



AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

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REPORT ON THE ACADEMIC AUDIT (Academic Year June, 2022 - May, 2023)

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+3	63

5. Overall Demand Ratio: 100 %


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6. Students Enrollment (Program wise) :

Program	Female	Male	Total
Computer Science and Engineering	24	39	63

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	0	63	29	12	6	2	14	77.78	65.87
2	63	1	62	42	9	4	0	8	87.3	80.6
3	66	0	66	21	18	7	46	20	69.69	65.1
4	66	0	66	46	9	01	56	10	84.85	84.47
5	58	0	58	16	22	12	50	8	86.20	69.82
6	58	0	58	33	16	03	52	06	89.65	82.76
7	61	0	61	42	15	2	59	2	96.72	89.75
8	61	0	61	59	2	0	60	1	98.36	99.59

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 Processor, 16GB RAM,

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			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):

NIL

11. Details of Students Achievements:

TECHNICAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated
2	5	-	-	-	-	-	-	-	-	-	-

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

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

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12. Details of Student Publications in Conferences/Journals

Title of the paper	Name of the author(s)	Details of the Publication
Flood Monitoring and Alert System	Mr. N. ARUL, Abhijith Rajendran, Albin Joseph, Athul Shaji, Sirius Thomas Mathews	Journal of Pensee , Volume 51 Issue 2, pp 453-469, Feb 2023
SMART SURVEILLANCE SYSTEM USING MACHINE LEARNING - SMART SURVEILLANCE SYSTEM USING MACHINE LEARNING	Mrs. Sharon C DSouza, Sandeep Benny, Shaham Abdulla C P, Sahad Abdulla C P, Albin John	2023 IJCRT Volume 11, Issue 5 May 2023 ISSN: 2320-2882
Social Platform for Auctioning In-Demand Tour Plans to Agencies	Mrs. Sharon C DSouza, Aneesh M Bhat, Gayathri MN, Harshith J Poojary, S Shivani Acharya	INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS – IJCRT Volume 11 Issue 5 May 2023
Android Messenger Application Using Flutter	Mr. Vijaykumar Dudhanikar, Laksh mikanth, Mohammed Shamal, Prathik b c kural, Omkaresh	INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS – IJCRT Volume 11, Issue 5 May 2023
Gesture Controlled Swarm of Mini Aerial vehicles	Mr. Vijaykumar Dudhanikar, Suraj J, Thrupthi, Vidya Keerthi M, Yomith T Mendon	INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS – IJCRT Volume 11, Issue 5 May 2023

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A Survey Paper on SAATHI: Women-Safety-Device Using IoT	Dr. Laxmi Gulappagol, Yashika a krishnani, Yuktika A krishnani, Khushi Pal, Kittu Kumari	Advances in Multidisciplinary Research and Development, Scripown Publications, Delhi, Chief Editor: Dr. Dhondiram Tukaram Sakhare, Edition: 1st, Publication Year: 2023, Chapter-13, Pages: 157-179, Volume – 8
Smart Device to Detect Leaf Disease in Pepper/Tomato/Rice Crop using Image Processing and Machine Learning Algorithm	Dr. Laxmi Gulappagol, Mr. Ramanatha Kini M G, Mr. Sharath Kumar, Mr. Abhishek D Mankame	National Conference on Emerging Innovations in Computer Science & Technology (NCEICT-2023), organized by the Department of Computer Science and Engineering, PES Institute of Technology and Management, Shivamogga on 12th May. 2023.
Lung Cancer Prediction With CT Scan Images Using Machine Learning	Mr. Siju V Soman, Akanksha, Akanksha U Saadhana, Nazila Hamad Bhava, Arva Fathima	International Journal of Creative Research Thoughts - IJCRT, Volume 11 Issue 5 .
Student Sentiment Analysis using NLP and ML	Mr. Siju V Soman, Exson Naveil Pereira, Shradha Sajeevan, Shrija B Shetty	International Journal of Creative Research Thoughts - IJCRT, Volume 11 Issue 4
Hand Gesture Recognition System to Control Keyboard Function	Mrs. Snitha shetty, Joel joseph, joel joseph, mithun kumar umesh, vaishnave	International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.11, Issue 5
CUT-FIT mobile application Project	Mrs. Vidya Myageri, Chirag J Kulal, Nishanth A	International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.11, Issue

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	Shetty, Sharath	5, May 2023
Brain Tumor Detection using Deep Learning	Mrs.Vidya Myageri,Abhishek D Mankame, Kaushal R, R Aditya, Sibin T S	National Conference on Emerging Innovations in Computer Science & Technology (NCEICT-2023), organized by the Department of Computer Science and Engineering, PES Institute of Technology and Management, Shivamogga on 12th May. 2023.
A survey paper on Brain Tumor Detection	Mrs.Vidya Myageri,Abhishek D Mankame, Kaushal R, R Aditya, Sibin T S	International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.11, Issue 5, May 2023
Smart Agriculture System using IoT	Mr.Chanchal Antony,Aman, Payal, Rahul H P, Rithesh N K	5th International Conference on Recent Advancements in Engineering and Technology (ICRAET – 23),Organized by: Institute For Engineering Research and Publication (IFERP), 19th & 20th May 2023
Knowledge Discovery Model for Water Quality Prediction Using Machine Learning	N. Arul,Dhanya D Shetty, Samiksha S Nagwekar, Sahana M Naik	International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 07 Issue: 05 May – 2023

13. Details of Students completed Certification Programs


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Year	No of Students	Name of the Course and Course Provider
2022-23	35	Block chain & Cryptocurrency(18CS71)

14. Details of Student Undergone Internships

Year	No of Students	Details of the Company
		Exxon Naveil Pereira, Shradha Sajeevan, Shrija B Shetty under the guidance of Mr.Siju V Soman
2022-23	11	Klientship Technologies Pvt Ltd
2022-23	11	Zephyr Technologies & Solution's Pvt Ltd
2022-23	7	Accolade Tech Solutions
2022-23	7	Cognitive Solutions
2022-23	7	Kakunje Software Pvt Limited
2022-23	4	Srishti Robotics Technologies Pvt Ltd
2022-23	2	AiRobosoft Products and services LLP
2022-23	2	Novigo Solutions Pvt. Ltd.
2022-23	2	Take It Smart Pvt. Ltd.
2022-23	2	Vivarttana Technologies Pvt. Ltd.
2022-23	1	Agile Tec
2022-23	1	Inoub Labs
2022-23	1	NicheSolv Pvt. Ltd.
2022-23	1	Provab Technosoft Pvt. Ltd.
2022-23	1	Rooloo Innovations
2022-23	1	Techspiritz

15. Details of students undertaken Mini Projects

Year	Name of the Student	Name of the Project	Name of the Guide
3 rd	Anvitha	DEV-NATION WEBSITE	MRS. SHARON D'SOUZA
3 rd	Isha Sheik Bashir		

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3 rd	Sannidhi S Rai		
3 rd	Anvitha		
3 rd	Pramya	CHAT-APPLICATION	MR. CHANCHAL ANTONY
3 rd	Prathvi Devadiga		
3 rd	Vidyashree Shetty		
3 rd	Alisha Ujwala		
3 rd	Thejaswi . D. S		
3 rd	Varsha B Shetty	CANDIDATE ELECTION SYSTEM	MR. SIJU SOMAN
3 rd	Yashas Manjar		
3 rd	Abhilash J Y		
3 rd	C A Prajwal		
3 rd	Dhruv Kishore Shetty	PROAGRO	MRS.SNITHA SHETTY
3 rd	N R Neeraj		
3 rd	S Athreya Shankar		
3 rd	Nishal S P Karkera		
3 rd	Mohammad Aman	COLLEGE BUS TRACKING SYSTEM	MS. NIKHILA
3 rd	Rahul D Shetty		
3 rd	Jeevan M		
3 rd	Lakshmi U Kurubara		
3 rd	Manvith K Amin	ONLINE AGRICULTURAL MANAGEMENT SYSTEM	DR. LAXMI GULAPPAGOL
3 rd	Hrithik G H		
3 rd	Bhagyashree		
3 rd	Sharath Kumar		
3 rd		FORMATTED	MRS.SNITHA SHETTY

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3 rd	Tikesh Raj	QUESTION PAPER GENERATOR	
3 rd	Nishanth		
3 rd	Vaishak		
3 rd	Karthik H R	TRIP PLANNER	MR.VIJAYKUMAR DUDHANIKAR
3 rd	Prateek Chandrasekar Kotian		
3 rd	Swasthik Achar		
3 rd	Ananya G Adyanthaya	LIFE JACKET	MR. VINAYAK
3 rd	Namratha Shetty		
3 rd	Prakruthi S Shetty		
3 rd	Shreya S Shetty		
3 rd	Adarsh Vinod	STUDENT ACADEMIC RECORD MANAGEMENT SYSTEM	MRS. VIDYA MYAGERI
3 rd	Advaith Prasad		
3 rd	Farzeen Haris		
3 rd	Karthik Ganesh		
3 rd	Ramsha R M	DATA TAG	MRS. SHARON D'SOUZA
3 rd	Poojashree A S		
3 rd	Rahul M Moolya	COMMAND LINE INTERFACE BASED CHAT TOOL	MRS.SNITHA SHETTY
3 rd	Manoranjan M	WEATHER FORECASTING	MR. SHARATH
3 rd	Adithyan K V		
3 rd	Ahmad Midlaj		

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3 rd	Mohammed	NAMMA PANCHAYAT	MRS. SNITHA SHETTY
3 rd	Zaid Ali		
3 rd	Deviprasad Rai P		
3 rd	Vaishishta		
3 rd	Vijeth Kumar		
3 rd	Cliva Rhea Moras	WEBSITE ON ORPHANAGE MANAGEMENT SYSTEM	MR. ARUL
3 rd	Prajna		
3 rd	Sushma		
3 rd	Mouna		

16. Details of students undertaken Major Projects

Year	Name of the Student	Name of the Project	Name of the Guide
4 th	KHUSHI PAL	Women Safety Device using IoT	DR. LAXMI GULAPPAGOL
4 th	KITTU KUMARI SINGH		
4 th	YASHIKA A KRISHNANI		
4 th	YUKTIKA A KRISHNANI		
4 th	YASHASWI G PUTHRAN	Bio Non -Bio Waste Segregator	MS. NIKHILA/ DR.ANTONY P J
4 th	S DIYA		
4 th	PRATHIKSHA D		

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4 th	SINCHANA C SHETTY		
4 th	JOEL JOSEPH	Hand Gesture Recognition System to Control Keyboard Function	Mrs. SNITHA SHETTY
4 th	JOEL SAM THOMAS		
4 th	MITHUN KUMAR UMESH		
4 th	VAISHNAV E		
4 th	SURAJ J	Gesture Controlled Swarm of Mini Aerial Vehicles	MR. VIJAYKUMAR DUDHANIKAR
4 th	THRUPTHI		
4 th	VIDYA KEERTHI M		
4 th	YOMITH T MENDON		
4 th	LAKSHMIKANTH	Android Messenger Using Flutter	MR. VIJAYKUMAR DUDHANIKAR
4 th	MOHAMMED SHAMAL		
4 th	PRATHIK B C KULAL		
4 th	OMKARESH		
4 th	ABHISHEK D MANKAME	Brain Tumour Detection Using Deep Learning	MRS. VIDYA MYAGERI
4 th	KAUSHAL R		
4 th	R ADITYA		
4 th	SIBIN T S		

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4 th	ABHIJITH RAJENDRAN	Flood Monitoring and Alert System Using IoT	MR. N ARUL
4 th	ALBIN JOSEPH		
4 th	ATHUL SHAJI		
4 th	SIRIUS THOMAS MATHEW		
4 th	ALBIN JOHN	Smart Surveillance Monitoring System Using Machine Learning	MRS. SHARON D'SOUZA
4 th	SAHAD ABDULLA C P		
4 th	SANDEEP BENNY		
4 th	SHAHAM ABDULLA C P		
4 th	EDWIN JOHNY MICHAEL	Image colorization and Detection using machine learning	Mrs. SNITHA SHETTY
4 th	JUGAL ALAN		
4 th	NISHANTH E		
4 th	VAMSI		
4 th	ADITHYA R SHANKAR	Driving Detection and Flagging	DR. ANTONY P J
4 th	DIVYATEJ V S		
4 th	KARTHIK R		
4 th	SACHIN A		

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4 th	ANEESH M BHAT	Social Media for Tourism and Custom Tour Maker	MRS. SHARON D'SOUZA
4 th	GAYATHRI M N		
4 th	HARSHITH J POOJARY		
4 th	S SHIVANI ACHARYA		
4 th	CHIRAG J KULAL	CUTFIT APP	MR. VINAYAK PAI/ MRS. VIDYA
4 th	NISHANTH A SHETTY		
4 th	SHARATH		
4 th	CHIRAG J KULAL		
4 th	AMAN	Smart Irrigation System	MR. CHANCHAL ANTONY
4 th	PAYAL		
4 th	RAHUL H P		
4 th	RITESH N K		
4 th	ARVA FATHIMA	Lung Cancer Prediction Using CT scan	MR. SIJU V SOMAN
4 th	AKANKSHA		
4 th	AKANKSHA U SAADHANA		
4 th	NAZILA HAMAD BHAVA		

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4 th	EXSON NAVEIL PEREIRA	Student Sentiment Analysis	MR. SIJU V SOMAN
4 th	SHRADHA SAJEEVAN		
4 th	SHRIJA B SHETTY		
4 th	DHANYA D SHETTY	Knowledge Discovery Model for Water Quality Prediction and Classification using Machine Learning	Mr. N ARUL
4 th	SAHANA MNAIK		
4 th	SAMIKSHA S NAGWEKAR		

17. Details of Industry Visits Organized for Students

Sl No.	Date	Company Details	No of students
1	12/11/2022 to 14/11/2022	TVS Motor company, Mysore	38
2	26/11/2022	Udupi Power Corporation Limited	47

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

Sl.NO	Activity Conducted
1	Helping Local to achieve good result and enhance their enrollment in technical / vocational./higher education
2	Promotion of appropriate technologies
3	Contribution to national level initiative of Government of India
4	Developing and managing efficient garbage disposal system

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5	Spreading Public awareness under rural outreach programs
6	Setting information imparting club for women leading to contribution in social and economic issues

19. **Details of Funds received by students for various activities:**The students from 6th Semester, Department of Computer Science and Engineering Deviprasad Rai P, Dhruv Kishore Shetty, Prateek Chandrasekar Kotian, and S. Athreya Shankar have secured First Runner Up for the project entitled “VEGSHELL” under the guidance of Prof. Snitha Shetty in IFERP-Project Competition, 2023 – Idea Phase held at Chennai on 17/04/2023 and received a fund of Rs. 10,000/-

20. Faculty strength and specialization.

Sl. No.	Name	Designation	Qualifications	Experience	Area of Specialization	No. of Ph.D Guided/Guiding
1	Dr. Antony P J	Professor & HoD	M. Tech and PhD	23	Natural Language Processing & Machine Learning	8
2	Dr. Laxmi Gulappagol	Associate Professor	M. Tech and PhD	14		-
3	Mr. Chanchal Antony	Assistant Professor	M. Tech	12	Computer Science & Engineering	
4	Mrs. Sharon C D'souza	Assistant Professor	M. Tech	09	Computer Science & Engineering	-
5	Mrs. Snitha Shetty	Assistant Professor	M. Tech	09	Computer Science & Engineering	-
6	Mr. Siju V Soman	Assistant Professor	M. Tech	11	Computer Science & Engineering	-
7	Mrs. Archana S	Assistant Professor	M. Tech	06	Computer Science & Engineering	-
8	Ms. Nikhila	Assistant Professor	M. Tech	13	Computer Science & Engineering	-
9	Mr. N Arul	Assistant Professor	M. Tech	16	Computer Science & Engineering	-
10	Mr. Vinayak G Pai	Assistant Professor	M. Tech	20	Computer Science & Engineering	-

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11	Mr. Vijaykumar Dudhanikar	Assistant Professor	M. Tech	15	Computer Science & Engineering	-
12	Mrs. Vidya Myageri	Assistant Professor	M. Tech	06	Computer Science & Engineering	-
13	Mr. Amith K S	Assistant Professor	M. Tech	12	Computer Science & Engineering	-
14	Mr. Stanley Pradeep D'souza	Assistant Professor	M. Tech	10	Computer Science & Engineering	-
15	Mrs. Aishwarya Bhat	Assistant Professor	M. Tech	02	Computer Science & Engineering	-

21. No. of Faculties Registered for Ph.D Programs:08

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

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

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
-	-	-	-	-

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
-	-	-	-
-	-	-	-

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
1	Bio Non -Bio Waste Segregator	MS. NIKHILA/ DR.ANTONY P J	2023	Rs. 4500	1 year

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)
-	-	-	-	-

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

Second Year

Sl No	Name of the Mentor	Name of the Mentees
1	Mrs. Aishwarya Bhat	ABHISHEK R
2		ADARSH DAYANAND
3		ADITHI A SHETTY
4		ADWITH SHETTY
5		AKARSH S
6		AKSHAY SURESH M
7		ALOKE P P
8		AMARNATH K V
9		ANAUM FATHIMA
10		ANIRUDH V V
11		ARPITA SURESH NAIK
12		ASWANTH SREEJITH
13		ASWIN SURESH M
14		ATHIRA SANTHOSH
15		CHAITHANYASANKAR S
16		DARSHAN
17	Mr. Chanchal Antony	DHRITI R SHERIGAR
18		FROJAS JOSEPH
19		GURURAJ SHIVARAM
20		H P RAHUL
21		ISHA S SHETTY
22		JEEVITH H R
23		JEWEL CHRISTANAND PISSE
24		KARTHIK GANAPA R
25		KEVIN SAMU
26		KHALIFA BIN USMAN
27		KUSHAL D
28		LEKHA
29		LIKHITH KUMAR
30		MANASA M SHETTY

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31		MOKSHITHA S N
32		MUHAMMED RAFAD P
33	Mrs. Snitha Shetty	MUHAMMED SHAHIR A K
34		NAGAVARSHINI
35		NANDANA JAYARAM
36		NANDHANA SURESH
37		NIKSHITHA
38		NISHA
39		NISHITHA
40		NITHESH S KOTIAN
41		PANCHAMI V GUNAGA
42		PRARTHANA G
43		PRASHANTH S G
44		PRATHAM V ASAIGOLI
45		PRATHVI
46		RAKSHITHA SHETTY
47		S ARAVIND
48		SAISUJANYA B S
49		Mr. Arul N
50	SARANG A V	
51	SATVIK SHENOY K	
52	SAYYIDATH AYISHA	
53	SHRADDHA SREEKUMAR	
54	SHREYA G	
55	SIDHARTH V NAIR	
56	SNEHITH I	
57	SONAL WILSON D SOUZA	
58	UNNIKRISHNAN P V	
59	VAISHNAVI	
60	AKSHATHA	
61	K R ADITHYA	
62	MEGHA S GOWDA	
63	SPOORTHI SHET	
64	ADITYA AGNIHOTRI	
65	KIYASATH RAHMAN	
66	NAVEEN S ANKOLEKAR	
67	PRAJEETH	


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Third Year

Sl. No	Name of the Mentor	Name of the Mentees
1	Mr. Vijaykumar Dudhanikar	ABHILASH J Y
2		ADARSH VINOD
3		ADITHYAN K V
4		ADVAITH PRASAD
5		AHMAD MIDLAJ B
6		ALISHA UJWALA
7		ANANYA. G. ADYANTHAYA
8		ANVITHA
9		ANVITHA
10		ASHWIN SHETTY
11		BHAGYASHREE
12		C A PRAJWAL
13		CLIVA RHEA MORAS
14		DEVIPRASAD RAI P
15		DHRUV KISHORE SHETTY
16		FARZEEN HARIS
17		HRITHIK G H


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18		ISHA SHEIKH BASHIR
19		JEEVAN M
20	Ms. Nikhila	KARTHIK GANESH
21		KARTHIK H R
22		LAKSHMI U KURUBARA
23		MANNYA ANNA SAM
24		MANORANJAN.M
25		MANVITH K AMIN
26		MOHAMMAD AMAN
27		MOHAMMED
28		N. R. NEERAJ
29		NAMRATHA SHETTY
30		NEHA V P
31		NISHAL S. P KARKERA
32		NISHANTH
33		POOJASHREE A S
34		PRAKRUTHI S SHETTY
35		PRAMYA
36		PRATEEK CHANDRASEKAR KOTIAN
37		PRATHVI DEVADIGA
38	RAHUL. D. SHETTY	

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39	Mrs. Vidya Myageri	RAHUL M MOOLYA
40		RAMSHA RIYAZ AHMED MIRZANKAR
41		S. ATHREYA SHANKAR
42		SANNIDHI SHIVAPRASAD RAI
43		SHARATH KUMAR
44		SHREYA S SHETTY
45		SWASTHIK ACHAR
46		THEJASWI D. S
47		TIKESH RAJ
48		VAISHAK
49		VAISHISHTA
50		VARSHA B SHETTY
51		VEENA . V.R
52		VIDYASHREE SHETTY
53	VIJETH KUMAR	
54	YASHAS MANJAR	

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55	ZAID ALI AHAMAD
56	MOUNA R R
57	PRAJNA P
58	SUSHMA MALLESH KAIKAD

Fourth Year

Sl. No	Name of the Mentor	Name of the Mentees
1	Mr. Siju V Soman	ABHIJITH RAJENDRAN
2		ABHISHEK D MANKAME
3		ADITHYA R SHANKAR
4		AKANKSHA
5		AKANKSHA U SAADHANA
6		ALBIN JOHN
7		ALBIN JOSEPH
8		AMAN
9		ANISH M BHAT
10		ARVA FATHIMA
11		ATHUL SHAJI
12		CHIRAG J KULAL
13		DEVIKA ARUN T V
14		DHANYA D SHETTY
15		DIVYATEJ V S
16		EDWIN JOHNY MICHAEL
17		EXSON NAVEIL PEREIRA
18		FELIXON PAUL
19		GAYATHRI M N
20		HARSHITH J POOJARY
21		JOEL JOSEPH
22	Dr. Laxmi Gulappagol	JOEL SAM THOMAS



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23		JUGAL ALAN
24		KARTHIK R
25		KAUSHAL R
26		KHUSHI PAL
27		KITTU KUMARI
28		LAKSHMIKANTH
29		MITHUN KUMAR UMESH
30		MOHAMMED SHAMAL
31		NAZILA HAMAD BHAVA
32		NISHANTH E
33		NISHANTH A SHETTY
34		PAYAL
35		PRATHIK B C KULAL
36		PRATHIKSHA D
37		R ADITYA
38		RAHUL H P
39		RITESH N K
40		S DIYA
41		S SHIVANI ACHARYA
42		SACHIN A
43	Mrs. Sharon C Dsouza	SAHAD ABDULLA C P
44		SAHANA NAIK
45		SAMIKSHA S NAGWEKAR
46		SANDEEP BENNY
47		SHAHAM ABDULLA C P
48		SHARATH
49		SHRADHA SAJEEVAN
50		SHRIJA B SHETTY
51		SIBIN T S
52		SINCHANA C SHETTY
53		SIRIUS THOMAS MATHEW
54		SUBHAN K M
55		SURAJ J
56		THRUPTHI

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57	VAISHNAV E
58	VIDYA KEERTHI M
59	YASHASWI G PUTHRAN
60	YASHIKA A KRISHNANI
61	YOMITH T MENDON
62	YUKTIKA A KRISHNANI
63	RADHA SHRI VAMSI
64	OMKARESH

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	Mrs Snitha Shetty	Build a Blockchain & Cryptocurrency Full-Stack Edition	Mr Amith	5 Days 10-01-2023, 16-01-2023, 17-01-2023, 23-02-2023, 24-02-2023	34	Innovation and Technological Advancement: Creating a new blockchain and cryptocurrency can drive innovation in blockchain technology and related fields. Economic Growth: If successful,a new cryptocurrency can stimulate economic growth by creating new investment opportunities and jobs. Financial Inclusion: Cryptocurrencies can potentially provide financial services to unbanked and underbanked populations.

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2	Dr Laxmi Gullappago 1	Nano sensors and Devices	National Institute of Technology Teachers Training & Research	5 Days 22-08-2022, 23-08-2022 24-08-2022, 25-08-2022, 26-08-2022	30	<p>Nanosensors and devices are poised to revolutionize numerous fields due to their exceptional sensitivity, specificity, and miniaturization</p> <p>Key Outcomes</p> <ul style="list-style-type: none"> ● Enhanced Healthcare: Early disease detection, personalized medicine, drug delivery systems, and real-time patient monitoring. ● Environmental Protection: Accurate pollution monitoring, water quality assessment, and climate change studies
3	Mr Siju V Soman	Mobile Application Development	Mr Navile Nageshwara Naveen	2 Days 15-05-2023, 16-05-2023	65	<ul style="list-style-type: none"> ● The workshop was well received and taught basics of building a mobile application using Android Studio ● The workshop provided a valuable opportunity for participants to learn about the working of mobile application development, its implementation and how it's designed with the help of front end and back end coding.
4	Mrs. Nikhila	A Technical Talk on the topic "AI ML Application for IoT"	Mr. Prashanth Kannadagu li, Senior Data Science Trainer in Dhaarini	03-01-2023	120	Students will establish themselves as effective professionals by solving real problems through the use of computer science knowledge and with attention to team work, effective communication,



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			Academy Bengaluru			critical thinking and problem solving skills.
5	Mrs. Nikhila	A Technical Talk on "Software Testing and Importance of Accessibility Testing"	Mr. Ramesha N, Manager - QA, Excelsoft Technologies Private Ltd, Mysore	01-10-2022	120	Educate audience about the software testing lifecycle and its critical role in software development. Highlight the importance of accessibility in creating inclusive software products. Explain accessibility standards and guidelines

30. Details of of Functional MoUs and activity mapping:

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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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. Selection criteria for internships will be determined by the Partner companies as per their requirements. The 'Company' shall conduct Tech talks/Workshops online free of cost on domains

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		<p>such as Blockchain, Cloud Computing, Database, Artificial Intelligence, Machine Learning, Mobile Development, Application Development and Full stack Development etc.</p> <ul style="list-style-type: none">• 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.• Any software and hardware requirements for attending Tech Talks or Workshop shall be arranged by the students and not by the ‘Company’.• 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.
4	Klientship Technologies Private Limited, Mangaluru	<ul style="list-style-type: none">• Based on technical strength details of areas on which internships for the students could be given.• Shall help in training the students whenever students approach them during the specified time given• College shall invite the expertise from Klientship when required based on the availability of resources• Klientship shall entertain any industrial visits if planned• Klientship shall provide all possible services to the with regard to consultancy at rates mutually agreed upon.
5	Techbyheart ,54/2967, 3rd Floor, Kohinoor Building Temple Road, Kadavanthra, Kochi, Ernakulam,	<ul style="list-style-type: none">• 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

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	Pin- 682020 India	<p>course offered by the Techbyheart in a timely and organized fashion.</p> <ul style="list-style-type: none">• 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• 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.• Techbyheart shall select campus ambassadors from among students who will be delegated tasks and responsibilities that the Techbyheart understands as necessary for the promotion, management, organization, improvement and continuance of the services offered.
6	Thaniya Technologies, Mangaluru	<ul style="list-style-type: none">• Both parties will designate a representative from its side who will be the primary point of contact on behalf of that party.• The College will provide the Labs with an Internet facility for the conduction of the workshops for the students.• 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.

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		<p>TECHNOLOGIES:</p> <ul style="list-style-type: none">➤ Python,➤ Machine Learning,➤ Artificial intelligence,➤ IoT,➤ DART,➤ Flutter,➤ Mean Stack,➤ POWER BI,➤ PEGA,➤ Design thinking,➤ Hadoop Big Data,➤ JAVA,➤ PHP
7	ACCOLADE TECH SOLUTIONS,Kankanady, Mangaluru	<ul style="list-style-type: none">•Based on technical strength Accolade shall specify the details of areas on which internships for the students belonging•Accolade shall help in training the students of whenever students approach them during the specified time.•Accolade shall engage the students for a time period mentioned in their syllabus which changes from time to time.•The Institute shall invite the expertise as and when required based on the availability of resources .•Accolade shall also entertain any industrial visits if planned by the Institute

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

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32. SWOT Analysis

A. Strength:

- (i) Dynamic leadership with great ambitions
- (ii) Qualified and committed academic staff.
- (iii) Career-focused teaching and learning system to achieve highly-skilled, ready-for-work graduates

B. Weaknesses:

- (i) Lack of full-time research scholars
- (ii) Patents and major startups are limited
- (iii) Lack of entrepreneurship development

C. Opportunities:

- (i) Teamup with Alumni network for recruitment and funding
- (ii) Can have a tie up with Local companies and can have an incubation center
- (iii) Since the department has a well structured labs , Can create products and generate revenue to the department

D. Threats:

- (i) Many Engineering Colleges nearby
- (ii) Pace of development in IT technology
- (iii) Shortage of academic agreements with foreign universities which could allow students to have dual degrees

32. 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


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Student Feedback/ Faculty Feedback/ Program Feedback Yes No

Appraisal Yes No

Whether Innovative Teaching Methods Included Yes No



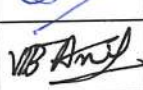
33. Any other information, which is not covered above:


 Dr. Antony P S 
 Name and Signature of the HOD

Observations of the Academic Audit Team:

1. Research Activity in the department need to be improved.
2. Student participation in cultural and sports outside the institute needs improvement.
3. Faculty participation in National/international fellowship needs improvement.

Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr. Rajesh Rai	Chairman	AJIET	
2	Mr Vinod D'Souza	External Department	AJIET	
3	Mr Anil BV	External	KVG, Sullia	


 IQAC COORDINATOR


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REPORT ON THE ACADEMIC AUDIT (Academic Year Start Date- 19-08-2022 – End Date- 31-08-2023)

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	33

5. Overall Demand Ratio: $33/60=0.55$

6. Students Enrollment (Program wise) :

Program	Female	Male	Total
Civil Engineering	14	19	33

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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	FAIL	Pass %	PI (%)
1	33	2	31	3	7	7	1	13	58.06	38.71
2	29	0	29	6	9	4	3	7	75.86	50
3	29	1	28	3	6	4	2	13	53.57	35.71
4	29	1	28	8	7	3	1	9	67.86	53.57
5	30	5	25	5	8	5	0	7	72	54
6	30	2	28	5	16	0	0	7	75	60.71
7	55	5	50	16	17	7	1	9	82	65
8	55	2	53	35	7	0	0	11	79.25	75.94

8. Number of classrooms and Laboratories with ICT facilities: 4 Class room +1 Lab

9. Total number of computers available for students : 30

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 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated
-	-	-	2	-	-	-	2	-	-	-	-

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CULTURAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated
-	-	-	-	-	1	-	03	-	-	-	7

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

12. Details of Student Publications in Conferences/Journals

Title of the paper	Name of the author(s)	Details of the Publication
Detecting and quantifying GHG emissions from different land use systems,	Mr. Prem Kumar Mr. Nikesh Sawanth	National conference on Recent trends in Engineering and Technology, Bangalore, 17-18, June, 2022

13. Details of Students completed Certification Programs

Year	No of Students	Name of the Course and Course Provider
1 st	NIL	-
2 nd	NIL	-
3 rd	NIL	-
4 th	NIL	-

14. Details of Student Undergone Internships

Year	No of Students	Details of the Company
1 st	-	-
2 nd	-	-
3 rd	-	-
4 th	9	Camino Group

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		RISE TBI, University Road, South Kalamassery, Kalamassery, Kochi, Kerala 682022
7		Assmas constructions pvt ltd 1st Floor, Sindoor Build, A B Road, Panaji, behind ICICI BANK LTD, Goa, 403001
6		Motishyam 6th and 7th Floor, "Empire Mall", M.G. Road, Mangaluru, Karnataka 575003
5		Keylink No. 686, 3rd cross, Yelahanka, New Town, Bengaluru, Karnataka 560106
7		Mugrody construction Mugrody Enclave, Gandhi Nagar, Kavour Mangalore, Karnataka - 575015
5		NEW Mangalore Port Panambur, Mangalore-575010, D.K. District, Karnataka
2		Agastya group Smruthi, 4th Cross, Siddharuda Nagara, Old Town, Bhadravathi, Karnataka 577301
15		Marian builders 3rd Floor, Ramabhavan Complex, Navabharath Cir, Kodailbail, Mangaluru, Karnataka 575003
3		MM Constructions 2nd Floor, Mothisham Emporium Building, Old, Pumpwell Cir, Kankanady, Mangaluru, Karnataka 575002

15. Details of students undertaken Mini Projects

Year	Name of the Student	Name of the Project	Name of the Guide
1 st	-	-	-
2 nd	-	-	-
3 rd	-	-	-
4 th	-	-	-

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16. Details of students undertaken Major Projects

Year	Name of the Student	Name of the Project	Name of the Guide
1 st	-	-	-
2 nd	-	-	-
3 rd	-	-	-
4 th	RISHIKA	REDUCTION IN THE CONTRIBUTION OF NITROUS OXIDE TO CLIMATE CHANGE BY INCORPORATING TITANIUM DIOXIDE TO CONCRETE PAVEMENT	Mr. Nitesh
	AISHWARYA P		
	ABHINAND K PRAMOD		
	SUDARSHANA BHAT		
	JUSTIN JOHNSON	A REGION SPECIFIC SOLUTIONS TO FLASH FLOOD BY DESIGN OF STORM WATER DRAINS	Dr. Suman K
	ANJALI		
	GREESHMA BANGERA		
	ALEX PHILIP		
	DEEPTHI RAJ	USE OF NET ZERO ENERGY BUILDING (NZEB) TO ACHIEVE SUSTAINABLE GOAL AND A KEY CONTRIBUTION TO REDUCTION IN CLIMATE CHANGE	Mr. Nitesh
	CHETHAN S J		
	SUMEETH SHETTY		
	ALBIN JOSEPH		
ANJALI S RAO	WATER BALANCE APPROACH FOR WATER HARVESTING STRUCTURE USING REMOTE SENSING AND GIS TECHNIQUES,	Mr. Saketh Shetty	
KSHAWARA RAJ			
ATHUL SURESH			
VISHNU RAJ P			

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	DAKSHINA KANNADA, SOUTH INDIA	
PRATHEEK	VERMICOMPOSTING BY VERMIREACTOR (EARTHWORM CULTURE) IN AJIET CAMPUS"	Prof. Vinod T D' Souza
SHREYAS		
SOHAN KUMAR		
VARUN NAIK		
DHANUSH J	AN EXPERIMENTAL INVESTIGATION ON PERVIOUS CONCRETE	Mrs. Babitha B
TANISHKA DEEPAK RAO		
VAISHNAVI D		
VIJAY	APPLICATION OF GEOPOLYMER CONCRETE IN DOME STRUCTURE	Dr. Sangeetha D. M.
PAREEKSHIT C GAONKAR		
SHIVAPRASAD B		
MOHAMMED QAIS		
HARIKRISHNAN B	EXPERIMENTAL INVESTIGATION ON STRUCTURAL BEHAVIOR OF FERROCEMENT MEMBERS	Mr. Nikhil N
AMOGHA CHOWTA		
MOHAMMED UNAIK I		
MUHAMMED A		
MOHAMMED SALAHUDEEN SHA	EXPERIMENTAL INVESTIGATION ON STRUCTURAL BEHAVIOR OF FERROCEMENT SLAB	Mr. Nikhil N
ARUNKUMAR GOUDAR		
DARREN FERNANDES		
AKASH		
ILUNGA SHABAKULU G	DESIGN OF MULTIPURPOSE INDOOR STADIUM USING BIOMIMICRY	Prof. Vinod T D'Souza
C M MOHAMMED YASAR ARAFATH		
AYISHA SHAIMA		
ABHINAV R K	EVALUATION OF WATER QUALITY POLLUTION INDICES FOR HEAVY	Mr. Saketh Shetty
T. V. THEJESH		
SUSHANTH SHETTY		
MOHAMMED SAHAL		

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KIRAN MATHEW GIGI	METAL CONTAMINATION MONITORING - A CASE STUDY ON BAGGUNDI LAKE, COASTAL KARNATAKA	
MANJESHA K G	PERFORMANCE OF COCONUT SHELL ASH AS A PARTIAL REPLACEMENT FOR CEMENT IN CONCRETE	Mrs. Deeksha Anand
AHISHEK FRANCIS		
AKSHAY KUMAR SHETTY		
KARTHIK MOHANAN		
PRAGATHI P	TO ANALYZE STRENGTH CHARACTERISTIC OF M20 GRADE CONCRETE USING M SAND AND FLY ASH AS ADMIXTURE	Mrs. Pooja D
MANJUNATHA		
SAGAR		
AJIL RAJEEVAN A		

17. Details of Industry Visits Organized for Students

Sl No.	Date	Company Details	No of students
1	12-11-2022 to 14-11-2022	Industrial Tour to Munnar, Idukki and Kochi Madupetti Dam, Idukki Dam, St. George Forane Church	36
2	01-12-2022	IRC Concrete Mix India Pvt ltd, Mangalore	25
3	02-12-2022	Nirmihi Kendra Surathkal Mangalore	22

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

1. Beach cleaning drive
2. Packaging food items

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3. To skill the rural population helping local school to achieve good result and enhance their role in higher education.
4. Workshop conduction for school students regarding fun and easy way to learn the academic subjects
5. Visit to R O Water treatment plant

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	9	Hydraulics and water resource Engineering	-
2	Pr. Vinod T D'Souza	Associate Professor	M. Tech	26	Geotechnical Engineering	-
3	Prof. Amarnath Shetty	Professor	Phd	19	Environmental Engineering	1
4	Dr. Sangeetha D.M	Associate Professor	Phd	14	Structural Engineering	01 (Co Guide)
5	Mrs. Deeksha Anand	Assistant Professor	M. Tech	10	Construction Technology	-
6	Mr. Nikhil N	Assistant Professor	M. Tech	10	Structural Engineering	-
7	Mr. Saketh Shetty	Assistant Professor	M. Tech	14	water resource Engineering	-
8	Mr. Nitesh	Assistant Professor	M. Tech	7	Environmental Engineering	-
9	Ms. Babitha B	Assistant Professor	M. Tech	3	Structural Engineering	-
10	Ms. Pooja D	Assistant Professor	M. Tech	3	Construction Technology	-

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

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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	Historical water body changes using spation temporal Indices- a case study of Dakshina Kannada	Saketh T. Shetty, Abhishek Kushwaha, Amba Shetty	Materials Today Proceedings ISBN: 2214-7853 Volume 80, Part 2 , 2023, Pages 1488-1494	Scopus
2	Influence of Treated Coir Fiber on Durability Properties of Black Cotton Soil	Sangeetha D M, Sridhar R, Naveen Kumar D T, Guruprasad H C	Materials Today Proceedings ISBN: 2214-7853 Volume 80, Part 2 , 2023, Pages 1611-1616	Scopus
3	Sesmic Performance And Retrofit For Yuvaraja's College: The Case Study	Dr Amarnath Shetty, Manu Vijay, Naveen Kumar S M, Ms Namitha A P, Dr Shaik Kabeer Ahmed,	Tuijin Jishu/Journal of Propulsion Technology, Vol. 44 No. 5 (2023)	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
1	Modern Materials for Engineering and research	Dr. Sangeetha D M	1st international conference on Modern Materials for Engineering and research, ISSN: 978-3-0357-1758-7	Trans Tech Publications

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2	RASM-2022	Dr. Sangeetha D M	Second Global Conference on Recent Advances in Sustainable Materials 2022, Materials Today Proceedings, Vol. 80, Part 2	Materials Today Proceedings
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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
1	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
1	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
	APPLICATION OF GEOPOLYMER CONCRETE IN DOME STRUCTURE	Dr. SANGEETHA D. M Dr. RITHIN KUMAR N B	2022-2023	5000	1.5 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)
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1	Title of the invention : Image Processing based Expert System for Bill of Materials Calculations for Civil Structures	Indian Patent	202331000501 A	Published
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28. Student Mentoring (mentor-wise list with mentee):

4th year student Counsellor List-2022-2023

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

3rd year student Counsellor List-2022-2023

Sl. No.	Name of the Mentor	No. of Mentees
1	Suman	14
2	Amarnath	16

2nd year counselor List 2022-2023

Sl. No.	Name of the Mentor	No. of Mentees
1	Nitesh	14
2	Nikhil	15

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

Sl. No	Name of the Convener/Cordinator	Title of the Event	Details of the Resource Person(s)	Duration with dates	No. of participants	Outcome
1	Prof. Vinod T D'Souza	3 DAYS WORKSHOP ON REVIT ARCHITECTURE	Ms. Jahnvi Proprietor, DIGI CADD Mangalore	11 th , 12 th , 13 th August 2022 24 Hours	26	Participants will gain a foundational understanding of Revit, including its purpose, key components, and how it integrates



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						<p>within software architecture.</p> <p>Exploring Rivet's Role in Modern Web Development Attendees will learn how Rivet facilitates consistency and usability in web applications, focusing on how it aligns with design systems and enhances user experience.</p>
2	<p>Prof. Vinod T D'Souza Ms. Deeksha Anand</p>	<p>TECHNICAL TALK ON CORROSION OF REINFORCED CONCRETE"</p>	<p>Dr. Poornachandra Pandit</p> <p>Assistant Professor Senior Scale</p> <p>Department of Civil Engineering</p> <p>MIT, Manipal</p>	<p>29-9-2022</p> <p>2 Hours</p>	65	<p>Participants will gain a comprehensive understanding of how and why corrosion occurs in reinforced concrete, including the chemical and environmental factors involved.</p> <p>Identifying Signs of Corrosion in Concrete Structures:</p> <p>Attendees will learn how to identify early signs of corrosion in reinforced concrete structures,</p>

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						including visual indicators and structural symptoms.
3	Prof. Vinod T D'Souza Ms. Deeksha Anand	TECHNICAL TALK ON NEW AGE BUILDING BLOCKS	ER. ANIRUDH RAO Managing Director Projectile Infra Pvt Ltd	29-9-2022 2 Hours	65	Provide large number of sustainable, well designed building in a short period of time. Understand how one can overcome the skills shortage in the construction industry through factory production.
4	Dr. Suman Kundapura MS. Deeksha Anand Ms. Trapthi Shetty	AJIET -RSHU- SYMPOSIUM - 2022	DEPARTME NT ACTIVITY	30-9-2022 4 hours	20	Take up UG projects on real world problems and include research method, design of experiments, as per expert advice from RSHU. Confidently defend their work to the outside world with the sustainable Engineering solutions.

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5	Mrs. Deeksha Anand Mr. Nikhil N	Workshop on NEP-2020	Dr. Suman Kundapura Associate Professor Department of Civil Engineering	12-12-2022 3 Hours	26	To understand the existing problems in the higher education institutions To understand the National education reforms done in the higher education institutions
6	Mrs. Deeksha Anand	Talk on Process of Innovation development Technology, readiness level, commercialisation of lab technologies and Technology Transfer	Mr. Prajwal V Kumar Founder and CEO, Mangalore Robotronics Pvt Ltd Surathkal	16-12-2022 3 Hours	100	Know recent trends and technology in innovation. Know the various terminology associations with technology Readiness Levels
7	Mr. Saketh Shetty	Talk on Importance of Contracts in construction Sector	Mr. Prakyath Nonda K Sr. Manager-Contracts and legal Dra Infracon Pvt Ltd, Gurgaon	24-12-2022 3 Hours	82	Built their career and help them in developing leadership qualities, and management skills, and learn about the industry working Formulate projects and to take up consultancy

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						services in housing and its allied fields
8	Mr. Vinod T D' Souza	Two Days workshop on Total Station	Mr. Santhosh Shetty Engineer Bhoomi Digi Surveyors	13-3-2023 and 14-3-2023 16 Hours	30	<p>Participants will gain a solid understanding of Total Station equipment, including its components, functions, and the principles behind its operation.</p> <p>Conducting Accurate Surveys with Total Station: Attendees will learn how to set up, calibrate, and use a Total Station for various types of surveys, ensuring precise data collection and measurements.</p> <p>Understanding Coordinate Systems and Data Interpretation: The workshop will cover the fundamentals of coordinate systems and how to interpret and utilize the data collected from Total</p>



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						Station surveys for mapping and construction purposes.
9	Dr. Amarnath Shetty	TECHNICAL TALK ON SUSTAINABLE LIVING FOR A BETTER FUTURE	Mr. Ranjan Bellarpady Coordinator, Education, Youth and Sustainability programmes, Ramakrishna Mission Mangalore	25 th April 2023 3 Hours	75	Define sustainability and identify major sustainability challenges. Understanding of the carrying capacity of ecosystems as related to providing for human needs. 3. Apply concepts of sustainable development to address sustainability challenges in a global context.
10	Dr. Amarnath Shetty	Technical talk on current environmental issues to provide sustainable solutions to the community	Dr. Ravi D R Environmental officer Karnataka state pollution control board bangalore	12 th May 2023 3 Hours	150	Live an environmental conscious lifestyle Execute a mindful and deliberate utilization lifestyle rather than a mindless and destructive consumption life style

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11	Dr. Amarnath Shetty	Expert talk on TIME TO EXPLORE SUSTAINABLE CONSTRUCTION WITH RENOWNED ARCHITECT	Mr. Nirenjain Architect	17-05-2023 3 Hours	74	Bring alive the living spaces at workplace and homes. Execute all the projects without hampering the ecosystem.
12	Mr. Saketh Shetty	One day workshop on drone application	Mr. Anuj Mascharenhas Director Brahmur Technologies PVT LTD, Mangalore	28-6-2023	104	Understand field application drone surveying Understand the preparation of maps using drone data

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	AJIET Symposium-2022
2	Heramba consultants	Internship/Job	Nil
3	Brahmur Technologies pvt. ltd	Internship/Job	Workshop on drone application on 28-6-2023
4	Marian infrastructure pvt. ltd	Internship/Job	Internship done

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5	Vishwas Adarsh Construction India	Internship/Job	Internship taken
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31. Details of Consultancy Work in the department: Nil

32. SWOT Analysis

A. Strength:

- (i) Student strength was good for the sanctioned intake in the final year
- (ii) Faculty strength and qualification was good

B. Weaknesses:

- (i) Number of students who successfully graduated was less
- (ii) Number of students who placed on campus was less

C. Opportunities:

- (i) Internship opportunities were very good

D. Threats:

- (i) The final year batch was corona affected batch hence the performance index and attendance was consistently low

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



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Student Feedback/ Faculty Feedback/ Program Feedback Yes No

Appraisal Yes No

Whether Innovative Teaching Methods Included Yes No

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

Dr. Suman Kundapura
Suman

Name and Signature of the HOD

H.O.D.-Civil Engineering

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Observations of the Academic Audit Team:

1. Student have to opt for higher studies and write GATE
2. Student project should be project based.

Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr. Rajesh Rai	Chairman	AJIET	<i>[Signature]</i>
2	Mr. Chanchal Antony	External Dept Member (CSE)	AJIET	<i>[Signature]</i>
3	Mr. Anil B.V	External College Member (CSE)	KVGEE	<i>[Signature]</i>

[Signature]
IQAC COORDINATOR

[Signature]
PRINCIPAL
Principal
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REPORT ON THE ACADEMIC AUDIT (Academic Year -19-08- 2022 to 31-08- 2023)

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: 60**

Sl.NO:	Name of Program	Sanctioned Intake	Number of Students Admitted
1.	E&C Engineering	60 + 3 (SNQ)	62

5. **Overall Demand Ratio:** 62 / 63

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

Program	Female	Male	Total
E&C Engineering	20	42	62

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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	62	0	62	13	29	6	47	15	75.8	68.53
2	62	0	62	19	25	12	54	08	87.1	76.29
3	66	0	66	7	24	16	49	17	74.24	50.37
4	66	0	66	31	13	7	53	13	80.3	86.36
5	41	0	41	8	7	1	19	22	46.34	45.12
6	40	0	40	12	11	4	27	13	67.5	72.5
7	62	0	62	20	27	6	53	9	85.48	69
8	62	1	61	53	2	0	55	6	91.80	89.34

8. Number of classrooms and Laboratories with ICT facilities:

3 classrooms + 1 tutorial room

3 software lab + 3 hardware lab

9. Total number of computers available for students:

Sl.No	Room No	Lab Name	Quantity
1	A224	Software Laboratory 1	36
2.	A223	Software Laboratory 2	32
3	A222	Software Laboratory 3	31
4	A208	Hardware Laboratory 1	3
Total			102

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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 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated
					1	1	5	3	5		11

CULTURAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated
				1	1		8				3

SPORTS											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated
							12				

12. Details of Student Publications in Conferences/Journals

Title of the paper	Name of the author(s)	Details of the Publication
Design and analysis of Microstrip patch antenna	Pradeep Kumar Akshith N Shetty Shashwath Shettigar Abhinav J P	May 2023 ICRTEC Publisher: IEEE

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Mangaluru - 575 006



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13. Details of Students completed Certification Programs

Year	No of Students	Name of the Course and Course Provider
1 st		
2 nd	2	Practical exposure on techlogy of Data science, machine Learning, Robotics, Cyber Security by Quantum Learnings
3 rd	1.	Practical task in Crack- leaked password database by Forage
4 th	3	Python by Kaggle
	2	Python fundamentals for beginners by Great Learning.
	7	Masterclass on ESD and IOT by Pantech solutions.
	1	Introduction to cloud computing by Skillup
	1	Java certification by Skillup
	2	Practical exposure on Python with Django by Quantum learnings
	1	Cloud foundations by great Learning
	1	Java programming by Great learning
	1	Arduino Platform & C programming by UCI
	1	Data science Foundations by Great Learning

14. Details of Student Undergone Internships

Year	No of Students	Details of the Company
2 nd	13	Zilliot Technologies
	1	Kakunje Software
	15	Comedkares
	31	DLithe AIC Nitte
	3	Fininnox Pvt Ltd
	3	NITK Surathkal
4 th	38	10 Seconds
	6	Keltron Component Complex Ltd.
	10	Tech Graylogix
	8	Kakunje Software

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15. Details of students undertaken Mini Projects

VI Sem

SL No	Batch	USN	Student Name	Name of the Project	Guide Name
1	B-1	4JK20EC026	Mohan Singh Khati	Low Power High Performance Arithmetic Circuits	Mrs. Thrapthi Shetty
2		4JK20EC033	Sandesh		
3		4JK20EC013	Deeptha Suresh A		
4		4JK20EC030	RasimMusthafa		
5	B-2	4JK20EC018	Harshith	Design Of Analog Comparator	Dr. Kiran Kumar VG
6		4JK20EC029	Prashanth S M		
7		4JK20EC006	Amal Dominic		
8	B-3	4JK20EC038	Swasthik Kamath	Detection Of Doppler and Range By Short Time Fourier Transform Of Ipix Radar Database	Mr. Manjukiran B
9		4JK20EC019	Hemanth Kumar H N		
10		4JK20EC003	Adithya G V		
11		4JK20EC001	Abhijeeth C		
12	B-4	4JK20EC024	Manish Shetty	Solar Powered Water Trash Collector	Prof. Prakash K Shetty
13		4JK20EC002	Abhinethri C T		
14		4JK20EC011	Bhavish B Malli		
15		4JK21EC400	Gopalkrishna		
16	B-5	4JK20EC040	Sanjana	Low-Cost Probabilistic Data Association Filter	Dr. Gnane Swarnadh Satapathi
17		4JK20EC028	Navya B R		
18		4JK20EC020	Hitaishini C U		
19	B-6	4JK20EC034	Seema J Rai	High Notch Microstrip Antenna Array at Ka Band	Dr. Ranjan Kumar Mahapatra
20		4JK20EC010	Athmiya Raj A G		
21		4JK20EC017	Hardik		
22		4JK20EC015	Durgesh		
23	B-7	4JK20EC039	Valarie NeeshmaSequeira	Automated Fertigation System	Mr. Suhandas / Mr. Ganesh UG
24		4JK20EC041	Prajval		
25		4JK20EC032	Sahil Monna Pinto		
26		4JK20EC031	Roshan P S		
27	B-8	4JK20EC037	Spoorthi	Implementing Fourier Transform Using Shor's Algorithm Ibm Quantum Computers	Mrs. Sahana K Adayanthaya
28		4JK20EC036	Soundarya B S		
29		4JK20EC014	Dhanush V Kotian		

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30	B-9	4JK20EC016	Geetha D P	Smart Baby Monitoring System Using Arduino Uno and Node Mcu	Mrs. Pratheeksha Rai.
31		4JK20EC027	Muhammed Rabeeh Rahman K V		
32		4JK20EC009	AswinShaji		
33	B-10	4JK20EC008	Ankitha	Designing A Small and Portable Microstrip Patch Antenna For 2.4ghz To 2.5ghz Frequency Range	Mrs. Divya A
34		4JK20EC012	Chethan		
35		4JK21EC402	Saiprasad B S		
36	B-11	4JK20EC021	Jhnanika N M	Non-Destructive Approach to Detect Pesticides In Fruits And Vegetables Using Iot Technology	Mrs. Deepashree A
37		4JK20EC007	AmithMelricVeigas		
38		4JK20EC004	Akash		
39	B-12	4JK21EC401	Manikya	Low Cost Rdt Dengue Detector	Dr. Pusparani M K
40		4JK20EC025	Manjusha M		
41		4JK20EC023	KeerthanTilak Mendon		

16. Details of students undertaken Major Projects

SL No	Batch	USN	Student Name	Project Title	Guide Name
1	B-1	4JK19EC003	ABIN BABU	Bilirubinometer	Dr. Shantharama Rai C
2		4JK19EC029	MOKSHA		
3		4JK19EC059	SWAROOP		
4		4JK19EC062	TRUPTHI M		
5	B-2	4JK19EC004	ADITHYA SUBRAHMANYA SHARMA P	LOW-COST SMART SPIROMETER	DR. GNANE SWARNADH SATAPATHI
6		4JK19EC014	ASHLESH S		
7		4JK19EC028	MIDHUN MOHANAN		
8		4JK19EC043	SANIHA		
9	B-3	4JK19EC007	AKSHITH N SHETTY	DESIGN AND ANALYSIS OF THE MICROSTRIP PATCH ANTENNA WITHIN 2.4 GHz TO 3 GHz	DR. RANJAN KUMAR MAHAPATRA
10		4JK19EC049	SHASHWATH		
11		4JK19EC032	PRADEEP KUMAR		
12		4JK19EC002	ABHINAV JP		

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13		4JK19EC024	KRITHI B SHETTY		
14		4JK19EC051	SHRAJAN N SHETTY	THERMAL SENSING QUADCOPTER	Mrs.THRAPTHI SHETTY
15	B-4	4JK19EC055	SONAL		
16		4JK19EC031	P DHANASEKAR	Design and Implementation of Cryptographic Algorithm on FPGA for IOT	DR. Kiran Kumar V G
17		4JK19EC037	RAANIYA MARIA RAZAK		
18	B-5	4JK19EC030	NOYAL JOY		
19		4JK19EC011	ANUSHA K	High Surveillance Detector at Bio-hazard Area	Ms. Pushparani M K
20		4JK19EC005	AISHWARYA		
21		4JK19EC019	GOVINDAREDDYG ARI SRIKALA		
22	B-6	4JK19EC027	MEGHRAJ MOHAN TALEKAR		
23		4JK19EC054	SHREYA S		
24		4JK19EC053	SHREYA S	Non-Invasive Blood Glucose Level Detection	Mr Manjukiran B
25		4JK19EC056	SRUTHI PRADEEP		
26	B-7	4JK19EC038	RAKSHITH NAYAK		
27		4JK19EC034	PRAJWAL ALVA		
28		4JK19EC050	SHIPAL KARKERA	Portable Cold Storage	Guide- Dr. Shantharama Rai C Co-Guide- Mrs.Thrapthi Shetty
29		4JK19EC044	SAPTHAMI		
30	B-8	4JK19EC060	TASMIYA ZULEKHA		
31		4JK19EC026	M POOJA	Video Laryngoscope	Mrs. Pratheksha Rai
32		4JK19EC046	SHARAN S RAIKAR		
33		4JK19EC010	ANIRUDDH M BHAT		
34	B-9	4JK19EC045	SEJAL A		
35		4JK19EC052	SHRAVYASHREE K A SHETTY	Women Safety	Mrs. Sahana K Adyanthaya
36		4JK19EC016	ASWIN RAJ N		
37		4JK19EC058	SUJITH		
38	B-10	4JK19EC017	AYISHA SAHANIYA	Greenhouse Gas Detecting Quadcopter	Mrs. Divya A
39		4JK19EC001	AADON TITUS		
40		4JK19EC012	APOORVA G BHAT		
41		4JK19EC036	PRITHVIRAJ SHETTY		
42	B-11	4JK19EC039	RAKSHITH S ANCHAN		
43		4JK19EC022	JATIN	IOT BASED PREPAID SMART METERING SYSTEM	Mr. Ganesh U G
44		4JK19EC035	PRASHANTH		
45	B-12	4JK19EC041	SANA ANJUM		

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46		4JK19EC048	SHASHANK J MOOLYA		
47		4JK19EC025	LEKHA PALLI		
48		4JK19EC033	PRAJVAL		
49		4JK19EC040	RAMYA M R		
50	B-13	4JK19EC057	SUDEEP A S	AJSAT	Mr. Suhandas
51		4JK19EC023	Kangundhi Rajesh Nithin	LOW-COST WEARABLE DEVICE TO PREVENT MYOPIA	Mr. Prakash K Shetty
52		4JK19EC013	Apoorva Mithra		
53		4JK19EC020	Harshitha		
54	B-14	4JK19EC042	Sana Katija		
55		4JK19EC006	Akshay J Rai	Audio Assist for Blind	Mrs. Deepashree AP
56		4JK19EC008	Aman Sasidharan KP		
57		4JK19EC009	Amrita Sinchana		
58	B-15	4JK19EC063	Yashas Shetty		
59		4jk19ec015	Ashwin M R	Implementation and Performance Analysis of CMOS SRAM cell	Dr. Shantharama Rai.c
60		4jk19ec018	Bilbin Saji		
61		4jk19ec021	Hisham S P		
62	B-16	4jk19ec061	Tharun B S		

17. Details of Industry Visits Organized for Students

SI No.	Date	Company Details	No of students
1	2-11-2022 to	KDHP.Co Pvt Ltd, Madupatty Factory	53

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

Sl.No	Name of the activity	Name of the Scheme	Year of Activity
1	Swachchatha Abhiyan at Berebail, Yeyyadi	NSS	2022-2023
2	Informative Activities at Govt. Primary School, Mullakad	NSS	2022-2023
3	Beach Cleaning activity at Thannerbavi Beach	NSS	2022-2023
4	Introducing new technology to rural population	AICTE -Activity point	2022-2023

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5	Swachch Bharath Abhiyan	AICTE -Activity point	2022-2023
6	Creating awareness about reducing energy consumption	AICTE -Activity point	2022-2023
7	Heritage Walk and crafts corner	SCR	2022-2023
8	Water Conservation	SCR	2022-2023
9	Campaign helping for the easy access of library for students and localities	AICTE -Activity point	2022-2023
10	Promoting local tourism	AICTE -Activity point	2022-2023
11	Contribution to national-level initiative of govt of India	AICTE -Activity point	2022-2023
12	Swachcha Bharath Abhiyan	AICTE -Activity point	2022-2023
13	To skill rural population	AICTE -Activity point	2022-2023
14	Digital awareness in govt. higher primary school	AICTE -Activity point	2022-2023
15	Childcare and Development Program at Anganawadi - Marakada, Kavoor	AICTE -Activity point	2022-2023
16	Spreading public awareness under rural outreach programmes - Better Life Home- Old Age Home Mannagudda	AICTE -Activity point	2022-2023
17	Swacchtha Shramadhana & Awareness Programme at Surathkal Market	AICTE -Activity point	2022-2023

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	46S_BE_0065	Bilirubinometer	Dr. Shantharama Rai C Dr. Kiran Kumar V.G		1.Swaroop 2.Moksha 3.Abin Babu 4.Thrupthi M	5,000/-
2.	46S_BE_0065	Low-Cost Smart Spirometer	Dr. Gnane Swarnadh Satapathi		1.Adithya Subramanya Sharma P	5,000/-

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				Dr.Ranjan Kumar Mahapatra		2.Ashlesh S 3.Saniha	
3.	UNNATI-United Nations Development Program	Low-Cost Smart Spirometer		Dr. Gnane Swarnadh Satapathi Dr.Ranjan Kumar Mahapatra		1.Adithya Subramanya Sharma P 2.Ashlesh S 3.Saniha	1,000,00/-

21.Faculty strength and specialization.

-	Name	Designation	Qualification	Experience	Area of Specialization	No. of Ph.D Guided/ Guiding
1.	Dr. Shantharama Rai C	Principal & Professor	B.E, M. Tech, Ph. D	24yr6m	Control Systems & Power Electronics	8
2.	Dr. Gnane Swarnadh Satapathi	Associate Professor & Head	B. Tech, M. Tech, Ph. D	9yr	Signal Processing	2
3.	Mr. Manjukiran B	Asst. Prof & Dept. Co-ordinator	B.E, M.E	15yr1m	Electronics	-
4.	Prof. Prakash Shetty	Associate Professor	B.E, M. Tech	30yr7m	Biomedical Engineering	-
5.	Dr. Kiran Kumar V.G	Associate Professor	B.E, M. Tech, Ph.D	23yr	VLSI & Cryptography	-
6.	Ms. Thrapthi Shetty	Assistant Professor	B.E, M. Tech	9yr	Microelectronics & Control Systems	-
7.	Ms. Pratheksha Rai N	Assistant Professor	B.E, M. Tech	9yr3m	Digital Electronics	-
8.	Ms. Sahana K Adyanthaya	Assistant Professor	B.E, M. Tech	13yr6m	Digital Electronics & Communication Systems	-

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9.	Ms. Divya A	Assistant Professor	B.E, M. Tech	15yr	Digital Electronics	-
10.	Mr. Ganesh U G	Assistant Professor	B.E, M. Tech	4yr	Control Systems	-
11.	Ms. Pushparani M. K	Assistant Professor	B.E, M. Tech, (Ph.D)	13yr 8m	Signal Processing and VLSI	-
12.	Ms. Deepashree A. P	Assistant Professor	B. Tech, M. Tech	8yr 3m	Digital Electronics	-
13.	Dr. Ranjan Kumar Mahapatra	Associate Professor	B.E, M.Tech, Ph.D.	12 yr	Wireless Sensor Networks	-
14.	Mr. Suhandas	Assistant Professor	B. Tech, M. Tech	12	Digital Electronics and Communication	-

22. No. of Faculties Registered for Ph.D Programs:

NIL


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23. 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.	Design and analysis Microstrip Patch antenna	Dr. Ranjan Kumar Mahapatra, Dr. Gnane Swarnadh Satapathi	IEEE/ May 2023 ICRTEC DOI : 10.1109/ICRTEC 56977.2023.1011 1920	Scopus
2.	Analysis of Modulation using Rayleigh and AWGN channel for wireless sensor nodes in IOT	Dr. Ranjan Kumar Mahapatra, Dr. Gnane Swarnadh Satapathi	IEEE/ May 2023 ICRTEC DOI : 10.1109/ICRTEC 56977.2023.1011 1921	Scopus
3.	Compact wideband Microstrip circular patch antenna for 6G applications	Dr. Ranjan Kumar Mahapatra, Dr. Gnane Swarnadh Satapathi Manjukiran B	Jun 2023 DOI : 10.1109/InCACC T57535.2023.101 141831	Scopus
4.	Enhancement video condensation with video browsing and retrieval for surveillance videos using heuristic-derived deep learning algorithm	Suhandas	May 2023 DOI: 10.3233/IDT-220303	Scopus

24. 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.	Face Mask Detection and alert system using Artificial Intelligence for COVID-19 Patients	Prakash K Shetty	XIX Control Instrumentation and Control Engineering	Springer Singapore

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			Springer 978-981-99-9553-0	
2.	Analysis of Modulation schemes Using Rayleigh and AWGN channel for wireless sensor nodes in Internet of Things	Dr. Ranjan Kumar Mahapatra, Gnane Swarnadh Satapathi	Recent Trends in Electronics and Communication 979-8-3503-9620-1	IEEE
3.	Design and analysis of microstrip patch antenna	Dr. Ranjan Kumar Mahapatra, Gnane Swarnadh Satapathi	Recent Trends in Electronics and Communication 979-8-3503-9620-1	IEEE
4.	Compact wideband microstrip circular patch antenna for 6G application	Dr. Ranjan Kumar Mahapatra, Gnane Swarnadh Satapathi	Advancement in Computation & Computer Technologies 979-8-3503-9649-2	IEEE
5.	Design and Analysis of Microstrip Wideband Filter	Dr. Ranjan Kumar Mahapatra, Gnane Swarnadh Satapathi	Intelligent Technologies 979-8-3503-3861-4	IEEE

25. 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
	NIL			


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26. 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
		NIL	

27. 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 Smart Spirometer	Dr. Gnane Swarnadh Sathapathi	2022-2023	Rs.5000/	1 Year
2.	Bilirubinometer	Dr. Kiran kumar V G, Dr. Shantharama Rai C	2022-2023	Rs.5000/	1 Year
3.	Low cost Spirometer	Dr. Gnane Swarnadh Sathapathi	2022-2023	Rs.1.0 Lakh	1 Year

28. 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	AI Based Hand Hygiene Monitoring	UK Patent	Patent id - 6304212	Granted
2	Assorted Wireless Charging Power Adapter	UK/Design patent	Patent id - 6259175	Granted
3	Compact Server with IOT	Indian/Design Patent	Patent id -125915	Published

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

4th Year student counsellor list

Sl. No.	Name of the Mentor	No. of Mentees
1.	Ms. Pushparani M K	15
2.	Dr. Kiran kumar	15
3.	Ganesh U G	16
4.	Manjukiran B	16

3rd Year student counsellor list

Sl. No.	Name of the Mentor	No. of Mentees
1.	Dr. Ganne Swarnadh Satapathy	14
2.	Dr. Ranjan Kumar Mahapatra	14
3.	Sahana K Adyanthaya	13

2rd Year student counsellor list

Sl. No.	Name of the Mentor	No. of Mentees
1.	Prakash K Shetty	16
2.	Divya A	17
3.	Pratheeksha Rai N	17
4.	Suhandas	16

30. 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.	Deepashree A P Prakash K Shetty Dr. Kiran Kumar	Opportunities in VLSI-Analog & Digital Design	Mr. Vinod John, Vice President, Hardware Engineering, Mirafratechnologies	11:30am - 1:00pm 08-05-2023	43	Identify different steps involved in chip design, Understand

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			Manipal			different job opportunities in VLSI, and the importance of pre silicon verification.
2.	Deepashree A P Prakash K Shetty	Talk on Advances in Communication Network	Mr. Pratheek M Holla, Technical Solutions Engineer, Arista Networks, Australia	2:00pm - 5:00pm 30-12-2022	56	Identifying different networking components, understand different job opportunities in networking and networking in real time application
3.	Mr. Ganesh U G Deepashree A P Thrapthi Shetty	PCB Workshop	G K Bhat, Kakunje Software Pvt. Ltd, Manglore	19-12-2022 to 21-12-2022	24	To understand the design and fabrication of PCB for prototyping, Innovate faster with electronics technology, to implement the PCB design for digital circuits as assignment for the subject 21EC32

31. Details of of Functional MoUs and activity mapping:

NIL


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32. Details of Consultancy Work in the department:

NIL

33. 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.
- Alumni involvement in placement and other academic activities.
- Participation of faculty in National and International professional activities beyond the state.
- Generation of revenue through consultancy

C. Opportunities:

- Organize FDPs / National and International conferences.
- Motivate students to undertake interdisciplinary and projects sponsored by Laxmi Memorial Education Trust and other Agencies.

D. Challenges:

- The department has students coming from varied socio-economic background.
- Placement with higher annual package.
- Attracting top-ranked students to the department.


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- Creating Entrepreneurs

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
Whether Innovative Teaching Methods Included	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

33 Any other information, which is not covered above:


Name and Signature of the HOD
(Dr. Gnane Suresh)


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Observations of the Academic Audit Team:

1. Department has been Industrial Visits and technical outreach programs.
2. Students must also encouraged to get involved in co-curricular & extra curricular activities both within and outside the state.

Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr. Rajesh. Rai	Chairman	AJIET	
2	Dr. Sreejith. B K	Member (int)	AJIET	
3	Mr. Anil B.V	member (ext)	KVGCE, Sullia	

IQAC COORDINATOR

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REPORT ON THE ACADEMIC AUDIT (Academic Year August, 2022 - August, 2023)

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)** :

SL.NO:	Name of Program	Sanctioned Intake	Number of Students Admitted
1	Information Science & Engineering	60	63

5. **Overall Demand Ratio:** 105%

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

Program	Female	Male	Total
Information Science & Engineering	26	37	63

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7. Result Analysis :

Sem - ester	Total No. of Students	Total No. of Absentees	Total No. of Students Appeared	FCD	FC	SC	PASS	FAIL	Pass %	PI %
1	62	NIL	62	33	19	5	61	01	98.39	0.81
2	61	NIL	61	43	12	1	56	05	91.8	0.86
3	64	01	63	17	20	9	48	15	76.19	0.60
4	64	NIL	64	27	20	8	55	09	85.94	0.71
5	55	01	54	06	20	11	45	09	83.33	0.50
6	53	NIL	53	12	26	10	51	02	96.23	0.70
7	62	NIL	62	44	11	1	58	04	93.55	0.86
8	62	01	61	59	0	2	61	00	100	0.98

8. Number of classrooms and Laboratories with ICT facilities: 3+4 = 7

9. Total number of computers available for students : 125

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 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated
								06			

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12. Details of Student Publications in Conferences/Journals

Sl. No.	Title of the paper	Name of the author(s)	Details of the Publication
1	ORPHANHUB:Orphanage learn Earn And Donation Based Application	Nirmala, Sharan, Sinchana	International Scientific Journal of Engineering and Management, ISSN: 2583-6129, Volume 2, May 2023
2	AI As A New Psychotherapist-To Learn And Fight Mental Illness	Prathvin, Ramkrishna, Shreyas	International Scientific Journal of Engineering and Management, ISSN: 2583-6129, Volume 2, May 2023
3	Textify-Lip Reading To Text	Deeksha, Shama, Rakshitha	International Scientific Journal of Engineering and Management, ISSN: 2583-6129, Volume 2, May 2023
4	Cattle Disease Diagnosis Using Deep Learning	Drethi Shetty, Megha, