



## BEARYS INSTITUTE OF TECHNOLOGY – MANGALORE

(Affiliated by Visvesvaraya Technological University, Belagavi,  
Approved by AICTE, New Delhi and Recognised by Government of Karnataka)  
Bearys Knowledge Campus, Lands End, Boliyar village  
Near Mangalore University, Mangalore, Karnataka - 574199

### Mandatory Disclosure

1.	Name of the Institution	<b>Bearys Institute of Technology</b>
	Address	Bearys Knowledge Campus Lands end, Innoli, Boliyar village, Mangalore – 574199 D.K, Karnataka
	Telephone No Mobile No E-Mail	0824-2235700/100 +91 7259773322 <a href="mailto:principal@bitmangalore.edu.in">principal@bitmangalore.edu.in</a>
2.	Name of the Trust Address	Bearys Academy of Learning Bearys Horizon, 21 wood street, Bangalore - 560025 Bangalore Urban, Karnataka
	Telephone No Mobile No E-Mail	080-22273124 +91 8025317777 <a href="mailto:education@bearysgroup.com">education@bearysgroup.com</a>
3.	Name of the Principal	Dr. S. I. Manjur Basha 4/9, N.G.G.O Colony, Coimbatore, Tamilnadu – 641022
	Telephone No Mobile No E-Mail	0824-2235700 +91 7259773322 <a href="mailto:principal@bitmangalore.edu.in">principal@bitmangalore.edu.in</a>
4.	Name of the affiliating University	<b>Visvesvaraya Technological University, Belagavi (VTU)</b>

### 1. Governance:

• <u>Members of the Board:</u>	
<b>Name</b>	<b>Designation</b>
Mr. Syed Mohammed Beary	Chairman
Mr. Mohidin Mazhar S Beary	Member
Mr. Abubakar Siddique Beary	Member
Mr. Mohammed Ashraf Beary	Member
Ms. Olivia	Member
• Frequently of the Board Meeting and Academic Advisory Body - <b>YES</b>	
• Organizational chart and processes - <b>YES</b>	
• Nature and Extent of involvement of Faculty and students in academic affairs/ improvements - <b>YES</b>	
• Mechanism/Norms and Procedure for democratic/good Governance - <b>YES</b>	
• Student Feedback on Institutional Governance/ Faulty performance - <b>YES</b>	



- **Placement Facilities:**

A Seminar Hall with full-fledged audio - visual facility and a seating capacity for 400 students is in place along with the following:

- Computers with high speed internet connectivity to support 200 students at a time.
- Separate rooms for written test, Group Discussion and Interviews.
- Cafeteria, Guest House, Logistics for Company Officials.

- **Campus placement in last three years with Minimum Salary, Maximum Salary and Average Salary:**

2020 - 21: Highest Package - 10LPA & Lowest Package: 1.8LPA; Average Salary - 5.9 LPA

2021 - 22: Highest Package - 10LPA & Lowest Package: 1.92LPA; Average Salary - 5.96 LPA

2022 - 23: Highest Package - 7LPA & Lowest Package : 1.2LPA; Average Salary - 4.1 LPA

### 3. Faculty:

S.N	Name of the Faculty	Qualification	Designation
<b>Electronics and Communications Engineering</b>			
1	Dr. S I Manjur Basha	Ph.D	Principal
2	Dr. Abdullah Gubbi	Ph.D	Professor & HOD
3	Mrs. Mubeena Perveen Taj	M.Tech (Ph.D)	Assoc.Prof
4	Mr. Abdul Jabbar H	M.Tech	Asst.Prof
5	Mrs. Rashmi A V	M.Tech	Asst.Prof
6	Mrs. Nafisath T.P	M.Tech	Asst.Prof
7	Mr. Jeevan N. D	M.Tech	Asst. Prof
8	Mrs. Nikitha C	M.Tech	Asst. Prof
9	Mr. Sujay. K	M.Tech	Asst. Prof
10	Mr. Mujawar Mehaboob Riyaz Ahmed	M.Tech	Asst.Prof
<b>Civil Engineering</b>			
1	Dr. Nalini Rebello	Ph.D	Professor & HOD
2	Prof. Purusothama CT	M.Tech (Ph.D)	Professor
3	Mr. Zahir Ahmed	M.Tech (Ph.D)	Assoc. Prof
4	Mr. Altamashuddin Khan	Ph.D	Asst. Prof.
5	Mr. Badruddin P.M.	M.Tech	Asst. Prof
6	Mr. Vijay H	M.Tech	Asst. Prof
7	Mr. Bharath Gowda	M.Tech	Asst. Prof
8	Mr. Mohd Minhajuddin	M.Tech	Asst. Prof
9	Mr. Anjan Kumar M.U	M.Tech (Ph.D)	Asst. Prof
10	Ms. Shareefa R Nadaf	M.Tech (Ph.D)	Asst. Prof.
<b>Computer Science Engineering</b>			
1	Dr. B Aziz Musthafa	Ph.D	Professor
2	Mr. Mohammed Sinan	M.Tech	Asst. Prof & HOD
3	Mr. Afsar Baig M	M.Tech	Asst. Prof
4	Mr. Jalaluddeen B.M.	ME	Asst. Prof
5	Ms. Umme Najma	M.Tech	Asst. Prof
6	Mrs. Akshatha S.A	M.Tech	Asst. Prof
7	Dr. Nubila Jaleel	Ph.D	Asst. Prof
8	Ms. Nusaiba	M.Tech	Asst. Prof
9	Ms. Umaira	M.Tech	Asst. Prof

<b>Mechanical Engineering</b>			
1	Dr. S.A Khan	Ph.D	Professor
2	Dr. Vasantha Kumar	Ph.D	Assoc. Prof & HOD
3	Dr. Imran Mokashi	Ph.D	Assoc. Prof
4	Mr. Arvind Kumar	M.Tech (Ph.D)	Asst. Prof
5	Mr. Manjunath Ichchangi	M.Tech (Ph.D)	Asst. Prof
6	Mr. Mohammed Kafeel Delvi	M.Tech (Ph.D)	Asst. Prof
7	Mr. Prithviraj M	M.Tech, Ph.D	Asst. Prof
8	Mr. Vinod Kumar	M.Tech	Asst. Prof
9	Mr. Gokuldas M	M.Tech	Asst. Prof
10	Dr. Sateesh Kumar Kanakannavar	Ph.D	Asst. Prof
<b>Basic Science</b>			
1	Dr. Anjum Khan	MSc, Ph.D	Professor & HOD
2	Dr. Vinutha R.P	MSc, Ph.D	Assoc. Prof
3	Dr. Shaikh Ameer Basha	MSc, Ph.D	Asst. Prof
4	Mr. Musthafa Khaleel	MSc	Asst. Prof
5	Mr. Imran U.A	MSc	Asst. Prof
6	Mr. Sharan Hegde	MSc	Asst. Prof
7	Ms. Alfiya Minaz	MSc	Asst. Prof
8	Ms. Prathiksha U	MSc	Asst. Prof
9	Mr. Mubarak Khan Pastoni	MSc	Asst. Prof
<b>Humanities</b>			
1	Ms. Ashwini B	MBA	Lecturer
2	Mr. Joyson Prakash Miranda	MA, B.Ed	Asst. Prof.

