



# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust®

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## REPORT ON THE ACADEMIC AUDIT (Academic Year June, 2021 - May, 2022)

**1. Name of the Department:** Computer Science and Engineering

**2. Vision of the Department:** To adapt to the evolutionary changes in computer science and expose the students to cutting-edge technologies to produce globally competent professionals.

**3. Mission of the Department:** M1: To ensure holistic professional education in the field of computer science & engineering and produce efficient industry ready IT graduates capable of solving societal problems to be a part of nation building.

M2: To provide an inspirational atmosphere in the department to nurture research and innovation capabilities among students and faculties making them good innovators and visionaries.

M3: To Establish a vibrant Industry-Academic relationships and collaborations among the individuals having the opportunities to work on the latest technologies and professional challenges with integrity.

M4: To Cultivate students with professional skills, foster innovative research endeavors, and cultivate entrepreneurial capabilities.

**4. Sanctioned Intake (Program wise) :**

Sl.NO:	Name of Program	Sanctioned Intake	Number of Students Admitted
1	Computer Science and Engineering	60 + 03	61

**5. Overall Demand Ratio:** 100 %

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## 6. Students Enrollment (Program wise) :

Program	Female	Male	Total
Computer Science and Engineering	28	33	61

## 7. Result Analysis:

Semester	Total No. of Students	Total No. of Absentees	Total No. of Students Appeared	FCD	FC	SC	PASS	FAIL	Pass %	PI (%)
1	61	0	61	28	10	3	0	20	76.2	0.7328
2	61	0	61	28	10	3	0	20	76.2	0.7328
3	58	01	57	8	16	11	35	22	61.4	0.6531
4	58	01	57	18	18	11	47	10	82.45	0.6491
5	64	02	62	24	17	6	47	15	75.80	0.6797
6	64	03	61	31	19	3	53	8	86.88	0.7436
7	67	0	67	37	21	4	0	5	92.52	0.7462
8	67	0	67	65	2	0	0	0	100	0.8536

## 8. Number of classrooms and Laboratories with ICT facilities:

CLASS ROOM DETAILS				
Department	Room No.	Covered area (sq. Ft)	ICT enabled (Yes/No)	
CSE-Second year	A-315	116 Sq m	Yes	
CSE-Third year	A-317	116 Sq m	Yes	
CSE-Final year	A-318	116 Sq m	Yes	
CSE-Tutorial class	A-316	116 Sq m	Yes	

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LABORATORY DETAILS			
Department & Name of the LAB	Room No.	Covered area (sq. Ft)	List of Major Components (with quantity)
CSE-COMPUTING LAB 1	A-323	130 sq mtr	Intel core i3-4170/i3-9100/i3-6100/i3-8100 Processor, 4 GB/8 GB RAM, 500GB/1TB HDD, 18.5" Acer Monitor, Acer Keyboard & Mouse.
CSE-COMPUTING LAB 2	A-324	130 sq mtr	Intel core i3-4170/i3-9100/i3-6100/i3-8100 Processor, 4 GB/8 GB RAM, 500GB/1TB HDD, 18.5" Acer Monitor, Acer Keyboard & Mouse.
CSE-COMPUTING LAB 4	A-322	75 sq mtr	Intel(R) Core (TM) i5-12400 12 th generation Processor, 16GB RAM, 1TB M.2 SSD Acer USB keyboard & USB Optical Mouse NVIDIA GT730 4GB DDR3 Graphic Card WIFI & Bluetooth module Acer 19.5" Monitor
CSE-COMPUTING LAB 5	A-322-A	75 sq mtr	Intel(R) Core (TM) i5-12400 12 th generation Processor, 16GB RAM, 1TB M.2 SSD Acer USB keyboard & USB Optical Mouse NVIDIA GT730 4GB DDR3 Graphic Card WIFI & Bluetooth module Acer 19.5" Monitor
CSE-COMPUTING LAB 3	A-325	130 sq mtr	Intel(R) Core (TM) i5-12400 12 th generation

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			Processor, 16GB RAM, 1TB M.2 SSD Acer USB keyboard & USB Optical Mouse NVIDIA GT730 4GB DDR3 Graphic Card WIFI & Bluetooth module Acer 19.5" Monitor
CSE-COMPUTING LAB 6	A-304	115 sq mtr	Intel core i3-4170/i3-9100 Processor, 4 GB/8 GB RAM, 500GB/1TB HDD, 18.5" Acer Monitor, Acer Keyboard & Mouse.
CSE-COMPUTING LAB 7	A-307	115 sq mtr	Intel(R) Core (TM) i5-12400 12 th generation Processor, 16GB RAM, 1TB M.2 SSD Acer USB keyboard & USB Optical Mouse NVIDIA GT730 4GB DDR3 Graphic Card WIFI & Bluetooth module Acer 19.5" Monitor
CSE-COMPUTING LAB 8	A-310	115 sq mtr	Intel(R) Core (TM) i3-6100/i3-4170/i5-12400 Processor, 4GB/8GB/16GB RAM, 500GB/1TB/1TB M.2 SSD Acer USB keyboard & USB Optical Mouse NVIDIA GT730 4GB DDR3 Graphic Card WIFI & Bluetooth module Acer 19.5" Monitor
CSE-COMPUTER PROGRAMMING LAB	A-112	116 sq mtr	Intel core i3-4170/i3-9100 /i3-6100 Processor, 4 GB/8 GB RAM 500GB/1TB HDD, 18.5" Acer Monitor, Acer Keyboard & Mouse.

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9. Total number of computers available for students: 267

10. No. of students qualifying in State/ National/ International level examinations (eg: GATE/GMAT/CAT/GRE/TOEFL/IELTS Civil services/State Government examinations):

11. Details of Students Achievements:

TECHNICAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
						1	Mr. Atreya and Mr. Sharath Kumar won Third Place in the State Level Engineering Students Project Exhibition Competition "SRISHTI-2022" held at Bangalore.	1			Keith Veigas , Kannan have secured First Prize in Mangalore Region, Finalist from the State of Karnataka and Secure 6th place in TCS Tech Bytes organized by Board of IT education standards and tata consultancy services in the academic year 2020-2021
											Ms. Isha



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												Sheik is selected as Google Developer Student Club Lead at our institute for the year 2022
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CULTURAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
-	-	-	-	-	-	-	-	-	-	-	-

SPORTS											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
						5	MsNamratha Shetty has won 5 Bronze medals in freestyle swimming organized by Visveswaraya Technological University in 2021.				

## 12. Details of Student Publications in Conferences/Journals

  
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Title of the paper	Name of the author(s)	Details of the Publication
Carbon Emission and Battery Monitoring System	Deeksha D Shenoy, K V Bhoomika, Karishma Shetty, Keerthana R, Dr. LaxmiGulappagol	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 10, Issue 5, pp.1-22, May- 2022. ISSN: 2321-9653
A Survey on Detection and Diagnose of Malnutrition	Mrs. Snitha Shetty, Lavita Gloria Lobo, Monisha D, Nidhi K, Sanjana Shetty	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 10, Issue 5, pp.22952298, May- 2022. ISSN: 2321-9653
CROWN SERVICES CONNECTING NEIGHBOURHOOD SERVICES	Anita Ramakrishna Bhat, Chandana I, VishakhaKotech a, Nikita R M	International Research Journal of Modernization In Engineering Technology And Science (IRJMETS), Volume 4, Issue 05, May 2022.

### 13. Details of Students completed Certification Programs

Year	No of Students	Name of the Course and Course Provider
1 <sup>st</sup>	1	C Programming and C++, Mice
1 <sup>st</sup>	1	Python from A to Z, Developer student clubs
1 <sup>st</sup>	1	C- Basics, Learn tube
1 <sup>st</sup>	1	The fundamentals of Digital marketing,iab Endorsed
2 <sup>nd</sup>	-	
3 <sup>rd</sup>	-	
4 <sup>th</sup>	1	Front End Development- CSS, Great Learning
4 <sup>th</sup>	4	Front End Development- HTML, Great Learning
4 <sup>th</sup>	4	Java Programming, Great Learning
4 <sup>th</sup>	3	MYSQL Basics, Great Learning
4 <sup>th</sup>	1	Data Structures in C, Great Learning
4 <sup>th</sup>	1	Introduction to Digital marketing, Great Learning
4 <sup>th</sup>	1	SQL for Data Science, Great learning
4 <sup>th</sup>	1	Introduction to Data Mining , Great learning
4 <sup>th</sup>	1	Introduction to Django, Great learning
4 <sup>th</sup>	2	SQL, Solo Learn
4 <sup>th</sup>	1	HTML, Solo Learn
4 <sup>th</sup>	1	Java Script, Solo Learn
4 <sup>th</sup>	1	Python for beginners ,Solo Learn
4 <sup>th</sup>	1	Web Development, mycaptain

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4 <sup>th</sup>	1	Web Development, SmartKnower
4 <sup>th</sup>	1	HTML, CSS, Javascript, Udemy
4 <sup>th</sup>	1	Mobile Application Development, AJIET
4 <sup>th</sup>	1	Introduction to Data Science, Cognitive Class.AI
4 <sup>th</sup>	1	Python, GUVI
4 <sup>th</sup>	1	Python an Deep Learning, ShapeAI
4 <sup>th</sup>	1	Technical support fundamentals, Google
4 <sup>th</sup>	1	Python Programming, Bridget Learning Acaemy
4 <sup>th</sup>	1	Java Programming, Great learning
4 <sup>th</sup>	1	IoT Wireless an Cloud computing Emerging Technologies, Yonsei University

## 14. Details of Student Undergone Internships

Year	No of Students	Details of the Company
1 <sup>st</sup>	-	-
2 <sup>nd</sup>	-	-
3 <sup>rd</sup>	-	-
4 <sup>th</sup>	18	RunShaw Technologies Pvt Ltd
4 <sup>th</sup>	3	Zephyr Technologies & Solutions Pvt Ltd
4 <sup>th</sup>	9	TakeiT Smart [OPC] PVT LTD
4 <sup>th</sup>	2	Tech Fortune Technologies
4 <sup>th</sup>	1	Cognitive Solutions
4 <sup>th</sup>	3	OriginTech
4 <sup>th</sup>	3	SmartKnower
4 <sup>th</sup>	3	Innovation Creation
4 <sup>th</sup>	2	Prinston Smart Engineers
4 <sup>th</sup>	3	Kakunje Software Pvt Ltd
4 <sup>th</sup>	1	The Hangar, Nus Enterprise
4 <sup>th</sup>	2	AgileTEC
4 <sup>th</sup>	1	Elite Techno Groups, Skill India Internship
4 <sup>th</sup>	1	Forage
4 <sup>th</sup>	3	CompSoft Technologies,

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4 <sup>th</sup>	1	Knowledge lens Pvt Ltd
4 <sup>th</sup>	1	Airobotica Services Pvt Ltd
4 <sup>th</sup>	1	Cyber Sapiens United LLP
4 <sup>th</sup>	1	Rinex
4 <sup>th</sup>	1	VA
4 <sup>th</sup>	3	e-Brain Softech Pvt Ltd
4 <sup>th</sup>	1	The Sparks Foundation

## 15. Details of students undertaken Mini Projects

Year	Name of the student	Name of the Guide	Name of the project
3 <sup>rd</sup>	Nishanth A Shetty	Dr. Basappa K	Face recognition Music player
3 <sup>rd</sup>	Yomith T Mendon		
3 <sup>rd</sup>	Chirag J Kulal		
3 <sup>rd</sup>	Abhishek D Mankame		
3 <sup>rd</sup>	Akanksha	Dr. Laxmi Gullapagol	Transportation management system
3 <sup>rd</sup>	Akanksha U Saadhana		
3 <sup>rd</sup>	Arva Fathima		
3 <sup>rd</sup>	Nazila Hamed		
3 <sup>rd</sup>	Aneesh M Bhat	Mrs. Sharon C DSouza	Student Companion App
3 <sup>rd</sup>	Divyatej		
3 <sup>rd</sup>	Karthik		

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3 <sup>rd</sup>	Sachin A		
3 <sup>rd</sup>	Harshith J Poojary	Mr. Chanchal Antony	Sports Stock Market
3 <sup>rd</sup>	Lakshmikanth		
3 <sup>rd</sup>	Gayathri MN		
3 <sup>rd</sup>	Mohammed Shamal		
3 <sup>rd</sup>	RitheshNk	Mrs. SaranyaBabu	Code Learning Website
3 <sup>rd</sup>	S Shivani Acharya		
3 <sup>rd</sup>	Vidyakeerthi		
3 <sup>rd</sup>	Sharath		
3 <sup>rd</sup>	Vaishnav E	Mr. SijuSoman	Students - College Interface
3 <sup>rd</sup>	Joel Sam Thomas		
3 <sup>rd</sup>	Joel Joseph		
3 <sup>rd</sup>	Mithun Kumar Umesh		
3 <sup>rd</sup>	Payal	Mrs. Archana S	Spare Parts Management System
3 <sup>rd</sup>	Rahul		
3 <sup>rd</sup>	Shrija		
3 <sup>rd</sup>	Devika		
3 <sup>rd</sup>	Samiksha S Nagwekar	Ms. Nikhila	Online transaction fraud detection
3 <sup>rd</sup>	Sahana M Naik		

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3 <sup>rd</sup>	Dhanya D Shetty		
3 <sup>rd</sup>	Radha Shri Vamsi		
3 <sup>rd</sup>	Nishanth E	Dr. Basappa K	Event Management System
3 <sup>rd</sup>	Thrupthi		
3 <sup>rd</sup>	Suraj J		
3 <sup>rd</sup>	ShradhaSajeevan	Dr. LaxmiGullapagol	Online booking for home service
3 <sup>rd</sup>	AbhijithRajendran		
3 <sup>rd</sup>	Albin Joseph		
3 <sup>rd</sup>	AthulShaji		
3 <sup>rd</sup>	Pratheeksha	Mrs. Sharon C DSouza	E - Book
3 <sup>rd</sup>	S Diya		
3 <sup>rd</sup>	Sinchana		
3 <sup>rd</sup>	Yashaswi		
3 <sup>rd</sup>	Exson	Mr. Chanchal Antony	College database
3 <sup>rd</sup>	Pratheek		
3 <sup>rd</sup>	Aditya R		
3 <sup>rd</sup>	Aman		
3 <sup>rd</sup>	Khushi Pal	Mrs. SaranyaBabu	On demand fuel delivery
3 <sup>rd</sup>	KittuKumari Singh		
3 <sup>rd</sup>	YashikaKrishnani		

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3 <sup>rd</sup>	YuktikaKrishnani		
3 <sup>rd</sup>	Sandeep Benny	Mr. SijuSoman	E - Market
3 <sup>rd</sup>	Sahad Abdulla Cp		
3 <sup>rd</sup>	Shaham Abdulla Cp		
3 <sup>rd</sup>	Albin John		
3 <sup>rd</sup>	Kaushal R		
3 <sup>rd</sup>	R Aditya	Mrs. Archana S	Performing Enhancer
3 <sup>rd</sup>	Sibin T S		
3 <sup>rd</sup>	Omkaresh		
3 <sup>rd</sup>	Jugal		
3 <sup>rd</sup>	Subhan	Ms. Nikhila	Website for orphanage
3 <sup>rd</sup>	Edwin		
3 <sup>rd</sup>	Felixon		
3 <sup>rd</sup>	Sirius		

## 16. Details of students undertaken Major Projects

Year	Name of the student	Name of the Guide	Project Title
4 <sup>th</sup>	Prathiksha	Dr. Antony P J	Vagabond- the Travel App
4 <sup>th</sup>	Unnati K		

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4 <sup>th</sup>	Subhakar		
4 <sup>th</sup>	Manu Kashyap		
4 <sup>th</sup>	Bhavna Sharma	Mr.Siju V Soman	Smart Water Purifier using IoT
4 <sup>th</sup>	Shraddha		
4 <sup>th</sup>	Arpitha M J		
4 <sup>th</sup>	Neha C Naik		
4 <sup>th</sup>	Nireeksha Rai G	Mrs. Archana S	Android App for Dairy Farmers
4 <sup>th</sup>	Pallavi Shetty		
4 <sup>th</sup>	Pujari Riya Prem		
4 <sup>th</sup>	Anita Ramakrishna Bhat		
4 <sup>th</sup>	Chandana I K	Mrs.Sharon D'Souza	Crown Services
4 <sup>th</sup>	VishakhaKotecha		
4 <sup>th</sup>	Nikita R M		
4 <sup>th</sup>	Deeksha D Shenoy		
4 <sup>th</sup>	K V Bhoomika	Dr. LaxmiGulapp agol	Carbon Emission Monitoring System
4 <sup>th</sup>	Karishma Shetty		
4 <sup>th</sup>	Keerthana R		
4 <sup>th</sup>	Lavita Gloria Lobo		
4 <sup>th</sup>	Monisha D	Mrs. SnithaShetty	Detection and Diagnose of Malnutrition in Children using Data Mining and ML
4 <sup>th</sup>	Nidhi K		
4 <sup>th</sup>	Sanjana Shetty		
4 <sup>th</sup>	Meghana Shetty		

