Institute nurtures an environment of safety, trust & mutual respect and embeds equality & diversity in its Strategy by ensuring that the strategic plans are fair and inclusive.

4. Expand horizons of Knowledge

Institute is driven by research and innovation and ensures continuous engagement in the scholarly activities in the pursuit of innovation, creativity and excellence.

5. Shared governance

Institute encourages shared decision making through a process that rests upon collaborative consultation, open flow of information, diverse involvement and collective deliberations of all stake holders.

6. Social responsibility

Institute creates and nurtures an inclusive environment where everyone can develop their full potential and contribute to the interest of the society as a whole.

7. Environmental responsibility

Institute is acutely aware of its environmental responsibilities and embraces principle of sustainable development to ensure that any adverse environmental impact of its activities is minimized.

8. Service

Institute seeks to serve the diverse, personal and professional development needs of its constituents and encourage habit of engagement, caring, and civic responsibility by emphasizing a connect between service, excellence, and career growth.

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTUH & Approved by AICTE)

Mangalpally (Village), Ibrahimpatnam (Mandal), Ranga Reddy (District), Telangana-501510

ANNUAL REPORT FOR THE ACADEMIC YEAR 2020-21

Bharat Institute of Engineering and Technology (BIET), established in 2001, is a self-financed institution, affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH) and offers the following courses:

4-Year Undergraduate Programmes in

- Electronics and Communication Engineering
- Computer Science and Engineering
- Information Technology
- Computer Science and Machine Learning
- Electrical and Electronics Engineering
- Mechanical Engineering
- Civil Engineering

2-Year M.Tech Programmes (full time 4 semesters) in

- Computer Science and Engineering
- Wireless Technology
- VLSI
- Embedded Systems
- Electrical Power Engineering
- Power Electronics and Electric Drives (PEED)
- CAD / CAM
- Structural Engineering

2-Year Postgraduate Programme in

- Masters in Business Administration(MBA)

The four Undergraduate Engineering Programmes Mechanical Engineering, Electrical & Electronics Engineering, Computer Science & Engineering, and Electronics & Communication Engineering that are being offered by our Institute got accredited by the National Board of Accreditation (NBA) for three academic years 2019-2020 to 2021-2022, i.e. Up to 30-06-2022.

INFRASTRUCTURE:

Bharat Institute of Engineering and Technology, in its constant pursuit of offering quality education, has created excellent infrastructural facilities with a total built up area of 48,718 Sq. Meters. The Institute constructed Multi-Purpose Academic Complex with a built area of 5, 00,000 sft.

There are around 1315 systems are networked through LAN. 300 MBPS Lease line internet connectivity allows students and staff to access Internet from anywhere in the campus. Wi-Fi internet connectivity has been provided in some common areas.

INSTITUTE ACHIEVEMENTS/RECOGNITION:

- The Institute is approved by All India Council for Technical Education (AICTE), New Delhi.
- The Institute is affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad.
- BIET has been recognized under Section 2(f) of the UGC Act, 1956, dated 20th June 2017 by University Grants Commission, New Delhi.
- Accredited by NAAC with a CGPA of 2.53 on a seven point scale at B+ Grade valid for a period of five years from 02/11/2018.
- The four UG programmes Electronics & Communication Engg, Computer Science & Engg, Electrical & Electronics Engg and Mechanical Engg are Accredited by NBA for 3 years for the academic years 2019-20, 2020-21, 2021-22 i.e., up to 30-06-2022.
- ISO 9001: 2015 Certified for 3 years from the academic year 2018-19.
- Empanelled in MHRDs 'Institution's Innovation Council (IICs)' from 2018-2019.
- Empanelled in IITB, Bombay Remoter Centre from 2018-2019
- Empanelled in PM-YUVA Yojana (Pradhan Mantri Yuva Udyamita Vikas Abhiyan) to create an enabling ecosystem for Entrepreneurship Development from 2016-2017.
- Empanelled in Unnat Bharat Abhiyan (UBA) from 2017-2018.
- BIET NSS CELL Placed in "ASIAN RECORD BOOK" for organizing ECO FRIENDLY GANESH IMMERSION ON 18TH SEPTEMBER 2018.
- "TOP PERFORMING COLLEGE" Award out of 1200 Colleges across INDIA from IBM TGMC: 2015 Contest (The Great Mind Challenge).
- "ACTIVE LOCAL CHAPTER" Award from SWAYAM-NPTEL for JUL-DEC 2017, JAN-JUN 2018, JUL-OCT 2018, JAN-APR 2019 and JUL-OCT 2019.