#### **4. Profile of Principal:**

First Name	Dr. S.I. Manjur Basha
Fathers Name	Mr. Sheik Ibrahim
Surname	Sheik Ibrahim
Date of Birth	05-06-1970
Address	4/9, N.G.G.O Colony, Coimbatore, Tamilnadu-641022
Village/Town City	Coimbatore
District	Coimbatore
Taluk	Coimbatore
PIN	641022
STD Code	0824
Land Line	2235700
Mobile No	+91 7259773322
Email ID	principal@bitmangalore.edu.in
PAN Number	AFDPM3133J
Adhaar Number	324982456688
PhD Stream	Engineering & Technology
PhD Course	Electrical Engineering
PhD University	Anna University
PhD Specialization	Electrical Engineering (Synchronous Machines)
PhD Year of Award	2012
PG Stream	Engineering & Technology

PG Course	Electrical & Electronics Engineering (Electrical Machines)
PG University	Bharathiar University
PG Year of Passing	1999
UG Stream	Engineering & Technology
UG Course/Branch/ Combination	Electrical & Electronics Engineering
UG University	Bharathiar University
Date of Joining the Institution	09-10-2019
Appointment type	Regular

### **EXPERIENCE DETAILS:**

Teaching Experience as Lecturer / Sr. Lecturer	9 years
Asst. Professor	3 years
Teaching Experience as Professor	3 years, 9 months
Industrial Experience	6 years
Experience in Principal	10 years, 6 months
Total Experience	32 years, 3 months

### **PRINCIPAL PUBLICATION:**

S. N.	PUBLICATION TYPE	TITLE	NUMBER OF PAGES	TYPE OF BOOK & AUTHORSHIP
1.	International Level Journals	A Measurement Technique For Direct Axis & Quadrature Axis Magnetic Characteristics In A Projected Pole Synchronous Machine	10	Main Author
2.	International Level Journals	Quadrature Axis Flux Modeling In Projected Pole Synchronous Machines Using Regression Techniques And Adaptive Network Fuzzy Inference System	17	Main Author
3.	International Level Journal	Information Set Based Local Directional Number For Face Recognition	07	Co-Author
4.	National Level Journals	Additional Revenue Realization To The Utility By Var Compensation In Agricultural Pump Sets	13	Co-Author
5.	Conference Proceeding	Efficiency Enhancement Of Pv Panel Using Soft Computing Based Seeker Optimization Algorithm And Seven Level Inverter Configuration	09	Co-Author
6.	Conference Proceeding	Efficient Operation Of Three Phase Induction Motor For Energy Savings At Reduced Voltage And At Reduced Load Conditions	11	Main Author
7.	Conference Proceeding	Estimation Of Quadrature Axis Magnetic Characteristics Of Salient Pole Synchronous Machines Using Fuzzy Logic	10	Main Author

## **PRINCIPAL PAPER PRESENTATION:**

<b>Programme</b>	<b>Organized by</b>	<b>Level</b>
A Measurement Technique for Direct Axis & Quadrature Axis Magnetic Characteristics in a Projected Pole (Stationary field type) Synchronous M	U.K	International
Quadrature Axis Flux Modeling in Projected Pole Synchronous Machines using Regression Techniques and Adaptive Network Fuzzy Inference System	U.K	International
Additional Revenue Realization to the Utility by VAR compensation in Agricultural pump sets	IEEMA	National journal
Efficient operation of Three Phase Induction Motor for Energy Savings at Reduced Voltage and at Reduced Load Conditions	Kumaraguru College of Technology, Coimbatore and National University of Singapore	International conference
Efficiency Enhancement of PV Panel using Soft Computing Based Seeker Optimization Algorithm and Seven Level Inverter Configuration	MIR Labs and Cochin University of Science and Technology (CUSAT), Kochi.	International conference
Estimation of Quadrature Axis Magnetic Characteristics of Salient Pole Synchronous Machines using Fuzzy Logic	K.S.R. College of Engineering, Tiruchengode	International conference
Information set based Local Directional Number for Face Recognition	Turkish	International

## **5. Fees:**

- Details of Fee, as approved by state Fee Committee, for the Institution
  - 1) Civil - Rs. 98,984/-
  - 2) Mech - Rs. 98,984/-
  - 3) CSE - Rs. 98,984/-
  - 4) E&C - Rs. 98,984/-
- Time Schedule for payment of fee for the entire programme
  - 1) On or Before of 18<sup>th</sup> October of Respective A.Y.
  - 2) On or Before of 30<sup>th</sup> May of Respective A.Y.

### **• No. of Fee waivers granted with amount and name of the Student:**

<b>Sl. No</b>	<b>NAME OF THE STUDENT</b>	<b>Amount</b>
1	Mukhaddas	5000
2	Megha Manojna Munikkal	12500
3	Saqib Abdul Karim Attar	25000
4	Chandrashekhar Rajakumar Kakhandaki	12500
5	Hashfira	25000
6	Saniya	10500
7	Keerthan Karkera	5000
8	Fariya	7000
9	Manjunath Basavant Kempannavar	25000
10	Syed Mohammed Rayan	12500
11	Farya Naz	10000
12	Mohammed Yaqub Saqlain	12500
13	Ummiswaliya Hasimsab Mulla	25000
14	Avinash Bankur	2000
15	Hajjuma Chandbasha Bagwan	25000
16	Suman Gopikumar Basarkod	25000

17	Manjunath Bheemaraya Biradar	12500
18	Chandru Kalakappa Pattanashetti	25000
19	Mohammed Huzaif	25000
20	Lukman T V	25000
21	Ganesh Adiveyya Gaddagimath	25000
22	Keerthi M V	5000
23	Shanmukh Wali	25000
24	Mahmadshahid Appasaheb Mulla	12500
25	Washim Shaikh	7000
26	Nitin Hullur	7000
27	Gurukiran Sangamesh Nagod	12500
28	M S Shihabuddeen	12500

- Total No. of Students offered by Institution through Talent Hunt Scholarship – 28 No's
- Criteria for Fee waivers/ Scholarship- On Merit Basis
- Estimated cost of Boarding and Lodging in Hostels- Rs. 62,000/- per year

## 6. Admission:

- Number of seats sanctioned with the year of approval –60 each

### Quota List

**Total Intake of all the Courses: 300**

Course	KEA(A)			COMED-K/KRLM(B)			Management C			Cat A+B+C			SNQ Admn
	Intake	Admn	Vacancy	Intake	Admn	Vacancy	Intake	Admn	Vacancy	Total Intake	Total Admn	Vacancy	
<b>B.Tech</b>	40%			30%			30%			100%			
<b>MECH</b>	24	0	24	18	0	18	18	12	6	60	14	46	2
<b>CIVIL</b>	24	0	24	18	0	18	18	4	14	60	6	54	2
<b>CSE</b>	24	21	3	18	0	18	18	39	0	60	60	0	2
<b>ECE</b>	24	0	24	18	0	18	18	48	0	60	51	9	3
<b>AI&amp;DS</b>	24	8	16	18	0	18	18	48	0	60	59	1	3
<b><u>M.Tech</u></b>													
<b>CSE</b>	0			0			2			18	2	16	0
<b>MECH</b>	0			0			3			9	3	6	0

### Category wise Admission to course for the year 2022-23

Course	GM	2A	SC	ST	2B	3B
MECH Engineering	0	1	0	0	13	0
CIVIL Engineering	0	0	0	0	6	0
CS Engineering	3	8	2	1	45	3
E&C Engineering	0	5	1	2	43	0
AI & DS	3	0	0	2	53	1
<b>Total</b>	<b>6</b>	<b>14</b>	<b>3</b>	<b>5</b>	<b>160</b>	<b>4</b>

## 7. Admission Procedure:

- <https://forms.gle/cy3XTNnEFt7DvBVz9>
- Admission Test;  
BE – CET/COMED-K/ KRLMPCA/