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4 <sup>th</sup>	Ranjith N	D'Souza	
4 <sup>th</sup>	Rifthashia		
4 <sup>th</sup>	Snehal		
4 <sup>th</sup>	Anuvinda K V	Mr. BasappaKoda da	Passwaord Manager
4 <sup>th</sup>	Nirmala N B		
4 <sup>th</sup>	InshaNaz		
4 <sup>th</sup>	ChandanaBallala J R		
4 <sup>th</sup>	Akash S	Ms.Nikhila	RECO- Online Rental
4 <sup>th</sup>	Mehroof		
4 <sup>th</sup>	R Srinivas		
4 <sup>th</sup>	Able Sobichan		
4 <sup>th</sup>	Nithish N Shetty	Mrs. Archana S	Automated Shopping Trolley
4 <sup>th</sup>	S. Nithin		
4 <sup>th</sup>	Shivashankar B. N.		
4 <sup>th</sup>	Karthikeya Kumar		
4 <sup>th</sup>	Akshay D T	Mr. Vijaykumar D	Skin Disease Detection
4 <sup>th</sup>	Karthikeya Nerolu		
4 <sup>th</sup>	Sarthak		
4 <sup>th</sup>	Bharath Raj Shetty		
4 <sup>th</sup>	Rai NinadBhaskar	Mr.Siju V Soman	Sign Language Recognition
4 <sup>th</sup>	Shetty Chirag Divakar		
4 <sup>th</sup>	Shihab Abdul Rahiman		

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4 <sup>th</sup>	Ramyashree	Mr. Chanchal Antony	Sharing is Caring- Charitable Trust Website
4 <sup>th</sup>	Saachya S Shetty		
4 <sup>th</sup>	Ananya R Shetty		
4 <sup>th</sup>	SabhyathaMurialSuvarna		
4 <sup>th</sup>	Muhammad IhjazEbrahim	Mr. BasappaKodada	Student ScoreCard generator
4 <sup>th</sup>	Muhammed Shameel A		
4 <sup>th</sup>	Rassal T		
4 <sup>th</sup>	AdonBiju	Mr. Chanchal Antony	Canteen Food ordering and managing System
4 <sup>th</sup>	AmalKuriakose		
4 <sup>th</sup>	Jismon M U		
4 <sup>th</sup>	Amal Mathew		
4 <sup>th</sup>	AkshayaBhalikha D S	MsNikhila	Condensing hindi text using numerical technique
4 <sup>th</sup>	Anusha Dsouza		
4 <sup>th</sup>	LavanyaPushpakar		
4 <sup>th</sup>	Sourab Suresh		
4 <sup>th</sup>	Ashwika V Shetty	Dr. LaxmiGulappaGol	Leaf Disease Detection using Image Processing
4 <sup>th</sup>	Ashika		
4 <sup>th</sup>	Amshitha R		
4 <sup>th</sup>	Deeksha		
4 <sup>th</sup>	Akash Prasad	Dr. Antony P J	E-Blood Bank
4 <sup>th</sup>	Devanarayana P C		
4 <sup>th</sup>	Fayez UmarulFaruk		

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## 17. Details of Industry Visits Organized for Students

Sl No.	Date	Company Details	No of students
-	-	-	-

## 18. Details of Outreach Programs (AICTE Activity/NSS/NCC etc): -

## 19. Details of Funds received by students for various activities:

Sl. No.	Name of the Guide / Principal Investigator	Project Title	Funding Agency	Total Amount Sanctioned
1	Dr. Nagesh H R(PI) Dr. Kiran Kumar (CoI-1) Dr. Basappa B Kodada, (CoI-2)	Design and Implementation of security Solution for Healthcare Systems	VTU Research Grant Scheme-2021	Rs. 4.44 Lakhs /-
2	Mr. Siju V Soman Ms. Bhavna Sharma Ms. Shraddha Ms. Arpitha M J	ESPERANZA-IOT BUDDY AT HOME	KSCST, 45 <sup>TH</sup> SERIES SPP	Rs. 6000/-

## 20. Faculty strength and specialization.

Sl. No	Name	Designation	Qualifications	Experience	Area of Specialization	No. of Ph.D Guide/ Guiding
1	Dr. Antony P J	Professor & HoD	M. Tech and PhD	24	Natural Language Processing & Machine Learning	8
2	Dr. Basappa B Kodada	Associate Professor	M. Tech and PhD	15	Cloud Computing & Cryptography	-
3	Dr. LaxmiGulappagol	Associate	M. Tech and	12	Covert Communication &	-



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		Professor	PhD		Steganography	
4	Mrs. Sharon C D'souza	Assistant Professor	M. Tech	$6\frac{1}{2}$	Computer Science & Engineering	-
5	Mrs. Snitha Shetty	Assistant Professor	M. Tech	8	Computer Science & Engineering	-
6	Mrs. SaranyaBabu	Assistant Professor	M. Tech	08	Computer Science & Engineering	-
7	Mr. Chanchal Antony	Assistant Professor	M. Tech	11	Computer Science & Engineering	-
8	Mr. Siju V Soman	Assistant Professor	M. Tech	10	Information Technology	-
9	Mrs. Archana	Assistant Professor	M. Tech	04	Software Engineering	-
10	Ms. Nikhila	Assistant Professor	M. Tech	$12\frac{1}{2}$	Digital Electronics & Communication Systems	-
11	Mr. N Arul	Assistant Professor	M. E	$12\frac{1}{2}$	Computer Science & Engineering	-
12	Mr. Vinayak G Pai	Assistant Professor	M. Tech	18	Computer Engineering	-
13	Mr. VijaykumarDudhanik arSatlingappa	Assistant Professor	M. Tech	13	Computer Science & Engineering	-

## 21. No. of Faculties Registered for Ph.D Programs: -

## 22. Details of Faculty Publications indexed in SCOPUS/Web Of Science/UGC CARE

Sl No.	Title of the paper	Name of the author(s)	Details of the Publications(ISSN /ISBN, Volume, Date of Publication etc.)	Indicate Scopus/Web of Science/UGC Care
-	-	-	-	-

## 23. Books / Chapters in edited Volumes and papers in National/International Conference Proceedings by Faculties during the year

  
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Sl No	Title of the Book Chapter	Name of the author(s)	Details of the Publications(ISSN/ISBN, Volume, Date of Publication etc.)	Details of the Publisher
1	Advances in Communication and Computational Technology	Basappa B Kodad, Demian Antony D'Mello	978-981-15-5340-0	Springer

## 24. Books published by the Faculties during the year

Sl No.	Title of the Book	Name of the author(s)	Details of the Publications(ISSN/ISBN, Volume, Date of Publication etc)	Details of the Publisher
-	-	-	-	-

## 25. Number of Faculty who received National/ International fellowship/Financial/Awards Support by various agencies:

Sl No.	Name of the Faculty	Details of Fellowship/Financial/Awards	National/International
-	-	-	-
-	-	-	-

## 26. Research funds sanctioned and received from various agencies, industry and other organizations:

Sl No.	Name of the Project	Name of the Principal Investigator	Year of Award	Funds Sanctioned (Rs.)	Duration of the project
-	-	-	-	-	-

## 27. Number of Patents filed/published/awarded:

  
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Sl. No.	Title of the Patent	Name of the Publisher(s)	Details of Patent Publications	Status(filed/published/awarded)
1	Internet of Things Sensors Based Intelligent Door Security System for Smart Home Security”	Dr. Antony P J	Application Number:202041028141; Application Date:02/07/2020.	Published

## 28. Student Mentoring (mentor-wise list with mentee):

2 <sup>nd</sup> year			
Sl.No	USN	Name	Counselor Name
1	4JK20CS001	ABHILASH J Y	Mr. VijaykumarDudhanikar
2	4JK20CS002	ADARSH VINOD	
3	4JK20CS003	ADITHYAN K V	
4	4JK20CS004	ADVAITH PRASAD	
5	4JK20CS005	AHMAD MIDLAJ B	
6	4JK20CS006	ALISHA UJWALA	
7	4JK20CS007	ANANYA. G. ADYANTHAYA	
8	4JK20CS008	ANVITHA	
9	4JK20CS009	ANVITHA	
10	4JK20CS010	ASHWIN SHETTY	
11	4JK20CS011	BHAGYASHREE	
12	4JK20CS012	C A PRAJWAL	
13	4JK20CS013	CLIVA RHEA MORAS	
14	4JK20CS014	DEVIPRASAD RAI P	
15	4JK20CS015	DHRUV KISHORE SHETTY	
16	4JK20CS016	FARZEEN HARIS	
17	4JK20CS017	HRITHIK G H	
18	4JK20CS018	ISHA SHEIKH BASHIR	
19	4JK20CS019	JEEVAN M	
20	4JK20CS020	KARTHIK GANESH	Ms. Nikhila
21	4JK20CS021	KARTHIK H R	
22	4JK20CS022	LAKSHMI U KURUBARA	
23	4JK20CS023	MANNYA ANNA SAM	
24	4JK20CS024	MANORANJAN.M	
25	4JK20CS025	MANVITH K AMIN	
26	4JK20CS026	MOHAMMAD AMAN	
27	4JK20CS027	MOHAMMED	



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28	4JK20CS028	N. R. NEERAJ	Mrs. Archana S
29	4JK20CS029	NAMRATHA SHETTY	
30	4JK20CS030	NEHA V P	
31	4JK20CS031	NISHAL S. P KARKERA	
32	4JK20CS032	NISHANTH	
33	4JK20CS033	POOJASHREE A S	
34	4JK20CS034	PRAKRUTHI S SHETTY	
35	4JK20CS035	PRAMYA	
36	4JK20CS036	PRATEEK CHANDRASEKAR KOTIAN	
37	4JK20CS037	PRATHVI DEVADIGA	
38	4JK20CS038	RAHUL. D. SHETTY	
39	4JK20CS039	RAHUL M MOOLYA	
40	4JK20CS040	RAMSHA RIYAZ AHMED MIRZANKAR	
41	4JK20CS041	S. ATHREYA SHANKAR	
42	4JK20CS042	SANNIDHI SHIVAPRASAD RAI	
43	4JK20CS044	SHARATH KUMAR	
44	4JK20CS045	SHREYA S SHETTY	
45	4JK20CS046	SWASTHIK ACHAR	
46	4JK20CS047	THEJASWI D. S	
47	4JK20CS048	TIKESH RAJ	
48	4JK20CS049	VAISHAK	
49	4JK20CS050	VAISHISHTA	
50	4JK20CS051	VARSHA B SHETTY	
51	4JK20CS052	VEENA. V.R	
52	4JK20CS053	VIDYASHREE SHETTY	
53	4JK20CS054	VIJETH KUMAR	
54	4JK20CS055	YASHAS MANJAR	
55	4JK20CS056	ZAID ALI AHAMAD	
56	4JK21CS400	MOUNA R R	
57	4JK21CS401	PRAJNA P	
58	4JK21CS402	SUSHMA MALLESH KAIKAD	

### 3<sup>rd</sup> year

Sl.No	USN	Name	Counselor Name
1	4JK19CS001	ABHIJITH RAJENDRAN	Mrs Sharon D'Souza
2	4JK19CS002	ABHISHEK D MANKAME	
3	4JK19CS003	ADITHYA R SHANKAR	
4	4JK19CS004	AKANKSHA	
5	4JK19CS005	AKANKSHA U SAADHANA	
6	4JK19CS006	ALBIN JOHN	

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7	4JK19CS007	ALBIN JOSEPH	
8	4JK19CS008	AMAN	
9	4JK19CS009	ANISH M BHAT	
10	4JK19CS010	ARVA FATHIMA	
11	4JK19CS011	ATHUL SHAJI	
12	4JK19CS012	CHIRAG J KULAL	
13	4JK19CS013	DEVIKA ARUN T V	
14	4JK19CS014	DHANYA D SHETTY	
15	4JK19CS015	DIVYATEJ V S	
16	4JK19CS016	EDWIN JOHNY MICHAEL	
17	4JK19CS017	EXSON NAVEIL PEREIRA	
18	4JK19CS019	GAYATHRI M N	
19	4JK19CS020	HARSHITH J POOJARY	
20	4JK19CS021	JOEL JOSEPH	
21	4JK19CS022	JOEL SAM THOMAS	
22	4JK19CS023	JUGAL ALAN	
23	4JK19CS024	KARTHIK R	
24	4JK19CS025	KAUSHAL R	
25	4JK19CS026	KHUSHI PAL	
26	4JK19CS027	KITTU KUMARI	
27	4JK19CS028	LAKSHMIKANTH	
28	4JK19CS029	MITHUN KUMAR UMESH	
29	4JK19CS030	MOHAMMED SHAMAL	
30	4JK19CS031	NAZILA HAMAD BHAVA	
31	4JK19CS032	NISHANTH E	
32	4JK19CS033	NISHANTH A SHETTY	
33	4JK19CS034	PAYAL	
34	4JK19CS035	PRATHIK B C KULAL	
35	4JK19CS036	PRATHIKSHA D	
36	4JK19CS037	R ADITYA	
37	4JK19CS038	RAHUL H P	
38	4JK19CS039	RITESH N K	
39	4JK19CS040	S DIYA	
40	4JK19CS041	S SHIVANI ACHARYA	
41	4JK19CS042	SACHIN A	
42	4JK19CS043	SAHAD ABDULLA C P	
43	4JK19CS044	SAHANA MANJUNATH NAIK	
44	4JK19CS045	SAMIKSHA S NAGWEKAR	
45	4JK19CS046	SANDEEP BENNY	
46	4JK19CS047	SHAHAM ABDULLA C P	
47	4JK19CS048	SHARATH	

MrsSnitha Shetty

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AJIET

48	4JK19CS049	SHRADHA SAJEEVAN	Mr. Vinayak G Pai
49	4JK19CS050	SHRIJA B SHETTY	
50	4JK19CS051	SIBIN T S	
51	4JK19CS052	SINCHANA C SHETTY	
52	4JK19CS053	SIRIUS THOMAS MATHEW	
53	4JK19CS055	SURAJ J	
54	4JK19CS056	THRUPTHI	
55	4JK19CS057	VAISHNAV E	
56	4JK19CS058	VIDYA KEERTHI M	
57	4JK19CS060	YASHASWI G PUTHRAN	
58	4JK19CS061	YASHIKA A KRISHNANI	
59	4JK19CS062	YOMITH T MENDON	
60	4JK19CS063	YUKTIKA A KRISHNANI	
61	4JK18CS045	RADHA SHRI VAMSI KARRI	
62	4JK18CS042	OMKARESH	

4 <sup>th</sup> year			
Sl.No	USN	Name	Counselor Name
1	4JK18CS001	ADON BIJU	MrChanchal Antony
2	4JK18CS002	AYSHATH SAPREENA	
3	4JK18CS003	<u>AKASH PRASAD</u>	
4	4JK18CS004	AKSHAY D T	
5	4JK18CS005	AKSHAYA BHALIKHA D S	
6	4JK18CS006	AMAL KURIAKOSE	
7	4JK18CS007	AMAL MATHEW	
8	4JK18CS008	AMEENA AFREENA	
9	4JK18CS009	AMSHITHA R	
10	4JK18CS010	ANANYA R SHETTY	
11	4JK18CS011	ANIRUDH K	
12	4JK18CS012	ANITA RAMAKRISHNA BHAT	
13	4JK18CS013	ANUSHA DSOUZA	
14	4JK18CS014	ANUVINDA K V	
15	4JK18CS015	ASHIKA	
16	4JK18CS016	ASHWIKA V SHETTY	
17	4JK18CS017	BHAVNA SHARMA	
18	4JK18CS018	CHANDANA BALLALA J R	
19	4JK18CS019	CHANDANA I K	
20	4JK18CS020	DEEKSHA	
21	4JK18CS021	DEEKSHA D SHENOY	Mr N Arul
22	4JK18CS022	DEVANARAYANA P C	