NPTEL Courses:

To reinforce the technical knowledge of the students, institute has included National Project on Technology Enabled Learning (NPTEL) courses developed by IITs and IISc as part of regular timetable for our students.

LIBRARY:

The institute has a spacious and well-stacked library with sufficient number of titles (16,641) and volumes (64,407) and with good reprographic facilities. Further, the institute subscribes to print versions of 172 Print Journals; 4000+ e-Journals and 500+ E-Books.

FACULTY:

The Institute has 313 highly qualified and experienced faculty members including 43 teachers with Ph.D qualification 270 with postgraduate qualifications.

FACULTY ACHIEVEMENTS:

Around 88 research papers were published in reputed journals (UGC Listed Journals) and 84 research papers were published in reputed Books/Book chapters/Conferences by our faculty during 2020-21. The College also encourages faculty to upgrade their qualifications while in service by providing assistance in the form of academic leave, reduction in their class work etc.

- Around 33 National Seminars/Conferences/Workshops/Guest lectures were conducted by all the departments during the academic year 2020-21.
- More than 80% of faculty members were deputed to attend Seminars/Conferences/Workshops/Guest Lectures conducted various reputed institutions.

STUDENTS' ACHIEVEMENTS:

ACADEMIC:

Our institute is affiliated to the Jawaharlal Nehru technological University Hyderabad (JNTUH) and our students have been doing very well in the university examinations. Results during academic year 2020-21 are:

S.No	Program Code	Program Name	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass %
1	A01	B.Tech CE	92	59	64.13
2	A02	B.Tech EEE	116	39	33.62
3	A03	B.Tech ME	84	50	59.52
4	A04	B.Tech ECE	161	85	52.8
5	A05	B.Tech CSE	171	93	54.39
6	A12	B.Tech IT	39	23	58.97
7	E00	MBA	6	6	100
8	D20	M.Tech. Structural Engineering	11	11	100
9	D58	M.Tech. Computer Science and Engineering	2	2	100
10	D04	M.Tech. CAD/CAM	4	4	100
11	D57	M.Tech. VLSI	8	8	100
12	D54	M.Tech. Power Electronics and Electrical Drives	13	13	100
13	D49	M.Tech. Electrical Power Engineering	5	5	100
14	D65	M.Tech. Wireless & Mobile Communication	6	6	100
		Overall:	718	404	56.27

ACADEMIC TOPPERS
Batch: 2017-2021
COLLEGE OVERALL TOPPERS

S. No.	HT. No.	Name	CGPA
1	17E11A0442	Deekonda Sai Sudha	8.45
2	17E11A04B9	Gaddam Srihitha	8.35
3	17E11A0439	Mamillapalli Harathi	8.33
4	17E11A0479	R Navya Sree	8.26
5	17E11A0589	Shaik Karishma	8.03

DEPARTMENT WISE TOPPERS

CSE

S.No.	H.T.No.	Name	CGPA
1	17E11A0589	Shaik Karishma	8.03
2	17E11A0548	Chanda Ramya	7.95
3	17E11A0551	D Divya Sravani	7.89
4	17E11A0547	Chirra Sushma Reddy	7.85
5	17E11A0597	Tadisina Geetha Sri	7.78

ECE

S.No.	H.T.No.	Name	CGPA
1	17E11A0442	Deekonda Sai Sudha	8.45
2	17E11A04B9	Gaddam Srihitha	8.35
3	17E11A0439	Mamillapalli Harathi	8.33
4	17E11A0479	R Navya Sree	8.26
5	17E11A0440	Kotha Monalika	7.99