Calendar for admission against Management/vacant seats:

- Last date of request for applications – **01.06.2022, 22.11.2022, 05.12.2022**
- Last date of submission of applications – **15.10.2022, 30.11.2022, 09.12.2022**
- Dates for announcing final results – **17.10.2022, 01.12.2022, 09.12.2022**
- Starting of the Academic session – **December**
- The policy of refund of the fee, in case of withdrawal, shall be clearly notified – **31.12.2022**

## 8. Criteria and Weightages for Admission:

- Eligibility: Candidates who have Passed Second PUC/12<sup>th</sup> standard:
  - (1) Passed Second PUC/12<sup>th</sup> standard/Equivalent with English as one of the Languages and obtained a minimum of 45% of marks in aggregate in Physics & Mathematics as a compulsory subject and anyone optional subject with Chemistry/Bio-Technology/Biology/Electronics/Computer and 40% in case of SC, ST, Category – 1, 2A, 2B, 3A and 3B category candidates of Karnataka only.
  - (2) Students, who have passed a qualifying examination other than the PUC II examination of the Pre-University Education Board of Karnataka, have to obtain eligibility certificate for seeking admission to B.E./B.Tech. Degree Programme from Visvesvaraya Technological University, Belagavi.
- **Criteria and Weightages for Admission through Lateral entry admission:**
  - (1) A candidate who has passed 3 years Engineering diploma examination or equivalent examination and obtained an aggregate minimum of 45% marks taken together in all the subjects of the final year diploma examination is eligible for admission to B.E./B.Tech. programmes, in respective branch of engineering (as notified by the Government of Karnataka for admission to 3<sup>rd</sup> semester/ 2<sup>nd</sup> year B.E./B.Tech.) and 40% of marks in qualified examination in case of SC, ST and Backward classes of Karnataka candidates.
  - (2) Those candidates who have completed Engineering Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate issued from the Directorate of Technical Education, Karnataka.

## 15. Information of Infrastructure and Other Resource Available:

- Number of Class Rooms – **22 No's** (70sqm size of each)
- Number of Tutorial rooms – **5 No's** (33sqm size of each)
- Number Of Laboratories – **36 No's** (112 sqmsize of each)
- Number of Computers – **385 No's**
- Central Examination Facility - **Available**
- Barrier Free Built Environment for disable and elderly persons – **Yes, Available**
- Occupancy Certificate - **YES**
- Fire and Safety Certificate - **Applied**
- Hostel Facilities – **Available**



**Library:**

- Number of Title: 2954
- Number of Volumes: 20143
- Number of National Journals: 29
- E-Books:

<b>Titles</b>	<b>Volumes</b>
27445	27445

- **Laboratory and Workshop:**

**ELECTRONICS & COMMUNICATION ENGINEERING LAB**

<b>S.N</b>	<b>Name of laboratory</b>	<b>Carpet area(Sq.mt)</b>	<b>Major Equipment's</b>	<b>Total Investment till Date</b>
1	Digital Lab	95	CROs, Trainer Kits, IC-Testers	Rs. 1,93,282/-
2	Analog Electronics Circuit Lab	70	CROs, Function Generators, Multimeters, Digital Oscilloscope	Rs. 4,97,011/-
3	DSP Lab	95	TMS320C6748 DSP Development Kit - Texas Instruments, Matlab, Personal Computers	Rs. 1,13,282/-
4	Micro Controller Lab	95	8051 MC kits , Personal Computers	Rs. 1,10,000/-
5	HDL Lab	95	FPGA Kits, Personal Computers	Rs. 1,81,500/-
6	Communication Lab	95	Fiber optic kit, Antenna Kits, Digital Kits	Rs. 1,63,282/-
7	VLSI Lab	95	Cadence Tool, Personal Computers	Rs. 6,50,000/-

**CHEMISTRY LAB**

<b>S.N</b>	<b>Name of laboratory</b>	<b>Carpet area(Sq.mt)</b>	<b>Major Equipment's</b>	<b>Total Investment till Date</b>
1	Chemistry lab	200	Electronic weight balance, Hot air oven, Conductivity meter, PH meter, potentiometer, Colori meter, Hot plate	Rs. 9,01,292/-

## **PHYSICS LAB**

S.N	Name of laboratory	Carpet area(Sq.mt)	Major Equipment's	Total Investment till Date
1	Physics Lab	200	Black body radiator expt setup, Black box expt. setup, Capacitor charging and discharging expt setup, Firmi energy expt. setup, Newton's rings expt. setup, Magnetic field along the exis of a circular coil expt	Rs. 3,85,417/-

## **MECHANICAL ENGINEERING LAB**

S. N	Name of laboratory	Carpet area(Sq.mt)	Major Equipment's	Total Investment till Date
1	Design Laboratory	200 Sq.m	Journal Bearing Apparatus	4,31,280.00
2			Principle Stresses & Strain	
3			Balancing of Rotating Masses	
4			Vibration Studies	
5			Whirling of Shaft Apparatus	
6			Universal Governor Apparatus	
7			Stress & Strain in a Curved Beam	
1	Energy Conversion Laboratory	200 Sq.m	4-Stroke Single Cylinder Diesel Engine	14,34,018.00
2			Pensky Apparatus	
3			Cleveland's Apparatus	
4			Boys Gas Calorimeter	
5			Digital Bomb Colorimeter	
6			Redwood Viscometer	
7			Say bolt Viscometer	
8			2-Stroke Single Cylinder Petrol Engine	
9			Variable Compression Ratio Petrol Engine	
10			Port Opening Diagram of 2- Stroke Petrol Engine	
11			Mechanical Planimeter	
12			4- Stroke 3 Cylinder Petrol Engine	
13			Valve Timing Diagram of 4- Stroke Diesel Engine with Cut Section	
1	Fluid Mechanics	200 Sq.m	Venturi meter Apparatus	4,59,317.00
2			Major losses in pipe flow Apparatus	
3			Minor losses in pipe flow Apparatus	
4			Calibration of Notches	
5			Impact of jet on vanes Apparatus	
6			Centrifugal pump test rig	
7			Reciprocating pump test rig	

8			Pelton wheel turbine	
9			Francis turbine	
10			Air blower	
1	Foundry And Forging	200Sq.m	Gas Furnace	4,59,317.00
2			Sieve Shaker	
3			Universal Strength Machine	
4			Permeability Meter	
5			Mould Hardness Tester	
6			Core Hardness Tester	
7			Clay Washer	
8			Sand Rammer	
9			Specimen Degree Temperature Indicator	
1	Heat Transfer	100Sq.m	Thermal Conductivity of Metal Rod	3,56,162.00
2			Heat Transfer Co-Efficient of Composite Wall	
3			Heat Transfer Through Pin- Fin	
4			Heat Transfer Through Natural Convection	
5			Heat Transfer Through Forced Connection	
6			Emissivity Measurement Apparatus	
7			Stefan Boltzmann Apparatus	
8			Parallel Flow And Counter Flow Heat Exchanger	
9			Transient Conduction Heat Transfer	
10			Vapour Compression Refrigeration Test Rig	
1	Machineshop	200 Sq.m	Preci-Turnmaster-350Series All Geared Head Lathe	41,59,720.00
2			Universal Milling Machine (Semi-Automatic)	
3			Heavy Duty Shaping Machine	
4			Slotting Machine	
5			Surface Grinding Machine	
1	Material Testing	200 Sq.m	Brinell And Rockwell Hardness Tester	9,13,925.00
2			Impact Tester Izod And Charpy	
3			Universal Testing Machine (60T)	
4			Fatigue Testing Machine	
5			Magnetic Crack Detector Machine	
6			Metallurgical Microscope	
1	MMM LAB	200 Sq.m	Calibration of pressure Gauge with transducers	7,82,225.00
2			Calibration of Thermocouple	
3			Calibration of LVDT	
4			Strain gauge	
5			Strip Gauge	
6			External Micrometer	
7			Tool Maker Microscope	
8			Sine bar	
9			Sine center	
10			Bevel Protector	
11			Auto- Collimator	
12			Lathe Tool Dynamo Meter	
13			Drill Tool Dynamo meter	
14			Mechanical Comparator	
15			Mechanical Comparator Dial Gauge	