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23	4JK18CS023	FAYEZ UMARUL FARUK		
24	4JK18CS024	INSHA NAZ		
25	4JK18CS025	JISMON M U		
26	4JK18CS026	K V BHOOMIKA		
27	4JK18CS027	KARISHMA SHETTY		
28	4JK18CS028	KARTHIKEYA KUMAR		
29	4JK18CS029	KARTHIKEYA NEROLU		
30	4JK18CS030	KEERTHANA R		
31	4JK18CS031	LAVANYA PUSHPAKAR		
32	4JK18CS032	LAVITA GLORIA LOBO		
33	4JK18CS033	LENISH K J		
34	4JK18CS034	MANU KASHYAP		
35	4JK18CS035	MEGHANA SHETTY		
36	4JK18CS036	MONISHA D		
37	4JK18CS037	MUHAMMAD IHJAZ EBRAHIM		
38	4JK18CS038	MUHAMMED SHAMEEL A		
39	4JK18CS039	NEHA C NAIK		
40	4JK18CS040	NIDHI K		
41	4JK18CS041	NIREEKSHA RAI G		
42	4JK18CS042	OMKARESH		
43	4JK18CS043	PALLAVI SHETTY		MrSiju V Soman
44	4JK18CS044	PUJARI RIYA PREM		
45	4JK18CS045	RADHASHRIVAMSHI KARRI		
46	4JK18CS046	RAI NINAD BHASKAR		
47	4JK18CS047	RAMYASHREE		
48	4JK18CS048	RANJITH N		
49	4JK18CS049	RASSAL T		
50	4JK18CS050	RIFTHASHIA		
51	4JK18CS051	SAACHYA S SHETTY		
52	4JK18CS052	SABHYATHA MURIAL SUVARNA		
53	4JK18CS053	SANJANA SHETTY		
54	4JK18CS054	SARTHAK		
55	4JK18CS055	SHETTY CHIRAG DIVAKAR		
56	4JK18CS056	SHIHAB ABDUL RAHIMAN		
57	4JK18CS057	SHRADDHA		
58	4JK18CS058	SNEHAL		
59	4JK18CS059	SOURAB SURESH		
60	4JK18CS060	SUBHAKAR		
61	4JK18CS061	UNNATI K		
62	4JK18CS062	VISHAKHA KOTECHA		

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## 29. Details of seminar/symposia/conference/refresher course/training programs/webinars organized during the year:

Sl. No	Name of the Convener/Coordinator	Title of the Event	Details of the Resource Person(s)	Duration with dates	No. of participants	Outcome
1	MrSiju V Soman, MrsShilpashetty	Technical talk on "Kick-start to IoT Technologies"	MrSaurabhS amanta, Senior Research staff, Central Research Laboratory, Bharath Electronics Ltd, Bengaluru	05-02-2022	100	Attendees gained a foundational understanding of IoT technologies, including key components and real-world applications.
2	MrChanchal Antony, MsNikhila G	Technical Talk on "Emerging trends on Web application and opportunities post covid world"	MrVipinkumarNittoor, Specialist Java technologies, Infosys Ltd, Mangalore	21-05-2022	90	Explored the latest trends in web applications, such as enhanced security measures and AI integration, while highlighting new opportunities arising in the post-COVID world.
3	DrLaxmiGulappagol, MrChanchal Antony	Workshop on "Advances in Database and SQL"	MrNavileNageshwara Naveen, Corporate Trainer, speaker on Java Programming & Android	31-01-2022 to 02-02-2022	58	Covered the latest advancements in database technologies and SQL, including new features and optimization

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			app development , Bengaluru			techniques.
4	DrBasappaKodada, Mrs Sharon D'souza, MrVinayakPai	5 day Skill Development program on Mobile Application Development	MrChetan S P, Founder &CEO , Tackle- D Pvt Ltd Kushalnagar	09-05-22 to 13-05-22	60(students). 16(faculties)	Provided hands-on training in mobile application development, covering key techniques and tools for building apps on both Android platform.
5	Mrs Sharon D'Souza	Bridge Course on "C++"	DrBasappaKodada, MrChanchal Antony, Mrs Sharon D'Souza, MrsSnitha Shetty, MrVinyakaPai, MrsArchana, MrVijaykumarDudhanikar	31-05-22 to 02-06-2022	54	Offered a comprehensive review of core concepts and advanced features of the language, aiming to strengthen foundational knowledge and enhance programming skills.
6	MsNikhila	Project Expo 2022	DrVandana B S, Associate professor, Director MCA, VCET, Puttur	21-06-2022	68	Showcased innovative projects and solutions developed by participants, offering a platform for them to present their work and receive feedback.

### 30. Details of of Functional MoUs and activity mapping:

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SL.No	MOU	Activity mapped
1	KAKUNJE SOFTWARE PVT. LTD Door No, 7S-7-336/t7, #205, 2nd floor, Abhiman Plaza, Bunts Hostel circle, Mangalore-575003	*To encourage interactions between the Engineers, Scientists, Research fellows, faculty members and students of both the organizations. * To involve in research activities with the aim of bridging the gap between academia and industry
2	UiPath Academic Alliance	Educational partnership for collaboration on growing the Robotic Process Automation(RPA) knowledge ecosystem
3	EDUEXTEND TECHNOLOGIES LLP (Skillhouse®), No. S18(B), 2nd Floor, Empire Mall, MG Road, Lalbagh, Mangalore, Karnataka, 575003	1.The 'Company' shall enable A. J. INSTITUTE OF ENGINEERING AND TECHNOLOGY students to register themselves in the Portal where they can apply for Tech talks, Workshops and Internships offered by the partner companies and individual software professionals.  2.Selection criteria for internships will be determined by the Partner companies as per their requirements.  3.The 'Company' shall conduct Tech talks/Workshops online free of cost on domains such as Blockchain, Cloud Computing, Database, Artificial Intelligence, Machine Learning, Mobile Development, Application Development and Full stack

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		<p>Development etc.</p> <p>4.Skillhouse shall encourage students to participate in technical talks / Workshops and provide a “Recognition Certificate” from institution to the speaker or partner company who conducts such events.</p> <p>5.Any software and hardware requirements for attending Tech Talks or Workshop shall be arranged by the students and not by the ‘Company’.</p> <p>6.The ‘Company’ also provides job-oriented quality training to students which is a paid service. Students are free to opt any training based on eligibility.</p>
4	Klientship Technologies Private Limited, Mangaluru	<p>1)Based on technical strength details of areas on which internships for the students could be given.</p> <p>2)Shall help in training the students whenever students approach them during the specified time given</p> <p>3)College shall invite the expertise from Klientship when required based on the availability of resources</p> <p>5)Klientship shall entertain any industrial visits if planned</p> <p>6)Klientship shall provide all possible services to the with</p>

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		regard to consultancy at rates mutually agreed upon.
5	Techbyheart ,54/2967, 3rd Floor, Kohinoor Building Temple Road, Kadavanthra, Kochi, Ernakulam, Pin-682020 India	<p><b>a)</b>The Institute shall furnish Techbyheart with the academic calendars, schedules and syllabi applicable to every student enrolled in the institution who have enrolled in the course offered by the Techbyheart in a timely and organized fashion.</p> <p><b>b)</b>The Institute shall designate such number of personnel who will function as a point of contact for all communications, correspondence collaborations and other delegated responsibilities with the Techbyheart</p> <p><b>c)</b>Techbyheart shall designate an executive who will be in charge of all communication with the Institute with respect to the programs, courses, fee structure, terms and conditions, student data and other particulars arising in the course of the services offered.</p> <p><b>b.</b>Techbyheart shall select campus ambassadors from among students who will be delegated tasks and responsibilities that the Techbyheart understands as necessary for the promotion,</p>

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		management, organization, improvement and continuance of the services offered.
6	Thaniya Technologies, Mangaluru	<p>a)Both parties will designate a representative from its side who will be the primary point of contact on behalf of that party.</p> <p>b)The College will provide the Labs with an Internet facility for the conduction of the workshops for the students.</p> <p>c)Both parties shall not use the name of the other in any advertisement or make any public announcement without the prior written approval of the other.</p> <p><b>TECHNOLOGIES:</b></p> <ul style="list-style-type: none"><li>&gt; Python,</li><li>&gt; Machine Learning,</li><li>&gt; Artificial intelligence,</li><li>&gt; IoT,</li><li>&gt; DART,</li><li>&gt; Flutter,</li><li>&gt; Mean Stack,</li><li>&gt; POWER BI,</li></ul>

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		<ul style="list-style-type: none"><li>&gt; PEGA,</li><li>&gt; Design thinking,</li><li>&gt; Hadoop Big Data,</li><li>&gt; JAVA,</li><li>&gt; PHP</li></ul>
7	ACCOLADE TECH SOLUTIONS,Kankanady, Mangaluru	<p>1)Based on technical strength Accolade shall specify the details of areas on which internships for the students belonging</p> <p>2)Accolade shall help in training the students of whenever students approach them during the specified time.</p> <p>3)Accoladeshall engage the students for a time period mentioned in their syllabus which changes from time to time.</p> <p>4)The Institute shall invite the expertise as and when required based on the availability of resources .</p> <p>5)Accolade shall also entertain any industrial visits if planned by the Institute</p>

### 31. Details of Consultancy Work in the department:

### 32. SWOT Analysis

#### A. Strength:

  
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- (i) Qualified and committed faculty
- (ii) Career-focused teaching and learning system to achieve highly-skilled, ready-for-work graduates

## B. Weaknesses:

- (i) Lack of full-time research scholars
- (ii) Student diversity - to attract students from different demographics / international students

## C. Opportunities:

- (i) Collaboration with local industries for curriculum development, recruitment, and consultancy services
- (ii) Becoming a deemed to be University

## D. Threats:

- (i) Increasing deemed / private universities with a large number of intakes in emerging areas and which are attracting the qualified faculty with high incentives
- (ii) Declining enrollment in core branches due to changing demographics, increased competition, and lack of clear career alignment

### 32. Details on whether the following are maintained/updated regularly

Course Files	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Personal Files of Teaching and Non -Teaching staff members	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
IA Audit	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
P- Files	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Student Feedback/ Faculty Feedback/ Program Feedback	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Appraisal	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		<input type="checkbox"/>

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Whether Innovative Teaching Methods Included  Yes  No

33. Any other information, which is not covered above:

Dr. Antony P. J

Name and Signature of the HOD

### Observations of the Academic Audit Team:

1. Research and fundings needs to be improved.
2. Students participation in extra-curricular activities needs improvement.

### Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr. Rajesh Rai	Chairman	AJIET	
2	Kinan Kumar	External Dept.	AJIET	
3	MR. GANESH	External	External	

IQAC COORDINATOR

PRINCIPAL

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**REPORT ON THE ACADEMIC AUDIT  
(Academic Year Start Date- 18-10-2021 – End Date- 16-07-2022)**

**1. Name of the Department** : **Civil Engineering**

**2. Vision of the Department** :

To produce competent and professional civil engineers with academic excellence and ethics to meet societal challenges at global level.

**3. Mission of the Department** :

M1: To impart students with strong theoretical and practical skills through the state-of-the-art concepts and fundamentals of various civil engineering subjects.

M2: To prepare the students to be competent and skilled enough to take up the challenges in research to meet the ever-changing needs of society and to continue learning.


M3: To promote active learning, critical thinking, industry - institute collaborative activities and contribute to social development with ethical conduct.

M4: To nurture innovative ideas and develop entrepreneurial attitude among the engineering professionals.

**4. Sanctioned Intake (Program wise)** :

Sl.NO:	Name of Program	Sanctioned Intake	Number of Students Admitted
1	Civil Engineering	60	36

**5. Overall Demand Ratio:  $36/60=0.6$**

  
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## 6. Students Enrollment (Program wise) :

Program	Female	Male	Total
Civil Engineering	15	21	36

## 7. Result Analysis :

Semester	Total No. of Students	Total No. of Absentees	Total No. of Students Appeared	FCD	FC	SC	PASS	FAIL	Pass %	PI (%)
1	36	2	34	6	6	4	2	16	52.94	38.24
2	33	0	33	9	4	8	1	11	66.67	49.24
3	30	3	27	0	5	5	0	17	37.04	23.15
4	30	2	28	5	12	3	0	8	71.43	55.36
5	55	4	51	7	10	6	0	28	45.1	34.31
6	55	4	51	16	19	8	0	8	84.31	67.16
7	31	0	31	9	6	8	2	6	80.65	58.06
8	31	0	31	23	4	0	0	4	87.1	83.87

8. Number of classrooms and Laboratories with ICT facilities: 4 Class Room + 1 Laboratory

9. Total number of computers available for students : 22

10. No. of students qualifying in State/ National/ International level examinations (eg: GATE/GMAT/CAT/GRE/TOEFL/IELTS Civil services/State Government examinations): 01

## 11. Details of Students Achievements:

TECHNICAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated

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-	-	-	3	-	-	-	6	3	-	-	6
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CULTURAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
-	-	-	3	-	-	-	-	-	-	-	-

SPORTS											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
-	-	-1	1	-	-	-	1	-	-	-	1

## 12. Details of Student Publications in Conferences/Journals

Title of the paper	Name of the author(s)	Details of the Publication
"Defluoridation of Water using Corn Cobs Powder -An effective Risk Reducing agent."	Abhishek S. and Mallikarjuna G.S, Dr. Sangeetha D M	Journal of Water Resource Engineering and Management. Vol 8(2), 2021. eISSN: 2349-4336.

## 13. Details of Students completed Certification Programs

Year	No of Students	Name of the Course and Course Provider
3 <sup>rd</sup>	20	Skill Development Program for Civil Engineers Mr. Janakaraj, Research Scholar, Manipal

## 14. Details of Student Undergone Internships

Year	No of Students	Details of the Company
1 <sup>st</sup>	NIL	-
2 <sup>nd</sup>	NIL	-
3 <sup>rd</sup>	NIL	-

  
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4 <sup>th</sup>	20	Marian Pvt Ltd,3rd Floor, Ramabhavan Complex, Navabharath Circle,Kodiabail,Manglore,575003 Mail Id - Sales@Marian.Co.In.
	3	MMJS Architecture Design Consultants. Kuttiparambil building, above jai Bharath Arya Vaidya sala, main road, Kelakam Mail Id – mmjsarchitecture@gmail.com
	4	Lal Homes & Real Estates Pvt Ltd. LGF 17, Vasant arcade, Combo, Margao, Goa – 403601 Mail Id – info@lalhomes.in
	1	Sri Vinayaka Consultants #405, 2/2 main road, 6 <sup>th</sup> cross, I block, Ramakrishnanaga, Mysore – 570022 Mail Id – svcmysore1970@gmail.com
	1	Cityscape Developers No.6, Sunglow, CD Countyside, Near PWD Water Supply Dept Margao, Murida, Fatorda, Goa 403602 Mail Id - info@Cityscapedevelopersgoa.com
	1	TNB Associates, Engineers & Contractors Ground floor, Sundaram residency, Ranganath Shenoy compound, PPC road, 2 <sup>nd</sup> cross, Udupi – 576101 Mail Id – alanrohan@tahoo.com
	4	Adappa Associates

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		Ground floor, Bejai church complex, Bejai, Mangaluru – 575004 Mail Id – adappaassociates@gmail.com
	1	Yamuna Homes & Desin Pvt Ltd 3-29-2364/10, Nalpad building, 1 <sup>st</sup> floor, near Kadri temple dwara, Mallikatte, Mangaluru – 575003 Mail Id – yamunahomes16@gmail.com
	1	CEARTH House no – 23/1275A, villa no – B6, golden enclave colony, Chevayoor Po, Kozhikode, Kerala – Mail Id – cearthcalicut@gmail.com

## 15. Details of students undertaken Mini Projects

Year	Name of the Student	Name of the Project	Name of the Guide
1 <sup>st</sup>	NIL	-	-
2 <sup>nd</sup>	NIL	-	-
3 <sup>rd</sup>	NIL	-	-
4 <sup>th</sup>	NIL	-	-

## 16. Details of students undertaken Major Projects

Year	Name of the Student	Name of the Project	Name of the Guide
1 <sup>st</sup>	NIL	-	-
2 <sup>nd</sup>	NIL	-	-
3 <sup>rd</sup>	NIL	-	-
4 <sup>th</sup>	NIKESH KUMAR SIWAN	LOW COST SENSOR BASED KIT TO DETECT THE GHG	Dr. Suman K
	SUNIAINA GHARTI		
	A PREM KUMAR		

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DILEEP M		
DEEKSHA	EVALUATION OF PHYSICOCHEMICAL CHARACTERISTICS AND METAL CONTAMINATION RISK IN NETHRAVATHI AND GURUPURA RIVER BASIN: OVERVIEW OF POLLUTION INDICES WITH RISK ASSESSMENT AND APPLICATION OF LOW-COST WATER FILTER	Mr. Nitesh
SRIDEVI R		
PRAJNA		
SUJITH SHEKAR POOJARI		
NICKSON GEORGE	Water quality analysis around AJIET campus	Dr. Amarnath Shetty
NIRANJAN S		
VYSHNAV SUNIL		
K VYSAKH		
ANANYA KUDYADI	STRENGTH EVALUATION OF STEEL PLATE GIRDER USING STAAD PRO	Dr. Sangeetha D M
CHAITANYA CHANDRASHEKAR HOSAMANE		
A MANJIMA		
COSTA JANAVI		
SALWIN SABU	A Best Strategy for Improving Water Quality for Enhancing Crop Production - A Study on Mangalore Rural	Mr. Saketh Shetty
SHOBHIT B		
SIDDARTH J NAIR		



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SURAJ S SHETTY		
NARESHA A	AN EXPERIMENTAL INVESTIGATION ON SOIL STABILIZATION OF BLACK COTTON SOIL USING TERRAZYME	Ms. Deeksha Anand
SURAJ R SHETTY		
SHASHANK		
NIKHIL		
PREETHESH G RAI	ANALYSIS OF EFFECT ON ADDITION OF LATHE STEEL SCRAP ON MECHANICAL PROPERTIES OF CONCRETE	Ms. Pooja D
SREERAJ V		
MOHAMMED NIZAM		
ABIN MATHEW	Analysis of multistoried building with floating column using Etabs	Mr. Nikhil
AMAL GEEVARGHESE		
ANIRUDH NAIR P V		
KIRAN T		
VIGNESH RAM	STRENGTHENING OF SUBGRADE SOIL BY USING WASTE PLASTIC MATERIALS	Prof. Vinod T D'Souza
ANURAG K V		
DHANUSH SHETTY		
MANIKANTA	EXPERIMENTAL INVESTIGATION ON	Ms. Babitha
GAGANASHREE		

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	SHREEKARA KALLURAYA	BAMBOO FOR LOW- COST HOUSING	
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## 17. Details of Industry Visits Organized for Students

Sl No.	Date	Company Details	No of students
1	24-02-2022	Dakshina Kannada Nirmih Kendra Surathkal Mangalore	30

## 18. Details of Outreach Programs(AICTE Activity/NSS/NCC etc):

1. Contribution to digital awareness one of the initiative to government of India
2. Developing sustainable water management system
3. To skill the rural population helping local schools to achieve good results and enhance their role in higher education.

## 19. Details of Funds received by students for various activities:NIL

## 20. Faculty strength and specialization.

Sl. No.	Name	Designation	Qualifications	Experience	Area of Specialization	No. of Ph.D Guided/Guiding
1	Dr. Suman Kundapura	Associate Professor	M. Tech	8	Hydraulics and water resource Engineering	-
2	Pr. Vinod T D'Souza	Associate Professor	M. Tech	25	Geotechnical Engineering	-
3	Prof. Amarnath Shetty	Professor	Phd	18	Environmental Engineering	1
4	Dr. Sangeetha D.M	Associate Professor	Phd	13	Structural Engineering	01 ( Co Guide)
5	Mrs. Deeksha Anand	Assistant Professor	M. Tech	9	Construction Technology	-
6	Mr. Nikhil N	Assistant Professor	M. Tech	9	Structural Engineering	-
7	Mr. Saketh Shetty	Assistant Professor	M. Tech	13	water resource Engineering	-

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8	Mr. Nitesh	Assistant Professor	M. Tech	6	Environmental Engineering	-
9	Ms. Babitha B	Assistant Professor	M. Tech	2	Structural Engineering	-
10	Ms. Pooja D	Assistant Professor	M. Tech	2	Construction Technology	-

## 21. No. of Faculties Registered for Ph.D Programs: 02

## 22. Details of Faculty Publications indexed in SCOPUS/Web Of Science/UGC CARE

Sl No.	Title of the paper	Name of the author(s)	Details of the Publications(ISSN/ISBN, Volume, Date of Publication etc.)	Indicate Scopus/Web of Science/UGC Care
1	Temperature stresses in Functionally graded (FGM) material plates using deformation theory – Analytical approach	Sangeetha D M, Naveen Kumar D.T., Vinay Kumar V and Prakash K.E.	Materials Today Proceedings Volume 49, Part 5, 2022, Pages 1936-1941	Scopus
2	Defluoridation of Water using Corn Cobs Powder -An effective Risk Reducing agent.	Sangeetha D M, Abhishek S. and Mallikarjuna G.S	Journal of Water Resource Engineering and Management. Vol 8(2), 2021.	UGC

## 23. Books / Chapters in edited Volumes and papers in National/International Conference Proceedings by Faculties during the year

Sl No	Title of the Book Chapter	Name of the author(s)	Details of the Publications(ISSN/ISBN, Volume, Date of Publication etc.)	Details of the Publisher
1	GC-RASM 2021	Dr. Sangeetha D M	Global Conference on Recent Advances in Sustainable Materials 2021, Materials Today	Elsevier



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			Proceedings, Vol 49, part 5	
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## 24. Books published by the Faculties during the year

Sl No.	Title of the Book	Name of the author(s)	Details of the Publications(ISSN/ISBN, Volume, Date of Publication etc)	Details of the Publisher
1	NIL	-	-	-

## 25. Number of Faculty who received National/ International fellowship/Financial/Awards Support by various agencies:

Sl No.	Name of the Faculty	Details of Fellowship/Financial/Awards	National/International
1	NIL	-	-

## 26. Research funds sanctioned and received from various agencies, industry and other organizations:

Sl No.	Name of the Project	Name of the Principal Investigator	Year of Award	Funds Sanctioned (Rs.)	Duration of the project
1	LOW COST SENSOR BASED KIT TO DETECT THE GHG GAS EMISSIONS FROM SEWAGE AND INDUSTRIAL EFFLUENTS IN MANGALORE AND PUBLIC AWARENESS SURVEY OF THE SAME	Dr. SUMAN KUNDAPURA	2021-2022	7000	1.5 Years
2	STRENGTH EVALUATION OF STEEL PLATE GIRDER USING STAAD PRO SOFTWARE	Dr. Sangeetha D M	2021-2022	4000	1.5 Years
3	EVALUATION OF PHYSICOCHEMICAL CHARACTERISTICS AND METAL	Mr. NITESH	2021-2022	7000	1.5 Years

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CONTAMINATION RISK IN NETHRAVATHI AND GURUPURA RIVER BASIN: OVERVIEW OF POLLUTION INDICES WITH RISK ASSESSMENT AND APPLICATION OF LOW-COST WATER FILTER				
COMPUTATIONAL MODELS FOR THE STATIC ANALYSIS OF STEEL COMPOSITE PLATE GIRDER"	Dr. Sangeetha D.M	2021-2022	3.00 lakh/ 1 year	2 Years

## 27. Number of Patents filed/published/awarded:

Sl. No.	Title of the Patent	Name of the Publisher(s)	Details of Patent Publications	Status(filed/published/awarded)
1.	NIL	-	-	-

## 28. Student Mentoring (mentor-wise list with mentee):

### 4<sup>th</sup> year student Counsellor List-2021-2022

Sl. No.	Name of the Mentor	No. of Mentees
1	Suman	16
2	Amarnath	15

### 3<sup>rd</sup> year student Counsellor List-2021-2022

Sl. No.	Name of the Mentor	No. of Mentees
1	Pooja	18
2	Babitha	18
3	Saketh	19

  
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2<sup>nd</sup> year counselor List -2021-2022

Sl. No.	Name of the Mentor	No. of Mentees
1	Nikhil	15
2	Nitesh	15

29. Details of seminar/symposia/conference/refresher course/training programs/webinars organized during the year:

Sl. No	Name of the Convener/Coordinator	Title of the Event	Details of the Resource Person(s)	Duration with dates	No. of participants	Outcome
1	MS. DEEKSHA ANAND	Technical Talk on "Concrete Concepts"	M. A Joseph Head of Technical services Ultratech Cement Ltd, Kerala	7-08-2021 2 Hours	100	Understand the components of concrete, including cement, aggregates, water, and admixtures. Mix Design: Learn the principles of concrete mix design and how to optimize mixtures for specific construction needs.

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2	Ms. Pooja Deepak	Webinar on “Sustainable Advances and Requirements of Research in Concrete Technology in the Era of 21 <sup>st</sup> Century”	Dr. Bibhuti Bhusana Das  Associate Professor, Dept of Civil Engg  NITK, Surathkal	12-08- 2021  2 Hours	92	Understand the evolution of concrete technology and how it has adapted to meet the needs of the 21 <sup>st</sup> century, including the push towards sustainability.  Sustainable Materials: Identify and analyze the various sustainable materials and methods used in modern concrete technology, such as recycled aggregates, supplementary cementitious materials, and alternative binders.
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3	Prof Vinod T D'Souza	<b>Skill Development Program, Add on Course for AJIET Civil Engineering Students</b>	Prof Vinod T D'Souza Assistant professor Dept of CivilEngg, AJIET	Aug 30 <sup>TH</sup> to 12 <sup>th</sup> September 2021 2 Weeks	20	Develop a strong understanding of civil engineering principles including structural analysis, material science, and geotechnical engineering. Gain proficiency in the use of industry-standard software for designing and analyzing civil engineering projects, such as AutoCAD, STAAD. Pro and Revit .
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4	Ms. Deeksha Anand	<b>Webinar On Stress Management</b>	Dr. Malini Desai M D Homeopathy, Associate Professor, Department of OBG Mahalakshmi Homeopathic College, Satara	4-09-2021 2 Hours	98	Students will be able to recognize and categorize different sources of stress in their lives, including personal, academic, and environmental stressors
5	Ms. Deeksha Anand	<b>Technical talk on Inner vision of New Mangalore Port Trust</b>	Mr. A V Harinath Chief Engineer New Port Mangalore Trust	17-11-2021 2 Hours	96	Students will gain insights into how a major port like New Mangalore Port Trust operates, including the logistics, management, and coordinate on required for smooth functioning.
6	Prof. Vinod T. D'souza	<b>Technical Talk on "Opportunities through GATE Exam"</b>	Mr. Ananth Pais Founder, APEX Academy, Mangalore	1-12-2021 2 Hours	88	Students gain a deep Understanding of core

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						engineering subjects, which strengthen their technical foundation. Problem-Solving Skills: Regular practice of GATE-level questions enhances analytical and problem-solving abilities.
7	Ms. Deeksha Anand	<b>Technical Talk on importance of 3D visualization in Engineering using 3DS MAX AND VRAY</b>	ER. JACKSON JEBADURAI P Trainer, CAAD Tech Labs Training Services, Mangalore	16-12-2021  2 Hours	100	Students will grasp the importance of 3D visualization in the engineering field, including how it aids in design, analysis, and presentation of projects. Application: Ability to

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						communicate complex ideas visually to clients, stakeholders, and team members.
8	Ms. Deeksha Anand	<b>3DS Max Workshop</b>	Mr. Wiltan Arul Fernandes Ms. Dhanyashree Design Engineer DREAM ZONE, Mangalore	21 <sup>st</sup> and 22 <sup>nd</sup> May 2022  16 Hours	30	Participants will become familiar with the 3DS Max user interface, including navigation tools, viewports, and essential panels.  Basic 3D Modeling Skills: Participants will learn to create and manipulate basic 3D shapes and models using tools such as extrusion, lofting, and Boolean operations

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9	Dr. Amarnath Shetty Mr. Nitesh	<b>Water Management and Development Technical Talk In association with ECO CLUB</b>	Mrs. Vasumathi Shetty, Niyoo Innovation and Skills Chief strategy officer	27 <sup>th</sup> May 2022  2Hour	40	Describe the key components of the global water cycle. Identify various sources and types of water resources, including surface water, ground water, and alternative water sources.  Explain principles and strategies for sustainable water management. Assess the impact of human activities on water resources and ecosystems.
10	Prof. Vinod T D'Souza	<b>Technical talk on Importance of Gate and its career Opportunities</b>	Mr. Akshay Naik Business Development	10-6-2022  2 Hours	92	Significance of GATE in the engineering domain.

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## 30. Details of of Functional MoUs and activity mapping:

Sl.No.	Name of the Industry/ University	Purpose of Collaboration	Activity
1	Russian state hydrometeorological university	Education/ Research	NILL
2	Heramba consultants	Internship/Job	Nil
3	Brahmur Technologies pvt. ltd	Internship/Job	NIL
4	Marian infrastructure pvt. ltd	Internship/Job	Internship Taken
5	Vishwas Adarsh Construction India	Internship/Job	Internship taken

## 31. Details of Consultancy Work in the department: NIL

## 32. SWOT Analysis

### A. Strength:

- Despite the pandemic the faculty and students were fully available for duty and co-operative
- The faculty knowledge upgradation on skills happened at large

### B. Weaknesses:

- Student project quality was limited

  
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### C. Opportunities:

(i) Post corona large number of fest was conducted

### D. Threats:

(i) Sports participation was considerably lower among students

### 33. Details on whether the following are maintained/updated regularly

Course Files	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Personal Files of Teaching and Non -Teaching staff members	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
IA Audit	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
P- Files	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Student Feedback/ Faculty Feedback/ Program Feedback	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Appraisal	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Whether Innovative Teaching Methods Included	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

34. Any other information, which is not covered above: NIL

*Dr. Sunan Kundapura*  
*Sunan*

Name and Signature of the HOD

H.O.D.-Civil Engineering  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006, D.K. Karnataka

### Observations of the Academic Audit Team:

1. 3<sup>rd</sup> Sem & 5<sup>th</sup> Sem results which very poor, improvement need to be shown
2. Department needs to improve interaction with companies

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## Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr. Rajesh Rai	Chairman	AJIET	
2	Mr. Kisan Kumar	External Dept-Member (ECE)	AJIET	
3	DR. GANESH	External college member (ECE)	GC- Koppal	

IQAC COORDINATOR

PRINCIPAL  
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## REPORT ON THE ACADEMIC AUDIT (Academic Year 18<sup>th</sup> October, 2021 to 16<sup>th</sup> July, 2022)

1. **Name of the Department:** Electronics & Communication Engineering
2. **Vision of the Department:** To be recognized as a center of excellence in the area of Electronics and Communication Engineering by nurturing the young innovative minds into skillful and ethical professionals to cater the industrial and societal needs.
3. **Mission of the Department:**  
M1: To establish state-of-the art laboratories to facilitate research and innovation to upgrade the knowledge and skills in healthcare sector and IoT.  
M2: To provide industry interaction for training programs on latest technology.  
M3: To provide ethical and value based education by promoting activities addressing the societal needs
4. **Sanctioned Intake (Program wise):**2021-22

Sl.NO:	Name of Program	Sanctioned Intake	Number of Students Admitted
1	Electronics & Communication Engineering	60 + 3 (SNQ)	63

5. Overall Demand Ratio: 63 / 63

6. Students Enrollment (Program wise) :

Program	Female	Male	Total
Electronics & Communication Engineering	21	42	63

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## 7. Result Analysis :

Semester	Total No. of Students	Total No. of Absentees	Total No. of Students Appeared	FCD	FC	SC	PASS	FAIL	Pass %	PI (%)
1	63-(2021 batch)-1st sem	0	63	27	20	1	0	15	76.2	73.28
2	63-(2021 batch)-2 <sup>nd</sup> sem	0	63	27	20	1	0	15	76.2	73.28
3	41-(2020 batch)3 <sup>rd</sup> sem	0	41	6	8	5	0	22	46.34	35.37
4	41-(2020 batch)4 <sup>th</sup> sem	0	41	5	10	2	1	23	43.9	33.54
5	62-(2019batch)5 <sup>th</sup> sem	0	62	12	23	14	5	8	87.1	60.48
6	62-(2019batch)6 <sup>th</sup> sem	0	62	17	28	14	1	2	96.77	72.98
7	47(2018-batch) (7 <sup>th</sup> sem)	0	47	0	0	11	21	15	68.09	22.87
8	46(2018 - batch)8 <sup>th</sup> sem	0	46	43	0	0	0	3	93.48	93.48

## 8. Number of classrooms and Laboratories with ICT facilities:

3 classrooms+1 tutorial room

3 software laboratories +3hardware laboratories

## 9. Total number of computers available for students:

Sl.No	Room No	Lab Name	Quantity
1	A 224	Software Laboratory -1	30
2	A 223	Software Laboratory -2	30
3	A 222	Software Laboratory -3	10
	<b>Total</b>		<b>70</b>

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10. No. of students qualifying in State/ National/ International level examinations (eg: GATE/GMAT/CAT/GRE/TOEFL/IELTS Civil services/State Government examinations): Nil.

11. Details of Students Achievements:

TECHNICAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
-	-	-	30	3	8	-	34	-	-	-	-

CULTURAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
-	-	-	-	7	16	-	34	-	-	-	-

SPORTS											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
-	-	-	-	-	-	-	-	8	11	1	20

12. Details of Student Publications in Conferences/Journals: Nil

13. Details of Students completed Certification Programs

Year	No of Students	Name of the Course and Course Provider
1 <sup>st</sup>	-	-
2 <sup>nd</sup>	-	-
3 <sup>rd</sup>	1	Workshop: Machine learning using Python Programming, Dept. of ISE AJIET, Mangaluru.
	1	Innovation Challenge Track, CEC Mangalore.
4 <sup>th</sup>	1	Webinar: Cyber Security, K-Tech CoE for Cyber security.