IT

S.No.	H.T.No.	Name	CGPA
1	17E11A1202	Addagatla Manisha	7.91
2	17E11A1228	V Krishna Viswanatham	7.67
3	17E11A1241	M Rahul Kaushik	7.61
4	17E11A1209	Vanugula Manasa	7.47
5	17E11A1233	Chinthamadaka Vamshi Krishna	7.29

EEE

S.No.	H.T.No.	Name	CGPA
1	17E11A0201	Kashamshetty Ramya Sree	7.9
2	17E11A0203	Gaddam Akhila	7.84
3	18E15A0213	A Vandana	7.84
4	18E15A0203	Korra Ganesh	7.65
5	18E15A0218	K Praveen Kumar Reddy	7.49

MECHANICAL

S.No.	H.T.No.	Name	CGPA
1	18E15A0302	Bonikala Ajay Kumar	8.02
2	17E11A0312	Chitikeshi Shashidhar	7.69
3	17E11A0311	Minnekanti Vamshi Krishna	7.33
4	17E11A0338	Kasireddy Jitender Reddy	7.32
5	17E11A0320	Thaviti Karthik Kumar	7.21

CIVIL

S.No.	H.T.No.	Name	CGPA
1	17E11A0142	Ragipani Divya	7.91
2	18E15A0117	Palthi Shivaji	7.81
3	17E11A0141	Billapaty Nandini	7.71
4	18E15A0102	Southa Sai Sruthi	7.67
5	18E15A0105	Thotapally Rama Krishna	7.61

BEST PROJECT AWARDS:

2020-2021

CSE-A

S. No.	Roll No.	Project Title	Name of Supervisor
1	17E11A0521	Helmet Detection Using Machine Learning and Automatic Licence Plate Recognition	Dr. N. Srihari Rao
	17E11A0531		
	17E11A0533		
	16E11A0525		
2	17E11A0510	A DEEP LEARNING FACIAL EXPRESSION RECOGNITION BASED SCORING SYSTEM FOR RESTAURANTS	Ms. Ann Thabitha
	17E11A0514		
	17E11A0507		
	17E11A0512		
3	17E11A0530	Vehicle and Speed Detection From Traffic Video Using DeepLearning	Mr. Narsimhulu
	17E11A0518		
	17E11A0542		
	16E11A0550		

2020-2021**CSE-B**

S. No.	Roll No.	Project Title	Name of Supervisor
1	17E11A0573	EMOTION BASED MUSIC RECOMMENDATION SYSTEM	Mr. K. Surender
	17E11A0574		
	17E11A0577		
	17E11A0570		
2	17E11A0564	BLOCKCHAIN FOR ELECTRONIC HEALTH RECORDS	Mr. Amit Sharma
	17E11A0565		
	17E11A0579		
	17E11A0571		
	14E11A0579		
3	17E11A0548	REAL-TIME SMART ATTENDANCE SYSTEM USING FACE RECOGNITION TECHNIQUES	Ms. Jincy Denny
	17E11A0546		
	17E11A0561		
	17E11A0549		

2020-2021**CSE-C**

S. No.	Roll No.	Project Title	Name of Supervisor
1	17E11A05B0	AUTOMATIC DIGITAL AUDIO AUTHENTICATION	Dr. N. Srihari Rao
	17E11A05B1		
	17E11A05B6		
	17E11A05C5		
2	17E11A0593	Intelligent transportation system for smart traveling based on traffic prediction using machine learning	Ms. Farhana bano
	17E11A05A2		
	17E11A0590		
	17E11A05A1		
	17E11A05A7		
3	17E11A05D1	Twitter sentiment analysis	Mr. Amit Sharma
	17E11A05B5		
	17E11A05D0		
	17E11A05B4		

2020-2021**CSE-D**

S. No.	Roll No.	Project Title	Name of Supervisor
1	17E11A05G2	E-NOTICE FOR EDUCATIONAL SYSTEM	Mr. Bhagvan Krishna Gupta
	17E11A05G0		
	16E11A05J2		
	17E11A05G6		
2	17E11A05D3	EARLY PREDICTION OF SEPSIS FROM CLINICAL DATA	Ms. Shazia Anjum
	17E11A05D9		
	17E11A05E8		
	17E11A05F0		
3	17E11A05D7	Human Computer Interaction based eye controlled mouse	Dr. Thirupal Reddy
	17E11A05D6		
	17E11A05E3		
	17E11A05E7		

2020-2021**ECE**

S. No	Roll Number	Title of The Project	Name of Supervisor
1	17E11A0479	IOT BASED REMOTE PATIENT HEALTH MONITORING SYSTEM	Dr. Anil Kumar Sahu
	17E11A0480		
	17E11A0488		
	15E11A04C4		
2	17E11A0490	Design and Implementation of Smart Glove for the Visually Impaired	Joy Sangeeth Raj
	17E11A0489		
	17E11A0494		
	17E11A0483		
	17E11A0484		
3	16E11A04E5	IoT based Four Wheeler parking system for smart cities	Dr Kamyani Srivastava
	17E11A04F5		
	17E11A04F0		
	17E11A04D7		

2020-2021**EEE**

S. No.	Roll Number	Title of The Project	Name of Supervisor
1	18E15A0203	RESISTIVE TOUCH SCREEN SPEED MONITORING & CONTROLLING OF AC MOTOR WITH SPEED LIMIT ALERTS	Mr P.Sravan Kumar
	17E11A0244		
	17E11A0223		
	18E15A0208		
2	17E15A0237	IoT based Smart Parking and Traffic Management system	Dr.K. Muruga Perumal
	18E15A0221		
	17E11A0292		
	18E15A0232		
3	17E11A0205	DESIGN & IMPEMENTATION OF BLUETOOTH ENERGY METER	Mr.Bipul Krishna Saha
	17e11a0225		
	17E11A0206		
	15E11A0298		
4	17E11A0299	Automatic Submersible Pump Control for Irrigation	Dr.Sukanth.T
	18E15A0229		
	18E15A0223		
	17E11A0293		
	17E11A0274		

2020-2021**MECHANICAL**

S. No.	Roll No.	Project Title	Project Guide
1	17E11A0320	Drone for fire safety	Dr. Naveen Krishna
	17E11A0321		
	17E11A0335		
2	18D15A0302	Design of Arduino CNC foam cutting machine	Dr. J P Singh
	17E11A0341		
	16E11A0306		
	17E15A0308		

2020-2021

CIVIL

S. No.	Roll No.	Project Title	Project Guide
1	17E11A0168	Water Conservation for Water Security	Dr K.Venugopal
	18E15A0116		
	18E15A0120		
	18E15A0122		

ENTREPRENEURSHIP DEVELOPMENT CELL:

ENTREPRENEURSHIP INITIATIVES:

- The institute Empanelled in MHRDs Institution's Innovation Council (IICs)' from 2018-2019
- Empanelled in PM-YUVA Yojana(Pradhan Mantri Yuva Udyamita Vikas Abhiyan) to create an enabling ecosystem for Entrepreneurship Development through entrepreneurship education and training
- Empanelled in Unnat Bharat Abhiyan (UBA), Centre for Rural Development and Technology to build an understanding of the development agenda within institutes of Higher Education and an institutional capacity and training relevant to national needs, especially those of rural India
- Empanelled as a Partner Indian School of Business - Technical Entrepreneur Program (ISB - TEP) by ISB for over a period of one year from 2018-2019

ENTREPRENEURSHIP ACTIVITIES CONDUCTED:

Name of the workshop/ seminar	Number of Participants	Date From – To
"Workshop On Entrepreneurship Development Phases"	25	09-09-20
Pitching workshop and linkage of innovator with Innovation Ambassador	156	12-09-20
My Story- Motivational Session by Successful Innovators"	34	12-09-20
"My Story – Motivational Session by Successful Innovator"	100	15-09-20
"Session On Processs Of Innovation Developments "	156	15-09-20
"Exposure and Field visit for problem identification"	150	13-10-20
"Semester Break: Internship at Startups "	30	24-11-20
"Field /Exposure visit to Fab Lab, Maker Space,Design Centers"	170	08-12-20
Workshop on "Session on Problem Solving and Ideation Workshop"	57	24-12-20
Workshop on "Entrepreneurship and Innovation as Career Opportunity"	47	28-12-20
Design Validation through various model of design validation (e.g. Double Diamond Approach)	100	28-12-20
Orientation Session for all Students and Faculties of Institute by Innovation Ambassadors	70	30-12-20
"Business Plan/Prototype Competition to Invite Innovative Business Models from Students"	16	20-04-21

STUDENT DEVELOPMENT PROGRAMMES:

PALCEMENTS:

Numbers of students placed for the academic year 2020-21 are:

S. No.	Department	Number of students Placed
1	CSE	78
2	ECE	39
3	IT	14
4	EEE	33
5	MECHANICAL	07
6	CIVIL	05
Total		176

EXTRA-CURRICULAR ACTIVITIES:

The Institute 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, in following rules, regulations and execution of skills. Student Councils are actively participating and organizing various activities related to academics, co- curricular and Extra-curricular activities, with the guidance of faculty. They are providing great support to college related academic / administrative work with the help of other students. They are actively involving in motivating the students to participate in various activities conducted by the college. Students are encouraged to participate in co-curricular and extra-curricular activities in inter-college, inter-university and in National level competitions.

Number of sports and cultural events/competitions in which students of the Institution participated (organized by the institution/other institutions)) during last year 2020-21: 13

Date of event/activity (DD-MM-YYYY)	Name of the event/activity	Name of the student participated
21/06/2020	International Yoga Day	50
09-05-20	Teacher's Day celebrations	50
15/10/2020	World student's Day	22
12-10-20	Human Right's Day	30
01-12-21	National Youth Day(Birthday of Swami Vivekananda)	300
18/01/2021	Pongal	40
26/01/2021	Republic Day	150
27/02/2021	Science Day	100
08-03-21	Womens Day	84
23/04/2021	English language Day	40
15/8/2021	Independence day celebrations	150
25/06/2021	TECHMETIX-2K21 TECH FEST JUNE 25TH ,26TH	80
26/06/2021	Tech Fest	150

CLUBS:

Students' representation and engagement in **Club Activities** as *Student In-Charge Facilitator* and *Student Assistant In-Charge Facilitator* for co-curricular and extracurricular activities.

Various Clubs are:

S. No.	Name of the Club	Categories
I	Cultural Clubs	Singing Club
		Musical Instruments Club
		Drama /Mono action/Skit Club
		Mime/Mimicry Club
		Dance Club: a)Classical Dance & b)Western Dance
II	Literary Clubs	Debate Club
		Orators / Toastmasters Club
		Quiz Club
		Poetry Club
III	Art Clubs	Painting Club
		Photography Club
		Rangoli/Mehandi
		Pottery Club
IV	Sports & Games Clubs	Basket Ball Club
		Throw Ball Club
		Tennis Club
		Chess Club
		Table Tennis Club
		Volley Ball Club
		Foot ball Club
		Cricket Club
V	Technical Clubs	Robotics Club
		Mathematics Club
		Physics Club
		Any other related to your department

ALUMNI:

The college has been interacting with the Alumni regularly through the alumni portal with a view to facilitate connectivity and seek their cooperation in areas of placements, Students' projects, Students' visits, Consultancy etc. Our Alumni have also instituted awards for students who have secured overall best performance in academics.


PRINCIPAL
SHARAT INSTITUTE OF ENGG & TE
WANGALPALLY(V), IBRAHIMPATNA
R R DIST. TELANGANA-501530