16			Gear Tool Vernier Calipers	
17			Gear Tool Micrometer	
18			Monochromatic Light Source	
19			Optical Flats	
20			Surface Plates	
21			Dial Indicator (LC 0.001mm)	
22			Pitch Gauge (0.35mm) Screw Thread	
23			Magnetic Stand	
1	Super Sonic Reaserch Lab	200 Sq.m	ESS-NI-DAQ	4,31,280.00
2			LAB VIEW	
3			16SENSOR	
1	CAMA Lab/CIM Lab	100 Sq.m	26 Computers, 1 Projector	17,07,175.00/ 5,80,250.00
2	CEAD LAB	250 Sq.m	31 Computers, 1 Projector	22,62,030.00
Total				1,39,76,699.00

### **COMPUTER SCIENCE AND ENGINEERING LAB**

S.N	Name of laboratory	Carpet area(Sq.mt)	Major Equipment's	Total Investment till Date
1	Data Structure Lab	70	DELL Computers, EPSON PLCXW57 Projector, Laser Printer	525024
2	Database Application	111	DELL Computers, Operating System, MICR, MS Visual Studio2010,Oracle Database 10g	770118
3	Design and Analysis of Algorithm	70	DELL Computers, OS for DELL Computers, MS Visual Studio 2010 Professional	514050
4	Digital Signal Processing	95	HP Computers CC Studio, DSP, Starter Kit, DSK Matlab Software	461664
5	Computer Graphics and Visualization	111	HP Computers and DELL Computers and Software	688368
6	Analog Logic Design and Digital Electronics	95	Trainer Kit, Patch cords, Oscilloscope, Power Supply unit	791985
7	Micro Processor Lab	95	Interfacing card, CRO's	791984
8	Computer Networking Lab	65	DELL Computers, IBM Server, D-Link, Manageable Switch, Alpha UPS15kv,3PH-1PH,UPS with Exide battery	1045402
9	SS and OS Lab	70	DELL Computers, OS for DELL Computers, Printer and Projector	598250
10	Unix Lab	70	DELL Computers, OS for DELL Computers	598250
11	Web Programming Lab	65	DELL Computers, OS for DELL Computers	797518
12	Mobile Application Development Lab	70	DELL Computers, EPSON EBE01 Projector	1929186
13	Machine Learning Lab	65	DELL Computers, IBM Server, D-Link, Manageable Switch, USP,Anaconda Navigator	1045402

## **CIVIL ENGINEERING LAB**

S.N	Name of laboratory	Carpet area(Sq.mt)	Major Equipment's	Total Investment till Date
1	Geotechnical Lab	182	<ul style="list-style-type: none"> <li>• Tri-axial compression testing machine</li> <li>• Direct shear testing machine</li> <li>• Vane shear testing machine</li> <li>• CBR test</li> <li>• Relative density</li> <li>• Consolidation test</li> <li>• Swell test</li> <li>• Unconfined compression testing machine</li> </ul>	Rs. 7,09,460/-
2	Basic Material Testing	182	<ul style="list-style-type: none"> <li>• Brinell and Rockwell hardness testing equipment</li> <li>• Impact testing machine</li> <li>• Universal testing machine</li> </ul>	Rs. 6,94,983/-
3	Surveying Practice Lab	6.75	<ul style="list-style-type: none"> <li>• Total station</li> <li>• Theodolite</li> <li>• Auto level</li> <li>• Dumpy level</li> </ul>	Rs. 7,79,781/-
4	Applied Engineering Geology Lab	40	<ul style="list-style-type: none"> <li>• Rock specimen</li> <li>• Mineral specimen</li> </ul>	Rs. 2,14,749/-
5	Fluid Mechanics Lab	182	<ul style="list-style-type: none"> <li>• Flow through pipes: Major losses and minor losses</li> <li>• Centrifugal pump</li> <li>• Venturi-meter</li> <li>• Impact of jet on vanes</li> <li>• Notch calibration set up</li> <li>• Pelton wheel</li> <li>• Francis turbine</li> </ul>	Rs. 12,26,061/-
6	High Way And Concrete Lab	182	<ul style="list-style-type: none"> <li>• Impact testing machine</li> <li>• Compression testing machine</li> <li>• Los Angeles abrasion testing machine</li> <li>• Ductility testing apparatus</li> <li>• Cement autoclave</li> <li>• Concrete mixer</li> <li>• Flexural testing machine</li> </ul>	Rs. 12,60,186/-
7	Environmental Engineering Laboratory	182	<ul style="list-style-type: none"> <li>• Digital conductivity meter</li> <li>• pH meter</li> </ul>	Rs. 3,00,307/-

**Computing Facilities:**

• Internet Bandwidth – <b>104 mbps</b>
• Number and configuration of System – <b>Window 10</b>
• Total number of system connected by LAN – <b>385 No's</b>
• Total number of system connected by WAN – <b>05 No's (Laptops)</b>
• Major software packages available – Windows, Ubuntu, MS Office 2010, Sophos antivirus, Cadence server
• Special purpose facilities – Google workstation for Education
• Facilities for conduct of classes in online mode – Zoom, Google meet
• Innovation Cell – <b>Available</b>
• Social Media Cell – <b>Available</b>
• Compliance of the National Academic Depository (NAD), applicable to PGCM/PGDM Institutions and University Departments - <b>YES</b>

• **List of facilities available:**

• Games and Sports Facilities: Football Cricket Throw ball Table Tennis Badminton Chess Carom Ludo Volley ball Basket ball
• Extra-Curricular Activities Red Cross NSS Cultural Activities
• Soft Skill Development Facilities - <b>In Practice</b>

• **Teaching Learning process:**

Internal Continuous evaluation System in place - **YES**

Student's assessment of Faculty, System in place –**YES**

- **Academic Calendar of the University**

<b>(Tentative) Academic Calendar for semesters of II semester B.E./B.Tech/B.Arch./B.Plan and IV semester B.E./B.Tech., Programs for AY 2022-23 (May 2023)</b>			
	<b>II Semester B.E./B.Tech. (2022 scheme)</b>	<b>II Semester B.Arch, B.Plan (2021 scheme)</b>	<b>IV Semester B.E./ B.Tech (2021 scheme)</b>
<b>Commencement of the semester</b>	25.05.2023	17.05.2023	17.05.2023
<b>Internship #</b>	-----	-----	17.05.2023 To 03.06.2023
<b>Commencement of the Classes</b>	25.05.2023	17.05.2023	05.06.2023
<b>Last Working day of the Semester</b>	09.09.2023	31.08.2023	16.09.2023
<b>Practical Examination/Viva Examination</b>	11.09.2023 To 20.09.2023	01.09.2023 To 08.09.2023	19.09.2023 To 30.09.2023
<b>Theory Examinations</b>	21.09.2023 To 21.10.2023	11.09.2023 To 27.09.2023	03.10.2023 To 20.10.2023
<b>Commencement of next Semester</b>	25.10.2023	09.10.2023	25.10.2023

<b><u>Exclusive Laboratory Facilities to the PG Course</u></b>			
<b>Sl.No</b>	<b>PG Program</b>	<b>Specialisation</b>	<b>Exclusive Laboratories for the PG Course</b>
1	M.Tech - Machine Design	Machine Design	Design Lab - 1
2	M.Tech - CSE	CSE	IOT Lab

- **Special Softwares:**

<b>DEPARTMENT: ELECTRONICS AND COMMUNICATION</b>		
<b>S.N</b>	<b>Name of the Lab</b>	<b>Software Available</b>
1	DSP Lab	Matlab 6.5
2	HDL Lab	Xilinx 14.1
3	Analog Electronics Circuit Lab	Multisim 11.0
4	Micro Controller Lab	Keil 5.1
5	VLSI Lab	Cadence
6	Computer Communication Lab	Network Simulators 16.04,NAM_1.14_amd64.deb
<b>DEPARTMENT: MECHANICAL ENGINEERING</b>		
1	CAED LAB	Solid Edge 2021

2	CAMD LAB	Solid Edge 2021
3	CIM LAB	CNC Milling &Turning Cadem 6.1
4	CAMA LAB	ANSYS 15.0
DEPARTMENT: CIVIL ENGINEERING		
1	COMPUTER AIDED BUILDING PLANNING AND DRAWING	STAAD PRO, AUTOCAD, PRIMAVERA,MS PROJECT
2	SOFTEARE APPLICTION LAB	
3	COMPUTER AIDED DETAILING OF STRUCTURES	
DEPARTMENT: COMPUTER SCIENCE AND ENGINEERING		
1	Database Application	Oracle Database 10g Express Edition
2	Computer Graphics and Visualization	OpenGL(Ubuntu OS)
3	Analog Logic Design and Digital Electronics	Xilinx Software for HDL (9.1i) MultiSim Software for Simulation
4	Micro Processor Lab	Keil µVision 4
5	Computer Networking Lab	NS2 simulator, NetBeans 8.2(Ubuntu OS)
6	Web Programming Lab	Sublime 4 Text Editor XAMPP 8.1.4
7	Mobile Application Development Lab	Android Studio
8	Machine Learning Laboratory	Anaconda Navigator(Individual Edition)

## **16. List of Research Projects/Consultancy Works**

### **1. Number of project carried out, funding agency, grant received (kscst funded projects)**

Sl. No.	Project title	Branch	Name of the guide(s)	Name of the student(s)	Amount sanctioned by kscst(rs.)
1	Bearys hostel wastewater treatment bycoconut shell activated carbon and laterite as a low cost adsorbents	Civil engineering	Shareefa r nadaf bharath gowda	Zulaika haifa afrin kadeejath shamila mariyamath aseela	5,000.00
2.	"namma vidya chawadi - e-learningplatform for under-privileged"	Computer science and engineering	Prof. Umme najma S.K	Haleema shereefa Abbas salith Aysha surayya Mohammed bilal	4,000.00
3.	Smart safety device for sewage workers	Computer science and engineering	Prof. Umaira	Saad adam bandady nigah rehem shaik s a sajjad ahmed faiza shareef	4,000.00
4.	Brain signal controlled home automationsystem	Electronics and communication engineering	Dr. Abdullah Gubbi	Mahammadmatee n bagawan uzair ahamed Abdul adhil	6,000.00
5.	Autonomous blood sample delivery robotfor k.s hegde hospital, Mangalore	Mechanical engineering	Dr. Imran Mokashi	Akram mohamed hussain Beena mandal Mohammed afshan Swasthik	7,000.00



## 2. Research Publications

### DEPARTMENT OF CIVIL ENGINEERING

#### 1. Prof. Altamashuddin Khan

- a) Nadimalla, A., Masjuki, S. A., Saad, S. A., Ali, M., Husain, N. M., Azahar, W. N. A. W., & Kasim, N. (2021). Correlation Between Slump, {VeBe} and Compaction Factor of Concrete Containing Shredded {PET} Bottles, Manufactured Sand (Msand) and River Sand as Fine Aggregate. {IOP} Conference Series: Materials Science and Engineering, 1051(1), 12098. <https://doi.org/10.1088/1757-899x/1051/1/012098>
- b) Nadimalla, Altamashuddinkhan, Masjuki, S. A., Saad, S. A., Othman, N. H. B., & Ali, M. (2020). The Recycled Polyethylene Terephthalate ( PET ) Bottles Waste as a Fine Aggregate Replacement in Concrete. TEST Engineering & Management, 1093, 1093–1096.
- c) Nadimalla, A., Masjuki, S. A., Saad, S. A., Ali, M., & Norhisham, S. (2020). The Relation of Compression Strength with Modulus of Rupture and UPV of Concrete Containing M-sand as Fine Aggregate. Advances in Science, Technology and Engineering Systems, 5(5), 39–46. <https://doi.org/10.25046/aj050506>
- d) Nadimalla, A., Masjuki, S. A., Saad, S. A., Woen, E. L., Ali, S. M., & Ulla, N. (2020). The Impact of Manufactured Sand (M-Sand) as Partially and Fully Replacement of Fine Aggregate in Concrete. Advances in Science, Technology and Engineering Systems, 5(1), 302–306. <https://doi.org/10.25046/aj050138>
- e) Nadimalla, A., Masjuki, S. A. B., Saad, A. B., Mohd Ismail, K. B., & Bt Ali, M. (2019). Polyethylene Terephthalate (PET) Bottles Waste as Fine Aggregate in Concrete. International Journal of Innovative Technology and Exploring Engineering, 8(6 Special Issue 4), 1177–1180. <https://doi.org/10.35940/ijitee.F1243.0486S419>
- f) Nadimalla, A., Masjuki, S. A. B., Khan, S. A., & Akshatha, B. A. (2018). The Effect of Replacement of Natural Sand by Manufactured Sand on the Properties of the Concrete. 2018 IEEE 5th International Conference on Engineering Technologies and Applied Sciences, ICETAS 2018, 22–23. <https://doi.org/10.1109/ICETAS.2018.8629206>

Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57207766980> Google

Scholar Link: <https://scholar.google.com/citations?hl=en&user=MrtXv9AAAAAJ>

#### 2. Prof. Shareefa R Nadaf

1. Presented and published paper in the International Webinar on Recent Advances In Science and Technology Held On 18-19 July 2020 Department Of Chemistry Birla Institute Of Technology Ranchi India.
2. Presented Paper in National Level Technical Symposium ALCHEMIST-2020 Conducted On 16 June 2020, Department Of Chemical Engineering, KLE College of Engineering Belagavi, Karnataka, India.
3. Shareefa Nadaf, Prakash Kalburgi, Optimization of Fenton Process for The Degradation 1-Butyl-3

Methyl Imidazolium Chloride (BMIMCl) Using Response Surface Methodology” *Nature Environment Pollution Technology* vol 21, No 3 (September) 2022.

4. ShareefaNadaf, Prakash Kalburgi , A study on degradation of 1-Ethyl- 3- Methylimidazolium chloride and 1-Butyl-3 Methyl Imidazolium Chloride (BMIMCl) by fenton process and optimisation Using Response Surface Methodology” *Indian journal of environmental protection. (accepted) 2021.*

### 3. Prof. Purushothama CT

1. Purushothama.C.T<sup>a</sup> , I. R. Mithanthaya<sup>b</sup>, “Comparative Study of Conventional and Partial RCC Beams and Slabs for Flexural and Shear strength – A review”, *Turkish Journal of Computer and Mathematics Education* Vol.12 No.10(2021), 126-128
2. Purushothama.C.T<sup>[1]</sup>, Harshith H J<sup>[2]</sup> “Stiffening of Earthquake Resistant Green Buildings “, © 2019 JETIR May 2019, Volume 6, Issue 5 [www.jetir.org](http://www.jetir.org) (ISSN-2349-5162)
3. Akshatha K S | Prof. Purushothama C.T, “Comparative study of static and dynamic analysis of regular and irregular structure by different types of analysis”, *IJSART - Volume 3 Issue 6 – JUNE 2017* ISSN [ONLINE]: 2395-1052
4. Purushothama. C. T<sup>1</sup> , Dr. I. R. Mithanthaya<sup>2</sup>, “Flexural and shear strength of partial RCC beams and slabs – A review”, *IJSART - Volume 2 Issue 6 –JUNE 2016* ISSN [ONLINE]: 2395-1052
5. Purushothama. C. T<sup>1</sup> , Dr. I. R. Mithanthaya<sup>2</sup>, “. Architectural problems in Earthquake resisting Structures”, *International Journal of Scientific & Engineering Research, Volume 7, Issue 6, June-2016*

### 4. Prof. Zaheer Ahmed

1. Zaheer Ahmed, Mohammed Rafeeq and MeftahHarai “Application of the Soft Computing with Impedance Based Techniques for Structural Health Monitoring of Civil Infrastructure: An Overview”

## **DEPARTMENT OF PHYSICS - In Journals**

1. **Vinutha P R**, Jayarama A, Kaliprasad C S, Narayana Y, Byrappa K, Madan Kumar S and Suresh Kumar M R, Synthesis, Single Crystal Structure and Spectroscopic Aspects of Chalcone 2(2E)-1-(4'-bromobiphenyl-4-yl)-3-(2,3-dimethoxybenzaldehyde)prop-2-ene-1-one, *Chemical data collection* (Elsevier), 9–10 (2017) 208–219
2. **Vinutha P R**, Jayarama A, Kaliprasad C S, Narayana Y and Suresh Kumar M R, Synthesis, spectral characterization, optical and crystal structure studies of (2E) -1- (4' -bromobiphenyl -4- yl) -3- (2-methoxyphenyl) prop-2-en-1-one, *International Journal of Pure and applied physics*, Volume 13, Number 3 (2017), pp. 335-342
3. **Vinutha P R**, Jayarama A, Kaliprasad C S, Narayana Y and Suresh Kumar M R NLO and optical property of newly synthesized chalcone compound (2e) -1- (4'- bromobiphenyl -4- yl) -3- (3 -bromo -4-methoxyphenyl)prop-2-en-1-one, *International Journal of Physics and Applications*, Volume 9, Number 1 (2017), pp. 25-31.
4. Kaliprasad, C. S., **Vinutha, P.R.**, Narayana, Y., Natural radionuclides and radon exhalation rate in the soils of Cauvery River basin., *Air, Soil and water Research* (2017),<https://doi.org/10.1177/11786221177469>
5. Kaliprasad, C. S., **Vinutha P R.**, Narayana, Y., Studies on the distribution of radionuclides and clay minerals in the soils of Cauvery river environs. *Journal of Radioanalytical and nuclear chemistry* (2018).

6. **Vinutha P R**, Jayarama A, Kaliprasad C S, Narayana Y and Suresh Kumar M R, Synthesis and spectral characterization of new chalcone single crystal, *Recent advances in materials science and biophysics*, volume 1, (2018), pp. 352-355.
7. **Vinutha P R**, Jayarama A, Kaliprasad C S, Narayana Y and Suresh Kumar M R, Nonlinear optical properties and X-ray diffraction studies on newly synthesized chalcone crystal. *Recent advances in materials science and biophysics*, volume 1, (2018), pp. 366-370.
8. Narayana Yerol, Sandesh Achari, **Vinutha P R**, Kaliprasad C S, Prafulla and Shrinidhi Kini . Radiological hazards from construction materials in the vicinity of thermal power station, *Journal of Emerging Technologies and Innovative Research (JETIR)*, 2019. www.jetir.org (ISSN-2349-5162)
9. **Vinutha P R**, Kaliprasad C S, Jayarama A and Narayana Y, Crystalline and optical properties of new synthesized chalcone compound (2E)-1-(4'-bromobiphenyl-4-yl)-3-(2,3-dichlorophenyl)prop-2-en-1-one, 2020, *Materials Today Proceedings*, Elsevier, <https://doi.org/10.1016/j.matpr.2020.03.156>.
10. Malleshi kavasara, **Vinutha P R**, Kaliprasad C S and Narayana Y, (2021) Studies on the dependence of natural radioactivity on clay minerals of soils in Davanagere district of Karnataka, India, *Journal of Radioanalytical and Nuclear Chemistry* (Accepted).
11. Malleshi kavasara, **Vinutha P R**, Kaliprasad C S and Narayana Y, (2021), Assessment of Effective Dose and Radiological Risk from Natural Radioactivity in Rock Samples of Davanagere District, Karnataka, India, *International Journal of Environmental Analytical Chemistry* (Accepted).
12. Sandesh Achari, **Vinutha P R**, Kaliprasad C S and Narayana Y, (2021) Evaluation of radiological hazards due to natural radionuclide in rocks and the dependence of radioactivity on the mineralogy of rocks in Udupi district on the south west coast of India, *Journal of Radioanalytical and Nuclear Chemistry* (Accepted).

## **DEPARTMENT OF MATHEMATICS**

- Ismail, B. and **Anjum Khan** (2012). "Detection of jump and cusp using Haar wavelets in a regression function". *Journal of Wavelet Theory and Applications*, ISSN: 0973-6336, Vol 6, 2, pp 105-110.
- Ismail, B. and **Anjum Khan** (2011). Image de-noising with stationary wavelet transform. *Journal of Wavelet Theory and Applications*. ISSN: 0973-6336, Vol 5, 1, pp 9-14.
- Ismail, B. and **Anjum Khan** (2010). A new threshold value in curve estimation by wavelet shrinkage. *Proceedings of 10th Islamic Countries Conference on Statistical Science (ICCS-X)*, volume II, pp. 786--795.
- R. B. Jummannaver, I. Gutman, R. K. Mundewadi, "On Zagreb Indices and Coindices of Cluster Graphs" *Bull. Acad. Serbe Sci. Arts (Cl. Math. Natur.)*, (Preprint)
- H. S. Ramane, R. B. Jummannaver, S. Sedghi, Some degree based topological indices of generalized transformation graphs and of their complements, *International Journal of Pure and Applied Mathematics*, 109(3) (2016), 493 – 508. (Bulgaria) ISSN: 1311-8080 (Print) 1314-3395 (Online). doi: 10.12732/ijpam.v109i3.2
- H. S. Ramane, R. B. Jummannaver, **Anjum Khan**, "Forgotten index of subdivision graph of some chemical structures" *Journal of Mathematical Nanoscience*. (Communicated).
- **Anjum Khan**, R. B. Jummannaver, "Arithmetic-Geometric index of generalized transformation graphs",

Asian Journal of Mathematics and Computer Research, 25(1) (2018), 1-7.

- Ismail, B. and **Anjum Khan** (2012). Image de-noising with a new threshold value using wavelets. Journal of Data Science. ISSN: 1683-8602, Vol 10, pp 259-270.
- S.C. Shiralashetti, H. S. Ramane, R.A. Mundewadi, R.B. Jummannaver "A Comparative Study on Haar Wavelet and Hosaya Polynomial for the numerical solution of Fredholm integral equations", *Applied Mathematics and Nonlinear Science*, 3(2) (2018), 447 – 458. (Spain) ISSN: 2444-8656.
- **Anjum Khan**, Basit Ali Reshamwale, **Sharan Hegde**, **sowmya Ashwin Shetty**, "On RHF and Bernoulli Polynomial for the numerical solution of differential equations" *IJSEM*, \*7,\*(3), 2394. ISSN 2394-6849.
- **Sharan Hegde**, Anjum Khan, Vinay Prasad T, "First Redefined Zagreb index of generalized transformation graph" *IJSEM*, \*7,\*(3), 2394. ISSN 2394-6849
- Vinay Prasad, **Sharan Hegde**, Afshan Tarannum, "Second Redefined Zagreb index of generalized transformation graph" *IJSEM*, \*7,\*(2), 2022. ISSN 2394-6849.
- Ismail B. and **Anjum Khan** (2011). Image thresholding using discrete wavelet transform. *Presented at XXXI Annual Convention of Indian Society for Probabilities and Statistics (ISPS) and International Conference on Statistics, Probability and related areas. CUSAT, Cochin. December 2011.*
- Ismail, B. and **Anjum Khan** (2011). "Image denoising with a new threshold value using wavelets". *Presented at International Conference on Actuarial Statistics Biostatistics and Stochastic modeling. Kannur University, Kannur. January 2011.*
- Ismail, B. and **Anjum Khan** (2009). "A new threshold value in curve estimation by wavelet shrinkage". *Presented at ICCS-X, Tenth Islamic Conference on Statistical Science, Cairo, Egypt, December 2009.*
- **Anjum Khan** and R. B. Jummannver, (2019), "Forgotten topological index of subdivision graph of some chemical structures" *Presented at SURF, Bearys Institute of Technology Innoli Mangalore.*

### **Shaikh Ameer Basha**

- PBIB-Designs and matrix form of association schemes arising from minimum Edge covering sets of some Circulant graphs.
- PBIB-Designs and association schemes arising from minimum Edge independence sets of some Circulant graphs.
- Gourava indices of some dendrimer structures, *Journal of Research Reviews*, 2018.
- Different Versions of Atom-Bond Connectivity Indices of Some Molecular Structures: Applied for the Treatment and Prevention of COVID-19, Polycyclic Aromatic Compounds,
- DOI: 10.1080/10406638.2021.1872655.
- PBIB-Designs and association schemes arising from minimum neighborhood sets of some Circulant graphs, *International J.Math. Combin. Vol.1(2021), 1-10.*
- PBIB-Designs and association schemes arising from minimum dominating sets of some Circulant graphs (Communicated).
- PBIB-Designs and association schemes arising from minimum covering and maximum
- Independence sets of some Circulant graphs (Communicated).
- Connected domination value in graphs (Communicated).

- Self-domination in graphs (Communicated).
- Generalized Schultz and Gutman indices in graphs (Communicated).

## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Prof Mohammed Sinan	<ol style="list-style-type: none"> <li>1) Comparative analysis on network intrusion detection using Machine Learning. (SURF 2020)</li> <li>2) Architecture of an IOT based system for cricket supervision (SURF 2019) JETIR May 2019 Vol 6</li> </ol>
Prof Nubila Jaleel	<ol style="list-style-type: none"> <li>1) Security Analysis of LNMNT – lightweight crypto hash function for IOT. (IEEE Access Vol 19 PP 165754-165765)</li> <li>2) Performance evaluation of light weight crypto function for IOT application. (JAR DCS Vol 12 Issue 02 PP 800-808)</li> <li>3) IOT lightweight crypto functions (ijTM) Vol 13 PP 117-129</li> </ol> <p><b>CONFERENCE:</b> LNMNT new Mersenne Number based light weight crypto hash function for IOT (IEEE, 2021) Page no 68-71</p>

## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **RESEARCH PAPERS PUBLISHED BY FACULTY IN JOURNALS**

S.N	Name of the Faculty	Title of Paper	Publication citation	National or International Journal	Remarks
1	Dr. Vasantha Kumar	Zirconia: as a biocompatible biomaterial used in Dental implants	Advances in Applied Ceramics, Dec 2020, pp 1-7	International	Published
		Effect of Mechanical Properties on Multi Axially Forged LM4 Aluminium Alloy	Materials Today Proceedings, Vol 24, May 2020, pp 1462-1467	International	Published
		Design and Fabrication of Solar Operated Vegetable Cart	International Journal of Engineering Research in Mechanical Engineering & Civil Engineering, Vol 8, Nov 2021, pp 58-62	International	Published
2	Prof. Arvind Kumar	Active control behavior on the flow pattern in a circular duct	Active control behavior on the flow pattern in a circular duct, ISSN 22147853 10 November 2021	International	Published
		Impact of microjets on the flow of a duct	Materials Today: Proceedings ISSN 22147853 25 September 2021	International	Published
3	Dr. Imran Mokashi	Maximum temperature analysis in a Li-ion battery pack cooled by different fluids	Journal of Thermal Analysis and Calorimetry, Vol 141, Issue 6, July 2020, pp 2555-2571	International	Published

		Optimization and analysis of maximum temperature in a battery pack affected by low to high Prandtl number coolants using response surface methodology and particle swarm optimization algorithm	An International Journal of Computation and Methodology Vol 79, Issue 5, Nov 2020, pp 406-435	International	Published
		Nusselt number analysis from a battery pack cooled by different fluids and multiple back-propagation modelling using feed-forward networks	International Journal of Thermal Sciences Volume 161, Nov 2020, 106738	International	Published
		Impact of micro jets on the flow of a duct	Materials Today: Proceedings ISSN 22147853 25 September 2021	International	Published
		Biodiesel Production Using Modified Direct Transesterification by Sequential Use of Acid-Base Catalysis and Performance Evaluation of Diesel Engine Using Various Blends	Sustainability Volume 13, Issue 17 Pages 9731, 30 August 2021	International	Published
		Adsorption Method for the Remediation of Brilliant Green Dye Using Halloysite Nanotube: Isotherm, Kinetic and Modeling Studies	Applied Sciences Volume 11, Issue 17 Pages 8088, 31 August 2021	International	Published
		Performance of Common Rail Direct Injection (CRDi) Engine Using Ceiba Pentandra Biodiesel and Hydrogen Fuel Combination	Energies Volume 14, Issue 21, Pages 7142, 1 November 2021	International	Published
		Active control behavior on the flow pattern in a circular duct	Materials Today: Proceedings ISSN 22147853 10 November 2021	International	Published
4	Prof. Mohamed Kafeel Delvi	Analyses of Influence of Wear Parameter for Results Conducted for Al7039 Reinforced MoS2 Metal Matrix Composite Using Taguchi's Method.	Journal of Industrial Mechanics, 5, 1, Apr 2020, 26-30	International	Published
		Hardness Examination of ZA 27/MoS2 Hybrid metal matrix composite using Vicker and Brinell hardness test	Turkish Journal of Computer and Mathematics Education Vol. 12 No. 10 March 2021, 1519-1523	International	Published
		Dry Sliding Wear Behaviour of ZA27/ MoS2 Metal Matrix Composite	Advances in Science, Technology and Engineering Systems Journal Vol. 6, No. 3, 263-270 March 2021	International	Published
		Sliding Wear Behaviour of Al 7039/MoS2 Metal Matrix Composite	International Journal of Science, Technology, Engineering and	International	Published

			Management–A VTU Publication Vol: 3, No:1, pp: 8-14, March 2021		
5	Prof.Vinod Kumar	Design Modeling and analysis of Helical Gear using FEA for various materials	International Journal of Engineering Research and Applications, Vol 10, Issue 3, March 2020	International	Published

### 3. MoUs with Industries

1	North Dakota State University, USA
2	Govt. Tool Room And Training Centre-Baikampady, Mangalore
3	Petrocon Engineers and Consultants
4	Novigo Solution, Mangalore
5	AI Robosoft, Bangalore
6	Technologies Global Pvt Ltd, Bangalore
7	Infosys ETA
8	Tech-Graylogix, Mangalore
9	Bearys Properties and Developments Pvt Ltd
10	NPTEL

#### **Best Practices Adopted:**

A **best practice** is a good practice initiated, implemented in the Institution, and that has consistently shown good results. Further these Practices are used as a benchmark for further improvement.

The best practices adopted are listed below:

- Shiksha Suraksha
- Talent Hunt
- Each one Plant One
- Assembly of students and teachers in the morning

#### **VISION:**

“To be a world-class engineering institution that nurtures leaders in every field of Engineering & Technology and grooms knowledgeable men and women with the highest ethics and values, who can significantly contribute to a progressive, peaceful, and greener world”.

#### **MISSION:**

1. Creating a stimulating academic environment by achieving excellence in teaching-learning process to meet the growing needs of the industry and society.
2. Fostering innovation and creativity through constant research with competent human resources & state-of-the-art infrastructure.
3. To transform and steer society towards a sustainable green environment and instil value-based education for a better world

## **MOTTO:**

We are confident that our motto “Purity of Heart – Clarity of Mind” will help us realize our vision. With our carefully crafted academic programs and curriculum, coupled with various personality development programs, we aim to instill the pursuit of excellence. We inculcate a sense of purpose in our students and encourage them to uphold basic human values, respect nature, and help the weak and disadvantaged through several student-club activities. Nature & Nurture play an important part in imparting holistic education.

## **How do you assess the student knowledge needs & skills?**

- The ability to learn and grow within the organization.
- The ability to communicate proficiently.
- The ability to successfully interact with others.
- Evaluate student by way of writing and depth of learning has been combined with faculty learning and team assessments, and is now being used at multiple institutions.

## **What are the mechanism adopted for self-appraisal of Faculty?**

We have a detailed Self- Appraisal carried out by Faculty members and submitted to the Principal through the HoDs. The parameters on which the Self - Appraisal form are created include the following

Performance of students based on the subjects handled

Workshops seminars and conferences conducted and attended

Based on the Projects guided, Research Contribution through funded projects, and Research Publications of the faculty members.

Based on the Extension Activities of the faculty members and Self-review & development.

Contribution to the College in conducting events, programs and leadership in Co-Curricular and Extra-curricular activities etc.

## **What are the measures taken in the last three years related to quality aspects?**

### **The institution has constituted Quality Assurance Committee:**

- a) Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks;
- b) Introduction to New Programmes viz. AI & DS
- b) The relevance and quality of academic and research programmes;
- c) Optimization and integration of modern tools and methods of teaching and learning;
- d) The credibility of evaluation procedures.
- e) Sharing of research findings.

### **Some of the functions of QAC are:**

- a) Implementation of Outcome Based Education(OBE) Process.
- b) Development and application of quality benchmarks/parameters for various academic and



- administrative activities of the institution;
- c) Arrangement for feedback response from students.
- d) Initiation of New programme in Artificial Intelligence and Machine learning
- e) Organization of inter and intra institutional workshops & seminars.
- e) Documentation of the various programmes/activities leading to quality improvement;
- f) Promote extension activities in the surrounding areas.

**How does the college promote interest and participation of students in research activities through its academic programs?**

The final year students are encouraged to take up integrated projects and publish papers. Further, encouragement to pre-final and final year students to undergo internship programme during their vacation period in reputed industries, in addition to this programme we take the students to visit various types of industries to expose them to the practical applications. We encourage and prepare the students to present papers in National and International Conferences, further we stress them to submit good quality papers to publish in reputed journals.

**Student support and progression**

Department faculty members are involved in covering the defined University syllabus, apart from discharging regular responsibility; the department encourages the Fast learners to prepare good projects in thrust area and on recent trends and preparing them to present papers in reputed conferences. All the students are responding with good spirit and energy to participate in whatever the new system is introduced by the respective departments, this has enhanced their various skills and confidence level, further this has reflected in establishing molding the students as a complete engineer in all respects, so that they will become industry ready after completing engineering programme, also helps reaching good University results.

**Mechanism developed to get feedback from students. Provide feedback analysis and action taken.**

We have a mechanism to draw the students' feedback at regular intervals in order to analyze the strengths & weakness of the Teaching Learning process, further the facts are discussed in the department meetings, suggestions will be given to such faculty members to adopt new concept / to change the methodology or line of teaching to reach the expectations of the students.

**Do you have Alumni Association in your college? If yes, frequency of interactions and nature of feedback support.**

YES,

Alumni Association meeting is held once in six months, alumni are invited to interact with current students on new technologies adopted by the industry and to bring an awareness about what industry is expecting from young minds. Alumni are actively involved in assisting for training the students on soft skills, in placement activities and also to get internship for students in various industries.

**What measures has your college taken in the last three years to translate quality to its various administrative and academic units? (IQAC, Academic Audit Cell, etc.)**

Our Institution has constituted Quality Assurance Committee: The main purpose of establishing IQAC in order to support the following:

- a) Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks;
- b) The relevance and quality of academic and research programs;
- c) Optimization and integration of modern tools and methods of teaching and learning;
- d) The credibility of evaluation procedures;
- e) Sharing of research findings and networking with other institutions.

**What mechanisms have been developed by your college for Quality Assurance within the existing Academic and Administrative Units?**

Some of the functions of QAC are:

- a) Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution;
- b) Arrangement for feedback response from students.
- c) Organization of inter and intra-institutional workshops & seminars.
- e) Documentation of the various programs/activities leading to quality improvement;
- f) Development of Quality Culture in the institution.

**What intervention strategies have your college adopted to promote the overall development of student's form disadvantaged sections? Please provide their incremental growth in the last three years.**

Efforts are being made by the departments to help students deal with specific academic weaknesses. Adopting innovative teaching practices in the classroom – of which many examples are given in the next section, and be focused on the Slow Learners and also attention is paid to all other students.

We are offering remedial classes either during the semester (say, in the evenings, on weekends).

Another approach is to provide extra inputs in more innovative ways, such as:

- Tutorial classes where additional problems are solved and students interact with faculty member.
- Participation of such students in the classroom is encouraged because it engages students more, builds their confidence, and helps clear their doubts. The results are quite encouraging in the last three years.
- **Our Participative and Peer to Peer learning methodologies of learning are also the main focus of improving the Results.**

**Is there any internal mechanism for analyzing student feedback on the performance of the college to arrive at student satisfaction index? Please provide the supporting documents for the previous academic year.**

An internal mechanism is in place to draw the students' feedback at regular intervals in order to analyze the Pros and Cons of the teaching-learning process. Further, the facts are discussed in meetings, if required suggestions will be given in person, in order to change the methodology or line of teaching to reach the expectations of the students and to keep the satisfaction index of the students at a higher level. Industrial visits, and extension programs are frequently conducted to enhance the skill and ensure students have empathy for nature, and people.

A committee comprising the Principal, HOD's and all senior faculty members is formulated to ensure the active participation of faculty members to produce quality research papers to present in international conferences and to publish in reputed journals. The committee also encourages junior faculty members to register for the Ph.D. program in reputed universities.