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## 14. Details of Student Undergone Internships

Year	No of Students	Details of the Company
4 <sup>th</sup> (2018 batch)	17	Slekin Technical Solutions
	1	Centre for system Design, NITK Surathkal
	25	Kakunje software Pvt Ltd
	2	Iwavesystems Technologies
	1	Take It smart Pvt Ltd
	1	Vitvara Technologies

## 15. Details of students undertaken Mini Projects :

SI No.	USN	Name	Project Name	Guide Name
1.	4JK20EC001	Abhijeeth C	Arduino Bluetooth Based Home Automatio n	Dr. Shantharama Rai C
2.	4JK20EC002	Abhinethri C T		
3.	4JK20EC003	Adithya G V		
4.	4JK20EC004	Akash		
5.	4JK20EC006	Amal Dominic	3D - Bionic Arm	Dr. Gnane Swarnadh Satapathi
6.	4JK20EC007	Amith Melric Veigas		
7.	4JK20EC008	Ankitha		
8.	4JK20EC009	Aswin Shaji	OTP Based Smart Wireless Locking System	Mr. Manjukiran B
9.	4JK20EC010	Athmiya Raj A G		
10.	4JK20EC011	Bhavish B Malli		
11.	4JK20EC012	Chethan		
12.	4JK20EC013	Deeptha Suresh A	Smart Wheel Chair	Prof. Prakash Shetty
13.	4JK20EC014	Dhanush V Kotian		
14.	4JK20EC015	Durgesh		
15.	4JK20EC016	Geetha D P		
16.	4JK20EC017	Hardik	Prosthetic Arm	Mr. Kiran Kumar
17.	4JK20EC018	Harshith		
18.	4JK20EC019	Hemanth Kumar H N		
19.	4JK20EC020	Hitaishini C U		

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20.	4JK20EC021	Jhnanika N M		
21.	4JK20EC023	Keerthan Tilak Mendon	Plant Moisture Monitoring System	Mr. Raghavendra Havalḍar
22.	4JK20EC024	Manish Shetty		
23.	4JK20EC025	Manjusha M		
24.	4JK20EC026	Mohan Singh Khati		
25.	4JK20EC027	Muhammed Rabeeh Rahman K V	Electricity Generation by Using Footsteps	Mr. Mohan A R
26.	4JK20EC028	Navya B R		
27.	4JK20EC029	Prashanth S M		
28.	4JK20EC030	Rasim Musthafa		
29.	4JK20EC031	Roshan P S	Automatic Rain Sensing Wiper	Mrs. Thrapthi Shetty
30.	4JK20EC032	Sahil Monna Pinto		
31.	4JK20EC033	Sandesh		
32.	4JK20EC034	Seema J Rai		
33.	4JK20EC036	Soundarya B S	Raspberry Pi Based Android Surveillance Robot	Mrs. Pratheksha Rai
34.	4JK20EC037	Spoorthi		
35.	4JK20EC038	Swasthik Kamath		
36.	4JK20EC039	Valarie Neeshma Sequeira	Air Quality Control	Mrs. Sahana A
37.	4JK20EC040	Sanjana		
38.	4JK20EC041	Prajval		

## 16. Details of students undertaken Major Projects

Academic Year: 2021 – 2022				
Sl. No.	Student Name	USN	Title of the Project	Project Guide
1	ADEESH JAYARAM SHETTY	4JK18EC003	Autonomous Delivery Robot	Dr. Shantharama Rai C
	AKILA	4JK18EC052		
	SHIVANI SHETTY	4JK18EC041		

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	MARZOOK	4JK17EC015		
2	S SAROAN KRISHNA VEL	4JK18EC038	Low Cost Prosthetic Arm	Dr. Gnane Satapathi
	ADIK ASHOK SHETTY	4JK18EC004		
	THRUSHA K	4JK18EC046		
	DHANYA V SHETTY	4JK18EC014		
3	NAIK AKSHIT SURESH SHALINI	4JK18EC025	Implementatio n of Cryptography using FPGA	Mr. Manjukiran B
	MANVITH K	4JK18EC022		
	AMAL KRISHNAN	4JK18EC007		
	HARSHITH	4JK18EC015		
4	DHANUSH	4JK18EC012	Object Detection Based Garbage Collection Robot	Mr. Prakash K Shetty
	DHANUSH AMIN	4JK18EC013		
	K PALLAVI	4JK18EC019		
	NITHEESH KUMAR	4JK18EC030		
5	SUSHANTH K H	4JK18EC045	IOT Based Health Monitoring System using MSP430	Dr.Kiran Kumar V G
	PRATHIKSHA P	4JK18EC035		
	BHOOMI SUVARNA	4JK18EC054		
	AKSHARA ASHOK RAI	4JK18EC006		
6	HRITHIK R D	4JK18EC016	Baby Incubator	Mrs.Pushparani M K
	PRAJWAL SOMANATH DEVADIGA	4JK18EC032		
	PRATHEEK RAI	4JK18EC033		
	NIHAL C	4JK18EC036		
7	VINEETH KRISHNA K	4JK18EC051	Coal Mine Environment Monitoring System	Mr. Manjukiran B Mrs.Sahana Adyanthaya
	ROLAN NORJO LOBO	4JK18EC037		
	DEEKSHA G	4JK18EC010		
	M ASHWIN	4JK18EC020		

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8	MRINAL JEROME LOBO	4JK18EC024	Medical Suction Pump	Mrs.Trapthi Shetty
	MOHITH SANIL	4JK18EC023		
	AMBIKA K	4JK19EC400		
	VIGNESH POONJA K	4JK18EC048		
9	SNEHANIDHI	4JK19EC402	Intelligent Helmet	Mrs. Prateeksha Rai
	ABHILASH M	4JK18EC002		
	VAISHNAVI N V	4JK18EC047		
	PAVAN KUMAR	4JK19EC401		
10	YASHASHWINI H NAIK	4JK18EC050	Automation of Hydroponics	Mrs.Sahana Adyanthaya
	POOJA S P	4JK18EC031		
	MANOJ M S	4JK18EC021		
	ANUSH S	4JK18EC008		
11	HRITHWIK R KRISHNAN	4JK18EC017	Smart Breaking System for Electric Vehicles	Mrs.Divya
	SONA S	4JK18EC044		
	DEEKSHITH RAI	4JK18EC011		
	SHRAVYA K	4JK18EC053		
12	SHEALTIEL LIZER	4JK18EC040	Smart Wheel Chair	Mr.Ganesh U G
	NIKITHA RAI	4JK18EC027		
	SAYAN DASMAHAPATRA	4JK18EC039		
	NISHA	4JK18EC028		

## 17. Details of Industry Visits Organized for Students

SI No.	Date	Company Details	No of students
1	07/06/2022	Kaiga Nuclear Power Plant,NPCIL	32

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## 18. Details of Outreach Programs (AICTE Activity/NSS/NCC etc.):

Sl.No	Name of the activity	Name of the scheme	Academic year
1	Water Conservation at Nirmiti Kendra Surathkal.	NSS	2021-22
2	Swachh Bharath Abhiyan at kokradi	AICTE Activity	2021-22
3	Inspection of RO water	NSS	2021-22

## 19. Details of Funds received by students for various activities:

Sl. No	Project reference Number	Project Title	Name of the guide	Project stream	Name of the students	Sanctioned amount
1	KSCST 45S_BE_0 749	Object Detection based Garbage Collection Robot	Mr. Prakash K Shetty, Mr. Manjukiran B	Stream A	Mr.Dhanush Mr.Dhanush Amin Ms.K Pallavi Mr.Nithesh Kumar	Rs 6000/-

## 20. Faculty strength and specialization.

Sl. No.	Name	Designation	Qualifications	Experience	Area of Specialization	No. of Ph.D Guided/Guiding
1	Dr. Shantharama Rai C	Professor	PhD	23y6m	Control System and Power Electronics	8
2	Mr. Prakash K Shetty	Associate Professor	M. Tech	29y7m	Bio-Medical Engineering	
3	Dr. Gnane Swarnadh Satapathi	Associate Professor	PhD	8y	Signal Processing	2
4	Mr. Manjukiran B	Assistant Professor	M.E	14y1m	Electronics	
5	Dr. Kiran Kumar V G	Assistant Professor	PhD	22y	VLSI and Cryptography	
6	Mr. Raghavendra Havaladar	Assistant Professor	M. Tech	10y	Digital Electronics and Communication system	

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7	Mr. Mohan A R	Assistant Professor	M. Tech	10y	VLSI Design and Embedded Systems
8	Mrs. Thrapthi Shetty	Assistant Professor	M. Tech	8y	Microelectronics & CS
9	Ms. Pratheeksha Rai N	Assistant Professor	M. Tech	8y3m	Digital Electronics
10	Mrs. Sahana K Adyanthaya	Assistant Professor	M. Tech	12y6m	Digital Electronics and Communication Systems
11	Mrs. Divya A	Assistant Professor	M. Tech	14y	Digital Electronics
12	Mr. Ganesh U G	Assistant Professor	M. Tech	2y	Control System.

## 21. No. of Faculties Registered for Ph.D. Programs: Nil

Sl.No	Name of the Scholar	Name of the guide
1	--	-

## 22. Details of Faculty Publications indexed in SCOPUS/Web Of Science/UGC CARE

Sl No.	Title of the paper	Name of the author(s)	Details of the Publications (ISSN /ISBN, Volume, Date of Publication etc.)	Indicate Scopus/Web of Science/UGC Care
1	FPGA implementation novel lightweight MBRISI cipher	Dr Kiran Kumar V G	Journal of Ambient Intelligence and Humanized Computing 1111625-11637	Scopus
2	Design and Implementation of Novel BRISI Light weight cipher for Resource Constrained Devices	Kiran Kumar V G, Dr. Shantharama Rai C	Microprocessors and Microsystems ISSN: 0141-9331	Scopus
3	Efficient Implementation of Cryptographic Arithmetic Primitives Using Reversible Logic and Vedic Mathematics	Kiran Kumar V G, Dr. Shantharama Rai C	Journal of The Institution of Engineers (India): Series B (2021) ISSN: 2250-2106	Scopus
4	Role of Composition, Growth Technique, Temperaturte, Substrate Effects on the efficiency og an IGZO Thin Film Transistor	Dr. Shantharama Rai C, Ganesh V N	International Journal of future Generation Communication and Networking	Web of Science
	Prediction of Diabetic Retinopathy in fundus Imaging with CNIN	Dr. Gnane swarnadh	International Conference, GC-	Scopus



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5	visualisation model MobileNetV2"	Satapathi, Manju kiran,B, Sahana K Adyanthaya	RDCT 2022	
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### 23. Books / Chapters in edited Volumes and papers in National/International Conference Proceedings by Faculties during the year

SI No	Title of the Book Chapter	Name of the author(s)	Details of the Publications (ISSN/ISBN, Volume, Date of Publication etc.)	Details of the Publisher
1	System on chip based Automated Optic Disk Segmentation in Retinal Images	Dr. Gnane swarnadh Satapathi, Neelapala Anil kumar, Mosa Satya Anuradha	<u>2022 First International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT)</u> ISBN: 978-1-6654-3648-9	IEEE Xplore
2	NVSSLMS Algorithm Adaptive Method Implementation for Acoustic Echo Cancellation	Mr Ganesh U G, Mr Shreyas H	International Conference Frontiers in Engineering Science & Tech IC FEST – 2022 ISBN: 2395-1990 Volume:9, Issue 13 May-June 2022	IJSRSET

### 24. Books published by the Faculties during the year: Nil

SI No.	Title of the Book	Name of the author(s)	Details of the Publications (ISSN/ISBN, Volume, Date of Publication etc)	Details of the Publisher
-	-	-	-	-

  
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## 25. Number of Faculty who received National/ International fellowship/Financial/Awards Support by various agencies: Nil

Sl No.	Name of the Faculty	Details of Fellowship/Financial/Awards	National/International
	--	-	-

## 26. Research funds sanctioned and received from various agencies, industry and other organizations:

Sl No.	Name of the Project	Name of the Principal Investigator	Year of Award	Funds Sanctioned (Rs.)	Duration of the project
1	Design and Implementation of Security Solutions for Healthcare Systems	Dr. Kiran kumar V G	2021-22	4.44lakh	1 year
2.	All-terrain vehicle with portable cold storage for transporting COVID medicines	Dr. Shantharama Rai C	2021-22	1lakh	2 years(From 1/01/2022

## 27. Number of Patents filed/published/awarded: 07

Sl. No.	Title of the Patent	Name of the Publisher(s)	Details of Patent Publications	Status(file d/publish ed/award ed)
1	System for hardware acceleration for embedded flash memory based on machine learning	Mr. Kiran Kumar V.G	202141020170	Published
2	Abhigna Vidyut Samputah – A Smart Electric Extension Box	Dr. Gnane Swarnadh Satapathi	202141034598	Published
3	Abhigyna Paripathaphalaka – A Smart Switch Board	Dr. Gnane Swarnadh Satapathi	202141037910	Published

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4	Smart System For The Menstrual Cup Using Machine Learning	Dr. Shantharama Rai C	202141054514	Published
5	Parinata Vidyut Samyutanam – An Advanced Electric Extension Box	Dr.Gnane Swarnadh Satapathi	2021104789	Granted
6	Bitti Astita Nagarata Nistantri Samvidha – A Wall Mounted Smart Wiring System	Dr.Gnane Swarnadh Satapathi	2021106337	Granted
7	A Switch Board Unit To Provide Wireless Switching Operations For Electrical Appliances	Dr.Gnane Swarnadh Satapathi	400975	Granted

## 28. Student Mentoring (mentor-wise list with mentee):

4<sup>th</sup> year student Counsellor List-2021-2022

Sl. No.	Name of the Mentor	No. of Mentees
1	Mr.Prakash K Shetty	16
2	Mrs.Pratheksha Rai	16
3	Mrs.Divya A	16

3<sup>rd</sup> year student Counsellor List-2021-2022

Sl. No.	Name of the Mentor	No. of Mentees
1	Mr.Raghavendra Havaladar /Mrs.Pushparani M K	15
2	Dr.Kiran Kumar	15
3	Mr.Ganesh U G	15
4	Mr.Mohan A R/ Mr.Mnjukiran B	16

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2<sup>nd</sup> year counsellor List 2021-2022

Sl. No.	Name of the Mentor	No. of Mentees
1	Dr.Gnane Swarnadh Satapathi	10
2	Mrs.Thrapthi Shetty	16
3	Mrs.Sahana K Adyanthaya	15

29. Details of seminar/symposia/conference/refresher course/training programs/webinars organized during the year:

Sl. No	Name of the Convener/Coordinator	Title of the Event	Details of the Resource Person(s)	Duration with dates	No. of participants	Outcome
1	Mr.Ganesh U G, Mrs.Pratheks ha Rai N	Webinar on "Career Pathway & Study Abroad opportunities"	Mr.Prasad shetty AECC Global Bangalore	20/07/2021	118	The webinar empowered students with essential knowledge about global educational opportunities and career pathways.
2	Mrs.Pratheks ha Rai N, Mr.Raghavendra Havaldhar	Webinar on "Fundamentals of Oscilloscope"	Ms.Neethu Application Engineer, Techtronix India Pvt,ltd,Bangalore	22/07/2021	41	The webinar equipped students with practical knowledge and skills to effectively use oscilloscopes in various electronic applications
3	Mrs.Pratheks ha Rai N, Mrs.Thrapthi Shetty	Webinar on "IOT Challenges"	Ms.Neethu Application Engineer, Techtronix India Pvt,ltd,Bangalore	23/07/2021	41	It provided students with insights into the key obstacles and solutions in implementing and managing IoT systems
4	Mrs.Pratheks ha Rai N,	Webinar on "How to get Placed in"	Mr.Akhilesh Student Trainer	11/09/2021	72	The webinar offered students

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	Mrs. Thrapthi Shetty	Multinational Companies”	Mumbai.			essential strategies and tips for successfully securing positions in global corporations.
5	Prof. Prakash K Shetty, Mrs. Pratheks ha Rai N	Talk on “Application of Engineering in Medical Field”	Dr. Veluri Sudhakar, Member of Dept. of science & Technology Review committee for Bio-medical devices.	18/10/2021	161	Talk highlighted the innovative ways engineering principles and technologies are transforming healthcare and medical practices.
6	Prof. Prakash K Shetty, Mrs. Pratheks ha Rai N	Webinar on “Employability skills for Engineering Students”	Ms. Monica Popuri, Placement officer, IIT Bombay	15/01/2022	72	The webinar equipped participants with essential skills and strategies to enhance their job readiness and career prospects.
7	Mr. Manjukiran B	Webinar on “Role of IEEE in Engineering students Life”	Ms. Ashwini Holla, Branch Counsellor CEC, Ms. Nagalekha Ramesh, Software Engineer, Gupshu p. Mr. Abdul Halik M I, Digital Marketing Consultant Gradskey.	27/01/2022	38	The webinar highlighted how IEEE resources and networks can significantly enhance students' educational experiences and professional development
8	Mr. Manjukiran B	Webinar on “Google Cloud”	Ms. Navami Kini Technical Solution Engineer, Google LLC, Bengaluru	28/01/2022	84	The webinar provided students with insights into cloud computing services, tools, and applications

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						available through Google Cloud, enhancing their understanding of cloud technologies
9	Mrs.Thrapthi Shetty	Webinar on "Experiential Learning Through Transdisciplinary Approach"	Dr.Pruthviraj Umesh, Asst Professor, Dept of Water resources & Ocean Engg, NITK Surathkal.	31/01/2022	50	Webinar demonstrated how integrating multiple disciplines enhances practical learning experiences and problem-solving skills.
10.	Mr.Manjukiran B	Workshop on "Basics of Arduino"	Mr.Yashas Shetty, 3 <sup>rd</sup> year ECE student	09/04/2022	20	The workshop introduced participants to fundamental Arduino concepts and programming, empowering them to create and control electronic projects.
11	Dr.Kiran Kumar V G	Workshop on "ARTIX-7FPGA Boards"	Mr.Vardhana M, Senior Verification Engineer, Qualcomm Bengaluru	09/05/2022	44	The workshop provided hands-on experience with FPGA technology, focusing on practical applications and programming techniques for ARTIX-7 boards.
12	Prof.Prakash K Shetty, Mrs.Pratheks ha Rai N	Talk on "Job Opportunities for ECE students"	Mr.Sachin Prabhu, Director Manipal care	09/06/2022	91	Talk explored diverse career paths and industry

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						demand, guiding students on how to leverage their skills in the job market.
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### 30. Details of of Functional MoUs and activity mapping:

Sl.No	MOU partner	Address	Date	Activity mapping
1	GTTC	Govt.Tool Room and Training Centre,Mangaluru	02/02/2022	Industrial Tours, Internship Training
2	Infosys Springboard	Infosys Springboard	21/09/2021	Certifications.

### 31. Details of Consultancy Work in the department:

NIL

### 32. SWOT Analysis

#### A. Strength:

- The Department of Electronics and Communication Engineering has Qualified, experienced and dedicated teaching faculty with good retention ratio.
- The use of cutting-edge technology (ICT) to enhance teaching and learning.
- The faculty provides direct mentoring, interaction, and skill enhancement opportunities for students.
- IEEE, Electro-Vertz Students Association, Radio Club, and Embedded Clubs promote social responsibility through various activities.

#### B. Weaknesses:

- Very limited students pursue higher education.
- Generation of revenue through consultancy.

#### C. Opportunities:

- Organize FDPs / National and International conferences.

  
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COO. Gnare Sivasubrah S  
(Name and Signature of HOD)



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- (ii) Motivate students to undertake interdisciplinary projects sponsored by Laxmi Memorial Education Trust and other Agencies.

### D. Challenges:

- (i) Placement with higher annual package.
- (ii) Attracting top-ranked students to the department.
- (iii) Creating Entrepreneurs.

### 33. Details on whether the following are maintained/updated regularly

Course Files	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Personal Files of Teaching and Non -Teaching staff members	<input type="checkbox"/> Yes	<input type="checkbox"/> No
IA Audit	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
P- Files	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Student Feedback/ Faculty Feedback/ Program Feedback	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Appraisal	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Whether Innovative Teaching Methods Included	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

34. Any other information, which is not covered above: NO

Name and Signature of the HOD

(Co-ordinator Swarnadhs)

Principal

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# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

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### Observations of the Academic Audit Team:

1. More faculty in the department must be encouraged to register for phd and get involved in research.
2. Students projects must applied for various funding from various govt and non-govt Agencies
3. Department should conduct more Technical Seminars, Workshops and Industrial Visits for the Students.

### Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr Rajesh Rai	Chairman	AJIET	
2	Ms. Chanchal Antony	Member (Internal)	AJIET, Mlan	
3	GANESHA .M	member [Ext]	BEC, Talakal Koppal	

IQAC COORDINATOR

PRINCIPAL

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## REPORT ON THE ACADEMIC AUDIT (Academic Year Start October Month, 2021 - End July Month, 2022)

1. Name of the Department : INFORMATION SCIENCE & ENGINEERING

2. Vision of the Department :

To be a center of excellence in Information Science & Engineering education, research and training to meet the growing needs of the industry and society.

3. Mission of the Department :

M1: To impart theoretical and practical knowledge through the concepts and technologies in Information Science and Engineering.

M2: To foster research, collaboration and higher education with premier institutions and industries.

M3: Promote innovation and entrepreneurship to fulfill the needs of the society and industry.

4. Sanctioned Intake (Program wise) :

SLNO:	Name of Program	Sanctioned Intake	Number of Students Admitted
1	Information Science and Engineering	60	63

5. Overall Demand Ratio: 105%

6. Students Enrollment (Program wise) :

Program	Female	Male	Total
Information Science and Engineering	31	32	63

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## 7. Result Analysis :

Semester	Total No. of Students	Total No. of Absentees	Total No. of Students Appeared	FCD	FC	SC	PAS S	FAI L	Pass %	PI (%)
1	63	0	63	31	19	4	0	9	86	0.81
2	63	0	63	28	16	4	0	15	76.19	1
3	55	0	55	8	13	9	01	23	57.4	0.42
4	55	0	55	9	17	12	02	15	73	0.51
5	61	0	61	19	23	9	3	7	88.52	0.68
6	62	0	62	27	20	4	0	11	82.52	0.68
7	58	0	58	11	20	21	0	6	90	0.64
8	58	1	57	56	0	01	0	0	100	0.99

8. Number of classrooms and Laboratories with ICT facilities: 4 Classrooms and 4 Labs  
Labs-305, 306, 308, 309 classrooms-4-214, 210, 211, 209

9. Total number of computers available for students : 134

10. No. of students qualifying in State/ National/ International level examinations (eg: GATE/GMAT/CAT/GRE/TOEFL/IELTS Civil services/State Government examinations): 01

## 11. Details of Students Achievements:

TECHNICAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
											14

CULTURAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
								1	2		41

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SPORTS											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
											1

## 12. Details of Student Publications in Conferences/Journals

Title of the paper	Name of the author(s)	Details of the Publication
Air quality predictive analysis using Machine learning	Prathapa,Dishanth S, Anujith Shetty, Mrs.Navya S Rai	International Research Journal of Modernization in Engineering Technology and Science,e-ISSN: 2582-5208

## 13. Details of Students completed Certification Programs -27

Year	No of Students	Name of the Course and Course Provider
1 <sup>st</sup>	1	Machine Learning and AI using Python
2 <sup>nd</sup>	1	Introduction to R,Machine learning
3 <sup>rd</sup>	1	Programming for everybody-Python
4 <sup>th</sup>	1	Containerization & Deployment of Web App on the cloud
5 <sup>th</sup>	1	ST for absolute beginners
6 <sup>th</sup>	1	HTML and CSS build
7 <sup>th</sup>	1	Deep LLearning, Artificial Intelligence
8 <sup>th</sup>	6	Python for Machine Learning
9 <sup>th</sup>	2	Data Science Foundation
10 <sup>th</sup>	1	Data Analysis with Python
11 <sup>th</sup>	2	WEB dEVELOPMENT WITH MASTERCLASS
12 <sup>th</sup>	3	Python Fundamentals for beginners
13 <sup>th</sup>	4	JAVA Programming
14 <sup>th</sup>	1	Coursera-Introduction to AI
16 <sup>th</sup>	2	Front end development HTML
17 <sup>th</sup>	1	Web App Cloud
18 <sup>th</sup>	1	My SQL Basics

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## 14. Details of Student Undergone Internships -57

Year	No of Students	Details of the Company
1 <sup>st</sup>	20	Cognitive Solutions
2 <sup>nd</sup>	6	Agile Tech
3 <sup>rd</sup>	3	Iwave Systems
4 <sup>th</sup>	1	Celstream
5 <sup>th</sup>	13	Kakunje Software Pvt Ltd
6 <sup>th</sup>	4	Quickmetrix
7 <sup>th</sup>	1	BitGlaze Pvt Ltd
8 <sup>th</sup>	2	Knowledge Lens
9 <sup>th</sup>	1	LightHouse Technologies Pvt Ltd
10 <sup>th</sup>	1	UpSkillz EduTech
11 <sup>th</sup>	1	Chirayu Tech Pvt Ltd
12 <sup>th</sup>	1	IOT Research Labs
13 <sup>th</sup>	1	Compost Technologies
14 <sup>th</sup>	1	Cognitive

## 15. Details of students undertaken Mini Projects

SI No	Name	Course Title	Project Title	Guide Name
1	Saud Hussain	Database Management System	Hostel Management System	Mrs Aruna Kumari G K
	Shreyas M			
2	Shamitha	Database Management System	Gas Agency Management System	Mrs Aruna Kumari G K
	S Sharmila Shetty			
3	Rakshitha	Database Management System	Realestate Management System	Mrs Aruna Kumari G K
	Megha			
4	Anish Suvarna	Database Management System	Bhojan-Food Donation App	Mrs Aruna Kumari G K
	Anush Kumar			

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	Rakshitha			
5	Joyal Shaji	File Structure	Railway Reservation Management System	Mr. Arul N
	Joshwa Fernandes			
6	Basavaraj Kurubar	File Structure	Book Store Management System	Mr. Arul N
	Akhil			
7	Ahamed	File Structure	Gym Management System	Mr. Arul N
	Devakrishnan. A			
8	Abhijna P Naik	File Structure	University Management System	Mr. Arul N
	Akanksha S Gatty			
9	Joyal Shaji	File Structure	Railway Reservation Management System	Mr. Arul N
	Joshwa Fernandes			
10	Neera.J K	File Structure	Bank Management System	Mr. Arul N
	Rishno			
11	Prajwal S Bhat	File Structure	Airline Reservation System	Mr. Arul N
	Prakhyath			
12	Ashwija Shetty	File Structure	Supermarket Billing System	Mr. Arul N
	Deeksha			

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	Deeksha Shetty K			
13	Rakshitha	File Structure	Food Ordering System	Mr. Arul N
	Megha			
14	Shraddha Hs	Mobile Application Development	Club Management System	Mrs. Aruna Kumai G
	Karthik Kille			
15	Shamitha	Mobile Application Development	Medicine Reminder	Mrs. Aruna Kumai G
	S Sharmila Shetty			
16	Salman Farish	Mobile Application Development	Finance Management App	Mrs. Aruna Kumai G
	Ahamed			
17	Ashika Ruth Saldana	Mobile Application Development	News Reader Android App	Mrs. Aruna Kumai G
	Athmi B.S.			
18	Nandur	Mobile Application Development	E-Banking Application	Mrs. Aruna Kumai G
	Ram Krishna Marndi			
19	Shraddha H S	Mobile Application Development	Organ Donation	Mrs. Aruna Kumai G
	Karthik D Kille			
20	Kshama D	Mobile Application Development	Currency Converter App	Mrs. Aruna Kumai G

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	Prajna S Puthran			
21	Rakshitha	Mobile Application Development	Reminder App	Mrs. Aruna Kumai G
	Ramya			
22	Ashika Ruth Saldana	Mobile Application Development	News Reader Android App	Mrs. Aruna Kumai G
	Athmib.S.			
23	Swathi	Mobile Application Development	Blood Bank	Mrs. Aruna Kumai G
	Nithya			
24	R Devika	Mobile Application Development	Student Marks Calculator	Mrs. Aruna Kumai G
	Sanjana Arun Prabhas			
	Ahamed			

## 16. Details of students undertaken Major Projects

Year	Name of the Student	Name of the Project	Name of the Guide
4 <sup>th</sup>	Navitha Hegde Nayana S K Neha Naik Payal B U	Pneumonia Detection Using Deep Learning for Post Covid Dataset	Mr John Prakash Veigas
4 <sup>th</sup>	Pavithra Meghashree Yashaswini Zubaidha Shaima	Image Regeneration For Old Damaged Monument Reel Picture using Deep Learning	Mr John Prakash Veigas

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4 <sup>th</sup>	Sudhish Rohit S Harshith Kumar Akhil Kumar K S	Enhanced Media Player With Hand And Face Gesture	Mrs Shilpa Shetty A
4 <sup>th</sup>	Sagar Shetty Chaithrashree Devadiga Ramya Shree devi	"DHANSECURE" USING BIOMETRIC SECURITY	Mr Rakesh M R
4 <sup>th</sup>	Pratheeksha H Saamiya Swapna Tanya Mendon	Chronic Disease Prediction after Covid-19 Using Machine Learning	Dr. Suresha D
4 <sup>th</sup>	Krithi T Nikita Megha Jose Abhijith P P	Breast Cancer Histopathology Image Classification Using Machine Learning	Mrs Aruna Kumari
4 <sup>th</sup>	Soniya Y Puthran Sharanya Pratheeksha R Shetty Reshma	Farm Care: Crop Analysis, Marketing & Disease Detection of Black Pepper using Deep Learning	Mrs Navya Rai
4 <sup>th</sup>	Dishanth S Prathap Anujith Shetty	Air Quality Predictive Analysis Using Machine Learning	Mrs Navya Rai
4 <sup>th</sup>	Shashank Mohammed Ainan Rakshith Ujwal Dhanush Shetty	E-Voting System Using Blockchain Technology	Dr Nagesh H R
4 <sup>th</sup>	Nishitha Rakshitha Swathi K S	Sentiment Analysis On Voice Data for aged people Using Deep Learning	Mr John Prakash Veigas
4 <sup>th</sup>	Anwitha Kiran Ayesha Shaiba Ayshath Safreena Ameena Afreena	Lung Cancer Prediction With CT Scan Using Machine Learning	Mrs Shilpa Shetty A

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4 <sup>th</sup>	Pavithra Karanth Prajna H Rao Aishwarya	Smart Vision Helper Using Iot And Artificial Intelligence	Dr Nagesh H R
4 <sup>th</sup>	Chandan Gunaga Dwithi Amisha Shetty	Blockchain Based System For Money Investment and Secure Transaction	Dr Nagesh H R
4 <sup>th</sup>	Mohammed Nihal C Lenish K J Praise Mon K A A Haritha Saraswathi	Deaf Chat Using Convolutional Neural Network	Mr Rakesh M R
4 <sup>th</sup>	Melvin Chacko Niraj Kumar	A Novel Machine Learning Based screening Method for High-Risk Covid-19 Patterns based on Simple Blood Exams	Mrs Aruna Kumari
4 <sup>th</sup>	Loran Rhea D'souza Shreya Amritha N	"Detection and Classification Of Brain Tumor With MRI Scan Using Deep Learning"	Dr. Suresha D

## 17. Details of Industry Visits Organized for Students

Sl No.	Date	Company Details	No of students
1	07/03/2022	GTTC, Mangalore	50
2	22/06/2022 to 24/06/2022	ITCHAMPS Software Pvt. Ltd., Doddabetta Factory, Ooty	53

## 18. Details of Outreach Programs(AICTE Activity/NSS/NCC etc):

Participated in Beach cleaning, Food packaging,

## 19. Details of Funds received by students for various activities:

NIL

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## 20. Faculty strength and specialization.

Sl. No.	Name	Designation	Qualifications	Experience	Area of Specialization	No. of Ph.D Guided/Guiding
1	Suresha D	HOD	PhD	18	Machine learning & Image Processing	01
2	Prabhakara B K	Associate Professor	MTech	15	CSE	NIL
3	John Prakash Veigas	Associate Professor	MTech	10	CSE	NIL
4	Rakesh M R	Assistant Professor	MTech	5	ELECTRONICS	NIL
5	Sharanya P S	Assistant Professor	MTech	5	CSE	NIL
6	Navya S rai	Assistant Professor	MTech	1	INDUSTRY ELECTRONICS	NIL
7	Divya P	Assistant Professor	MTech	6	CSE	NIL
8	Sivapuram Jayashree	Assistant Professor	MTech	1	CSE	NIL
9	Sahaya Shamini	Assistant Professor	MTech	1	CSE	NIL
10	Archana Priyadarshini	Assistant Professor	MTech	6	CSE	NIL

  
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21. No. of Faculties Registered for Ph.D Programs:01

22. Details of Faculty Publications indexed in SCOPUS/Web Of Science/UGC CARE

Sl No.	Title of the paper	Name of the author(s)	Details of the Publications(ISSN /ISBN, Volume, Date of Publication etc.)	Indicate Scopus/Web of Science/UGC Care
1	Off-line Signature confirmation based on cluster representations of geometrical and statistical features through vector distance, neural networks and support vector machine	Dr. Suresha D	The international Arab Journal of Information Technology	
2	Confidence analysis of a solo sign-on device for distributed computer networks: A Modeling approach	Dr. Suresha D	Recent advances in mathematical research and computer science	
3	KGAN: A Generative Adversarial Network Augmented convolution neural network model recognizing kannada language digits	Dr. Suresha D	3rd International Conference on communication and intelligent systems	
4	Technology-assisted social reforms and online hate content: Insights from India	Naganna Chetty	Brazilian Archives of biology and Technology	
5	Climate Policy and e-Participation Resilience-insights from social media	Naganna Chetty	IFIG WG 8.6 2022 conference held at Kildare, Ireland, from 15th-16th June 2022	
6	Air quality predictive analysis using Machine learning	Navya S rai	International research journal of modernization in engineering technology and science	

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## 23. Books / Chapters in edited Volumes and papers in National/International Conference Proceedings by Faculties during the year

SI No	Title of the Book Chapter	Name of the author(s)	Details of the Publications (ISSN/ISBN, Volume, Date of Publication etc.)	Details of the Publisher
NIL				

## 24. Books published by the Faculties during the year

SI No.	Title of the Book	Name of the author(s)	Details of the Publications (ISSN/ISBN, Volume, Date of Publication etc)	Details of the Publisher
NIL				

## 25. Number of Faculty who received National/ International fellowship/Financial/Awards Support by various agencies:

SI No.	Name of the Faculty	Details of Fellowship/Financial/Awards	National/International
NIL			

## 26. Research funds sanctioned and received from various agencies, industry and other organizations:

SI No.	Name of the Project	Name of the Principal Investigator	Year of Award	Funds Sanctioned (Rs.)	Duration of the project
NIL					

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## 27. Number of Patents filed/published/awarded:

Sl. No.	Title of the Patent	Name of the Publisher(s)	Details of Patent Publications	Status(filed/published/awarded)
NIL				

## 28. Student Mentoring (mentor-wise list with mentee):

Sl. No.	Name of the Mentor	No. of Mentees
1	Aruna Kumari G K	28
2	Rakesh M R	28
3	John Prakash	31
4	Shilpa Shetty	31
5	Navya S Rai	29
6	Sushma	38

## 29. Details of seminar/symposia/conference/refresher course/training programs/webinars organized during the year:

Sl. No	Name of the Convener/Coordinator	Title of the Event	Details of the Resource Person(s)	Duration with dates	No. of participants	Outcome
NIL						

## 30. Details of of Functional MoUs and activity mapping:

GTTC-GOVERNMENT TOOLS ROOM & TRAINING CENTRE, MANGALURU

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31. Details of Consultancy Work in the department:  
NIL

32. SWOT Analysis

**A. Strength:**

- (i) Skilled and knowledgeable staff
- (ii) Well-equipped lab facilities
- (iii) Academically driven student community

**B. Weaknesses:**

- (i) Reduced number of research grants
- (ii) Low number of acclaimed publications
- (iii) Lack of inter disciplinary innovation projects

**C. Opportunities:**

- (i) Competent Industry collaboration
- (ii) MOUs with top tier companies
- (iii) Knowledge exchange with other educational institutions

**D. Threats:**

- (i) High Staff attrition
- (ii) Competitive Quality Accreditation
- (iii) Low Industry Placements

33. Details on whether the following are maintained/updated regularly

Course Files	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Personal Files of Teaching and Non -Teaching staff members	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
IA Audit	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
P- Files	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Student Feedback/ Faculty Feedback/ Program Feedback	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Appraisal	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Whether Innovative Teaching Methods Included	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

34. Any other information, which is not covered above:

*D. SURESHA D. Suresh*

Name and Signature of the HOD

H.O.D.-Information Science & Engineering  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006, D.K., Karnataka

*[Signature]*  
Principal  
A.J. Institute of Engineering & Technology  
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## Observations of the Academic Audit Team:

- Emphasis on student publications given.
- Encouraged staff to register for Phd programs.
- More focus to be given to research grants and counselling work.

## Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr. Rajesh. Rai	Chairman	AJ IET	
2	Vinod D'Souza	Internal dept	AJ IET	
3	GANESHA.M	External mentor	GEC, Koppal	

IQAC COORDINATOR

PRINCIPAL

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## REPORT ON THE ACADEMIC AUDIT

(Academic Year Start Date- 18-10-2021 - End Date 16- 07- 2022)

- Name of the Department:** Mechanical Engineering
- Vision of the Department:** To create globally competent and self-reliant mechanical engineers adaptive to an interdisciplinary environment contributing to society through development, authority and entrepreneurship.
- Mission of the Department:**
  - To offer high quality graduate program in the field of Mechanical Engineering with value education to the students and make them responsive to societal needs.
  - To nurture the students with a global outlook for a sustainable future with high moral and ethical values.
  - To strengthen collaboration with industries, academia and research organizations to enrich learning environment, thus enhance research and entrepreneurship culture.
  - To create awareness about the need of interdisciplinary applications through alumni industry-institution interactions.

#### 4. Sanctioned Intake (Program wise)

SLNO:	Name of Program	Sanctioned Intake	Number of Students Admitted
1	Mechanical Engineering	60	59

#### 5. Overall Demand Ratio: 59/60

#### 6. Students Enrollment (Program wise) :

Program	Female	Male	Total
Mechanical Engineering	0	59	59

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## 7. Result Analysis :

Semester	Total No. of Students	Total No. of Absentees	Total No. of Students Appeared	FCD	FC	SC	PASS	FAIL	Pass %	PI (%)
1	58	NIL	56	6	18	0	0	34	37.9	0.310
2	58	NIL	56	6	18	0	0	34	37.9	0.310
3	21	NIL	21	2	6	5	13	8	61.90	45.00
4	21	NIL	21	3	10	1	0	7	66.67	0.525
5	55	NIL	55	8	15	11	3	18	67.30	53.10
6	55	NIL	55	14	11	10	0	19	64.81	56.8
7	48	NIL	48	24	19	04	0	1	97.92	83.9
8	48	NIL	48	47	01	0	0	0	100	99.50

## 8. Number of classrooms and Laboratories with ICT facilities:

04 Class rooms & 2 Labs

## 9. Total number of computers available for students :

72

## 10. No. of students qualifying in State/ National/ International level examinations (eg:

GATE/GMAT/CAT/GRE/TOEFL/IELTS Civil services/State Government examinations):

01

## 11. Details of Students Achievements:

TECHNICAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
-	-	-	-	-	-	-	-	-	-	-	-

CULTURAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
-	-	-	-	-	-	-	-	-	-	-	-

SPORTS											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			

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No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
-	-	-	-	-	-	-	-	1			1

## 12. Details of Student Publications in Conferences/Journals

Title of the paper	Name of the author(s)	Details of the Publication
"Performance, combustion and emission characteristics of single cylinder CI engine with WCO biodiesel and nanoparticles"	Karthik, B.K.	ISSN-2214- 7853 Elsevier

## 13. Details of Students completed Certification Programs

Year	No of Students	Name of the Course and Course Provider
1 <sup>st</sup>	-	-
2 <sup>nd</sup>	-	-
3 <sup>rd</sup>	-	-
4 <sup>th</sup>	-	-

## 14. Details of Student Undergone Internships

ACADEMIC YEAR: 2021-22		Total Number of Internship undergone by students: 53	
Sl No	Company Name	Total No of Students	
1	Ashutosh Engineering	07	
2	BASF India.Ltd	01	
3	Government Tool room and Training center	12	
4	Kakunje Software Private Limited	01	
5	Mangalore pipes,mangalore	05	
6	prinston smart engineering Bangalore	05	
7	Shakti tools	02	
8	Southern railyways , Mangalore	10	
9	Toyota kirloskar Motors Pvt Ltd	02	
10	Virtual Labs (NITK SURATHKAL)	01	
11	western coal field ltd	01	
12	Western Indian Plywood Ltd	06	

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## 15. Details of students undertaken Mini Projects

Sl. No	Batch	USN	Students Name	Guide	Title
1	B1	4JK18ME017	ELDRIN PEREIRA	M.SunilKumar S	MICRO QUADCOPTER
2		4JK18ME005	AKARSH		
3		4JK18ME024	MUHAMMAD SAHIL ARSHAD		
4		4JK20ME400	SHREYANK S		
5	B2	4JK19ME015	HARSH SRIVASTAVA	Mr.Harold J Dsouza	SOLENOID ENGINE
6		4JK19ME036	RISHI JOSHI		
7		4JK19ME013	ESHANK JALAN		
8		4JK19ME027	MONISH AHMAD BAKHTIYAR		
9	B3	4JK19ME034	PRAJWAL SURESH	Mr.Prakhyath	GRASS CUTTER
10		4JK19ME044	SHAMATH B ACHAR		
11		4JK19ME048	SUMANTH N		
12		4JK19ME018	JAGATH S SHETTY		
13	B4	4JK19ME045	SHARVARI	Dr.Sreejith	MINI ROVER
14		4JK19ME004	AKHILA V P		
15		4JK19ME002	ABHILASH A S		
16		4JK19ME003	AKASH MOHANAN		
17	B5	4JK19ME007	ANVESH C N	Mr.Nitin Shet	ROBOT
18		4JK19ME011	CHEZHAN B K		
19		4JK19ME017	J ABHISHEK		

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20		4JK19ME022	K P CHARAN KUMAR		
21	B6	4JK19ME037	RONAK REON RAJ DAVID	Mr.Karthik	DOOR OPENING MECHANISM
22		4JK19ME012	DHANUSH M S		
23		4JK19ME020	JOYSON D'SOUZA		
24		4JK19ME040	SAMRUTH N		
25	B7	4JK19ME029	MUHAMMED MUNAVVAR C.P	Dr. Rajesh Rai P	SOLENOID ENGINE
26		4JK19ME005	ALFAZ IBRAHIM		
27		4JK19ME030	MUHAMMED NIHAD S HUSSAIN		
28		4JK19ME042	SATVIK POOJARY		
29	B8	4JK19ME041	SARTHAK SHETTY	Mr.Sudheer Kini	EXOSKELETON SUITE
30		4JK19ME014	GOUTHAM SHETTY		
31		4JK19ME050	TRIVIKRAMA		
32		4JK19ME039	SAMBHRAM R.CHOWTA		
37	B10	4JK19ME006	AMALRAJ K	Mr.Prasad B G	CNC DRAWING MACHINE
38		4JK19ME010	BINEESH VARGHESE		
39		4JK19ME019	JESWIN BIJU		
41	B11	4JK19ME023	MANEESH N K	Prakhyath Jain	VOICE CONTROLLED ARDUINO CAR"
42		4JK19ME031	NIKHIL		
43		4JK19ME047	SIBIN K SAJI		
53	B14	4JK18ME012	BHARATH P		FIRE DETECTOR

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54		4JK19ME028	MUHAD MUSTHAFA	Dr. Vignesh Nayak	
55		4JK19ME032	NITHIN P		
56		4JK19ME038	SAJUN V N		

## 16. Details of students undertaken Major Projects

Sl. No	Batch	USN	Team Members	Guide	Title
1	B1	4JK18ME044	VIGNESH R PAI	Dr. Vignesh Nayak	Electricity generation from Hydrodynamic behaviour of floating substances in directional seas
2		4JK18ME014	DEEPA A S		
3		4JK18ME018	HARSHITH SHETTY		
4		4JK19ME402	MANISH K ANCHAN (TL)		
5	B2	4JK19ME405	SHRAVAN K	Mr. Prakhyath	Experimental and computational analysis of co-centric tube heat exchanger with pin-fin
6		4JK18ME026	PAVAN KUMAR (TL)		
7		4JK18ME036	SHARAN CHANDRAHAS		
8		4JK18ME038	SHRAVAN P C		
9	B3	4JK18ME050	VASANTHKUMAR T S	Mr. Sunil Kumar S	A novel plastic waste management system to control Air-pollution
10		4JK18ME047	YOJITH K (TL)		
11		4JK18ME051	RAKSHITH ACHARYA		
12		4JK18ME039	SHRAVANRAJ KAMBALI		
13	B4	4JK18ME028	PRANAV T V	Dr. Sreejith B K	Development of 360 degree rotating sound waves fire extinguisher.
14		4JK18ME032	SARANG C M (TL)		
15		4JK18ME049	ABHISHEK SASIDHARAN		
16		4JK18ME027	PRANAV A P		
17	B5	4JK18ME003	ADITH AJITH KUMAR	Mr. Harold J D'Souza	Mechanical response of elastomers subjected to degrading environment
18		4JK18ME015	DHARMIK ATTAVAR		
19		4JK18ME040	SHRUJAN J RAI (TL)		
20		4JK19ME403	MANISH M P		
21	B6	4JK18ME048	SHREEJESH K	Mr. Sudheer Kini K	
22		4JK18ME052	VISHNU V NAIR (TL)		

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23		4JK18ME041	SRAVAN CHANDRASEKHARA N		Development of disinfection robot using UV light and sanitisation
24		4JK18ME043	VENKITESH RAGHAV R		
25	B7	4JK18ME021	LESTON LOBO	Mr. Prakhyath	Multi-purpose inspection robot
26		4JK18ME009	ASHISH H		
27		4JK18ME045	VIGNESH (TL)		
28		4JK18ME013	DEEKSHITH		
		4JK18ME031	ROSHAN DSOUZA (TL)		
32		4JK18ME016	DHEERAJ		
33	B9	4JK19ME404	MOHAMMED FAYAZ	Mr. Karthik A V	Design and development of Remote controlled coconut tree digging and fertilizer pouring machine
34		4JK19ME406	VISHWAJEETH ARUN NAIR		
35		4JK19ME401	JAYAPRAKASH B N		
36		4JK18ME020	KAPOOR SAHIL (TL)		
37	B10	4JK17ME011	ASHIN (TL)	Mr. Prasad B G	Road sign recognition and speed variation system
38		4JK17ME023	ISMAIL EBRAHIM		
39		4JK17ME017	EMIL WILLIAM MAVEETIL		
40		4JK17ME034	MOHAMMED ABSHAR		
41	B11	4JK17ME013	BASIL T BABY	Mr. Prashanth D A	Production of fuel from waste plastic material through injection moulding process
42		4JK18ME007	AKHIL RAJ E S (TL)		
43		4JK18ME002	ABRAHAM MATHEW		
44		4JK18ME006	AKHIL K S		
45	B12	4JK18ME053	ANIRUDH K	Dr. Rajesh Rai P	Automated wheelchair cum Stretcher
46		4JK18ME030	RITVIK P SHETTY		
47		4JK18ME033	SARVESH S		
		4JK18ME019	HARSHITH V SHETTY		
48		4JK18ME035	SHANTHANU SUDHAS		
49	B13	4JK18ME004	AJAY RAJ M J (TL)	Mr. Sunil Kumar S	Investigation of mechanical behaviour of Polylactic acid (PLA) by experimental and numerical method.
50		4JK17ME067	MOHAMMAD SANEEN		
51		4JK18ME034	SAURAV C PADMASHALI		
52		4JK18ME042	VAISHNAV BALIGA (TL)		

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## 17. Details of Industry Visits Organized for Students

SI No.	Date	Company Details	No of students
1	22/02/2022	Government Tool Room and Training center	21

## 18. Details of Outreach Programs(AICTE Activity/NSS/NCC etc):

SI NO	USN	STUDENT NAME	Adress of Institute facilitated the work
1	4JK17ME013	BASIL T BABY	Swatch Bharath Abhiyan.
2	4JK17ME028	KAVAN K	Swatch Bharath Abhiyan
3	4JK17ME067	MOHAMMAD SANEEN	D.K.Z.P.H.P. SCHOOL VISIT
4	4JK18ME002	ABRAHAM MATHEW	Ayroor GramaPanchayath,Pathanamthitta
5	4JK18ME003	ADITH AJITH KUMAR	Volunteering at Kateel Bramha Kalashotsava 2) Swach Bharat Abhiyan Phase 5
6	4JK18ME004	AJAYRAJ M J	Swatch Bharath Abhiyan.
7	4JK18ME006	AKHIL K S	Swatch Bharath Abhiyan.
8	4JK18ME007	AKHILRAJ E S	Swatch Bharath Abhiyan.
9	4JK18ME009	ASHISH H	1)school visit, D K Jilla Panchayat Government School 2) SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore
10	4JK18ME013	DEEKSHITH	1)school visit, D K Jilla Panchayat Government School and 2) SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore
11	4JK18ME014	DEEPA A S	1) Volunteering at Kateel Bramha Kalashotsava 2) Swach Bharat Abhiyan Phase 5
12	4JK18ME015	DHARMIK ATTAVAR	1) Volunteering at Kateel Bramha Kalashotsava 2) Swach Bharat Abhiyan Phase 5



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13	4JK18ME016	DHEERAJ	1) school visit, D K Jilla Panchayat Government School and 2) SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore
14	4JK18ME018	HARSHITH SHETTY	SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore
15	4JK18ME019	HARSHITH V SHETTY	1) Volunteering at Kateel Bramha Kalashotsava 2) Swach Bharat Abhiyan Phase 5
16	4JK18ME020	KAPOOR SAHIL	1) Swach Bharath Abhiyan.
17	4JK18ME021	LESTON LOBO	1) school visit, D K Jilla Panchayat Higher Primary School and 2) SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore
18	4JK18ME026	PAVAN KUMAR	1) Swach Bharath Abhiyan. 2) beach cleaning
19	4JK18ME027	PRANAV A P	1) Peruvayal Grama Panchayath, Kozhikode
20	4JK18ME028	PRANAV T V	1) Swach Bharath Abhiyan.
21	4JK18ME029	PRATHEEK B V	1) Swach Bharath Abhiyan. 2) beach cleaning
22	4JK18ME030	RITVIK P SHETTY	1) Swach Bharath Abhiyan conducted by Rama Krishna mission mangaladevi, mangalore 2) beach cleaning at bengre
23	4JK18ME031	ROSHAN DSOUZA	1) Volunteering at Kateel Bramha Kalashotsava 2) Swach Bharat Abhiyan Phase 5
24	4JK18ME032	SARANG C M	1) Swach Bharath Abhiyan.
25	4JK18ME033	SARVESH S	1) Swach Bharath Abhiyan. 2) beach cleaning
26	4JK18ME034	SAURAV C PADMASHALI	1) SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore 2) Beach cleaning at Bengre 3) School Visit
27	4JK18ME035	SHANTHANU SUDHAS	1) SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore 2) Beach cleaning at Bengre 3) School Visit
28	4JK18ME036	SHARAN CHANDRAHAS	1) school visit, D K Jilla Panchayat Higher Primary School and 2) SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore
29	4JK18ME038	SHRAVAN P C	1) SKILL DEVELOPMENT ACTIVITY 2) FOOD PRESERVATION/PACKING 3) SWACHH BHARATH conducted by

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			RAMAKRISHNA MISSION mangaldevi mangalore
30	4JK18ME039	SHRAVANRAJ KAMBALI	1) school visit
31	4JK18ME040	SHRUJAN J RAI	1) school visit, D K Jilla Panchayat Higher Primary School and 2) SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore
32	4JK18ME041	SRAVAN CHANDRASEKHARAN	1) Swatch Bharath Abhiyan.
33	4JK18ME042	VAISHNAV BALIGA	1) Swatch Bharath Abhiyan.
34	4JK18ME043	VENKITESH RAGHAV R	Chorode GramaPanchayath,Kozhikode
35	4JK18ME044	VIGHNESH R PAI	SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore
36	4JK18ME045	VIGNESH	1) SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore 2) Beach cleaning at Bengre 3) School Visit
37	4JK18ME047	YOJITH K	A.U.P.SCHOOL,DHARMATHADKA
38	4JK18ME048	SHREEJESH K	1) Swatch Bharath Abhiyan.
39	4JK18ME049	ABHISHEK SASIDHARAN	1) Swatch Bharath Abhiyan.
40	4JK18ME050	VASANTHKUMAR T S	GOVT school holenarasipura (TATTEKERE)
41	4JK18ME051	RAKSHITH ACHARYA	1) SWACHH BHARATH conducted by RAMAKRISHNA MISSION mangaldevi mangalore
42	4JK18ME052	VISHNU V NAIR	1) Koipuram GramaPachayath, Pathanamthitta
43	4JK18ME053	ANIRUDH K	1) Swatch Bharath Abhiyan.
44	4JK19ME401	JAYAPRAKASH	D.K.Z.P.H.P. SCHOOL VISIT
45	4JK19ME402	MANISH K ANCHAN	school visit, D K Jilla Panchayat Government School
46	4JK19ME403	MANISH M P	facilitating 100% digitalized money transaction 2) developing and managing efficient garbage disposable system
47	4JK19ME404	MOHAMMED FAYAZ	D.K.Z.P.H.P. SCHOOL VISIT
48	4JK19ME405	SHRAVAN K	1)Worked as Volounteer for Kateel Brahmakalashotsava AND 2)Beach cleaning conducted by BEACH REJUVENATION ARMY

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49	4JK19ME406	VISHWAJEETH ARUN NAIK	Volunteering at Sai Mandir Temple
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## 19. Details of Funds received by students for various activities:

SI.NO	TITLE	FUNDED AWARDED	YEAR	RUPEES	GUIDE
1	DEVELOPMENT OF 360 DEGREE ROTATING SOUNDWAVE FIRE EXTINGUISHER	VTU	2021-2022	7500/-	Dr. Sreejith B.K
2	A NOVEL PLASTIC WASTE MANAGEMENT SYSTEM TO CONTROL AIR POLLUTION	KSCST	2021-2022	7000/-	Dr.Sunil Kumar S

## 20. Faculty strength and specialization.

Sl. No.	Name	Designation	Qualifications	Experience	Area of Specialization	No. of Ph.D Guided/Guiding
1	Dr. Rajesh Rai P	Professor	Ph.D	27	Advanced Manufacturing Engineering	-
2	Dr. Vighnesha Nayak	Associate Professor	Ph.D	10	IC Engines and Combustion	-
3	Dr. Sreejith B K	Associate Professor	Ph.D	10	Aerodynamics	-
4	Dr. Sunil Kumar S	Assistant Professor	Ph.D	15	Fracture Mechanics	-
5	Mr. Prashantha D A	Assistant Professor	M.Tech	15	Materials Manufacturing	-
6	Mr. Harold Joyson D'Souza	Assistant Professor	M.Tech	12	Computer Aided Mechanical Design and Analysis	-
7	Mr. Nithin Shet	Assistant Professor	M.Tech	08	Manufacturing	-
8	Mr. Sudheer Kini	Assistant Professor	M.Tech	08	Machine Design	-
9	Mr. Prakhyath	Assistant Professor	M.Tech	05	Advanced Thermal Power	-

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					and Energy Systems	
10	Mr. Prasad B G *	Assistant Professor	M.Tech	12	Computer Integrated Manufacturing	-
11	Mr. Karthik A. V *	Assistant Professor	M.Tech	04	Thermal Science and Energy Systems	-

## 21. No. of Faculties Registered for Ph.D Programs:

NIL

## 22. Details of Faculty Publications indexed in SCOPUS/Web Of Science/UGC CARE

Sl No.	Title of the paper	Name of the author(s)	Details of the Publications (ISSN /ISBN, Volume, Date of Publication etc.)	Indicate Scopus/Web of Science/UGC Care
1	"Performance, combustion and emission characteristics of single cylinder CI engine with WCO biodiesel and nanoparticles"	V. Nayak, A.V. Sreejith, B.G. Prasad, & K. Sudheer Kini,	ISSN-2214- 7853	Scopus
2	Numerical Investigation on the Effect of Leading-Edge Tubercles on the Laminar Separation Bubble.	Sathyabhama, A., Sreejith, B. K.	ISSN 1735-3572, EISSN 1735-3645.	SCIE, Scopus, WOS
3	On Mechanical Response of Aluminum Alloys in Corrosive Environment	Sunil Kumar S, Neelakantha V Londe, Dilip Kumar K, Mohammed Ibrahim Kittur	ISSN : 2229-838X e-ISSN : 2600-7916	Scopus

## 23. Books / Chapters in edited Volumes and papers in National/International Conference Proceedings by Faculties during the year

Sl No	Title of the Book Chapter	Name of the author(s)	Details of the Publications (ISSN/ISBN, Volume, Date of Publication etc.)	Details of the Publisher
	-	-	-	-

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## 24. Books published by the Faculties during the year

Sl No.	Title of the Book	Name of the author(s)	Details of the Publications(ISSN/ISBN, Volume, Date of Publication etc)	Details of the Publisher
-	-	-	-	-

## 25. Number of Faculty who received National/ International fellowship/Financial/Awards Support by various agencies:

Sl No.	Name of the Faculty	Details of Fellowship/Financial/Awards	National/International
-	-	-	-
-	-	-	-

## 26. Research funds sanctioned and received from various agencies, industry and other organizations:

Sl No.	Name of the Project	Name of the Principal Investigator	Year of Award	Funds Sanctioned (Rs.)	Duration of the project
-	-	-	-	-	-

## 27. Number of Patents filed/published/awarded:

Sl. No.	Title of the Patent	Name of the Publisher(s)	Details of Patent Publications	Status(fil ed/publi shed/aw arded)
-	-	-	-	-

  
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## 28. Student Mentoring (mentor-wise list with mentee):

Sl. No.	Name of the Mentor	No. of Mentees
1	Mr. Harold J D'Souza	17
2	Mr. Nithin Shet	17
3	Mr. Prakhyath	17
4	Dr. Vighnesha Nayak	17
5	Dr. Rajesh Rai P	16
6	Mr. Prasad B G	17
7	Dr. Sunil Kumar	17
8	Dr. Sreejith B K	17
9	Mr. Prashantha D A	18
10	Mr. Sudheer Kini	18
11	Mr. Karthik A V	18

## 29. Details of seminar/symposia/conference/refresher course/training programs/webinars organized during the year:

Sl No	Title of Activity	Date
1	Webinar on Computer Aided Engineering	19-07-2021
2	Webinar on PTC-GTTC-COE	24-07-2021
3	Workshop on Autodesk Fusion 360	18-11-2021
4	Technical talk- Design Innovation for Successful career in the Field of aeronautics, Space and Defense for Mechanical Engineers	28-04-2022
5	Technical talk- "Surface treatment Using Thermal Spray Coating"	25-04-2022
6	Prerequisites to be a designer Engineer	31-05-2021
7	Technical talk on Building and Automotive Club	23-10-2021

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ACADEMIC YEAR: 2021-2022			
Total Number of Seminar undergone by students: 53			
Sl No	USN	Name	Title
1	4JK18ME002	ABRAHAM MATHEW	Laser Ignition
2	4JK18ME003	ADITH AJITH KUMAR	Speed detection of moving vehicle using speed camera
3	4JK18ME004	AJAYRAJ M J	fault Diagnosis of various Equipments using AI
4	4JK18ME006	AKHIL K S	Ultrasonic Welding
5	4JK18ME007	AKHILRAJ E S	Eddy Current Brakes
6	4JK18ME009	ASHISH H	Solar powered Air conditioning System
7	4JK18ME013	DEEKSHITH	Evacuated Tube Collector
8	4JK18ME014	DEEPA A S	Direct Methanol Fuel Cells
9	4JK18ME015	DHARMIK ATTAVAR	Self Inflation Tyre system
10	4JK18ME016	DHEERAJ	3D Printing Technology
11	4JK18ME018	HARSHITH SHETTY	Regenerative Braking System
12	4JK18ME019	HARSHITH V SHETTY	Autonomous car
13	4JK18ME020	KAPOOR SAHIL	Flying car transportation system
14	4JK18ME021	LESTON LOBO	Antilock Braking System
15	4JK18ME026	PAVAN KUMAR	Agribot
16	4JK18ME027	PRANAV A P	i-VTEC ENGINES
17	4JK18ME028	PRANAV T V	Nanotechnology Solar System
18	4JK18ME029	PRATHEEK B V	Dual Clutch Transmission
19	4JK18ME030	RITVIK P SHETTY	Virtual Manufacturing
20	4JK18ME031	ROSHAN DSOUZA	Six Stroke Engine
21	4JK18ME032	SARANG C M	Solar Powered Air cooling system for idle parked cars
22	4JK18ME033	SARVESH S	Floating Wind Mills



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23	4JK18ME034	SAURAV C PADMASHALI	Pyrolysis of pastic waste
24	4JK18ME035	SHANTHANU SUDHAS	Hydrogen Fuel cell
25	4JK18ME036	SHARAN CHANDRAHAS	Airbags
26	4JK18ME038	SHRAVAN P C	Airless Tyres
27	4JK18ME039	SHRAVANRAJ KAMBALI	geothermal energy extraction and utilization in oilfields
28	4JK18ME040	SHRUJAN J RAI	Green Tribology
29	4JK18ME041	SRAVAN CHANDRASEKHARAN	Automatic Air Filter Cleaning System
30	4JK18ME042	VAISHNAV BALIGA	Laser Beam Welding
31	4JK18ME043	VENKITESH RAGHAV R	AQUA SILENCER
32	4JK18ME044	VIGHNESH R PAI	Wind as an Energy Resource
33	4JK18ME045	VIGNESH	Dual Fuel Engine
34	4JK18ME047	YOJITH K	Hyperloop
35	4JK18ME048	SHREEJESH K	Solid Waste Management
36	4JK18ME049	ABHISHEK SASIDHARAN	Hydroforming
37	4JK18ME050	VASANTHKUMAR T S	seatbelts
38	4JK18ME051	RAKSHITH ACHARYA	Electronic Fuel Injection
39	4JK18ME052	VISHNU V NAIR	ADVANCEMENT IN BIOMETRIC TECHNOLOGY
40	4JK18ME053	ANIRUDH K	Air Powered Vehicle
41	4JK17ME028	KAVAN K	Electric Vehicle
42	4JK17ME067	MOHAMMAD SANEEN	Tidal Energy
43	4JK19ME401	JAYAPRAKASH B N	Green Engine
44	4JK19ME402	MANISH K ANCHAN	Bio- diesel development from Rice Bran oil

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45	4JK19ME403	MANISH M P	Combined Regenerative Suspension and electromagnetic braking
46	4JK19ME404	MOHAMMED FAYAZ	W Engine
47	4JK19ME405	SHRAVAN K	valvetronic Engine Technology
48	4JK19ME406	VISHWAJEETH ARUN NAIR	Intelligent safety control for Automotive system
49	4JK17ME011	ASHIN M K	Light Weight Material -Carbon Fiber
50	4JK17ME013	BASIL T BABY	Biomechatronics Hand
51	4JK17ME017	EMIL WILLIAM MAVEETIL	Intelligent Manufacturing in the context of Industry4.0
52	4JK17ME023	ISMAIL EBRAHIM	Maglev Vehicles
53	4JK17ME034	MOHAMMED ABSHAR	Liquid nitrogen as non polluting fuel

## OUTCOME:

**Skill Development:** Acquisition of specific skills such as writing, public speaking, or technical abilities.  
**Expert Insight:** Exposure to industry experts and advanced topics not always covered in standard curriculum.

**Interactive Learning:** Hands-on experience and practical application of knowledge.

**Networking Opportunities:** Connections with professionals, peers, and potential mentors.

### 30. Details of of Functional MoUs and activity mapping:

SI No	MOU	Year	Activities
1	Government Tool and Training Centre	2021-22	Industrial visit

### 31. Details of Consultancy Work in the department:

NIL

### 32. SWOT Analysis

#### A. Strength:

- Strong Curriculum:** A well-rounded curriculum that covers fundamental and advanced topics in mechanical engineering.
- Experienced Faculty:** Qualified and experienced faculty members with strong academic and industry backgrounds.
- Modern Laboratories:** Well-equipped laboratories and workshops providing hands-on experience and practical skills.

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4. **Industry Connections:** Established relationships with industries, leading to internships, placements, and real-world project opportunities.
5. **Student Organizations:** Active student clubs and organizations that enhance learning through competitions, workshops, and events.

## B. Weaknesses:

1. **Resource Limitations:** Possible constraints in funding or resources for advanced projects or facility upgrades.
2. **Limited Research Grants:** Potential lack of funding for extensive research projects or faculty development.
3. **Curriculum Gaps:** Potential gaps in the curriculum regarding emerging technologies or industry trends.

## C. Opportunities:

1. **Industry Collaborations:** Expanding partnerships with industries for research, internships, and joint projects.
2. **Emerging Technologies:** Integrating new technologies such as robotics, AI, and sustainable engineering into the curriculum.
3. **Grants and Funding:** Opportunities to secure research grants or funding from government and private sectors.
4. **Online Learning:** Developing online or hybrid courses to reach a broader audience and offer flexibility.
5. **Community Engagement:** Engaging with local communities through outreach programs and industry-relevant projects.

## D. Threats:

1. **Industry Changes:** Rapid technological advancements in the industry could outpace the curriculum and skill development.
2. **Student Enrollment:** Potential fluctuations in student enrollment numbers affecting department resources and operations.
3. **Job Market Conditions:** Variability in the job market for mechanical engineering graduates affecting placement rates and career opportunities.

### 33. Details on whether the following are maintained/updated regularly

Course Files

Yes

No

Personal Files of Teaching and Non -Teaching staff members

Yes

No

IA Audit

Yes

No

P- Files

Yes

No

Student Feedback/ Faculty Feedback/ Program Feedback

Yes

No

Appraisal

Yes

No

Whether Innovative Teaching Methods Included

Yes

No

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34. Any other information, which is not covered above: NK

(Dr. Rajesh Rai P)  
Name and Signature of the HOD

### Observations of the Academic Audit Team:

1. Funding from external Agencies should be improved.
2. Result should be improved.
3. More no of staff should participate in FDP/ Conferences.

### Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr. Rajesh Rai	Chairman	AJIET	Rai
2	John Prakash. vegu.	Ext dept member (ISE)	AJIET	Nijam
3	Dr Ganesh.	Ext College member (C.C.S)	GEC, Koppal	Ganesh

IQAC COORDINATOR

PRINCIPAL

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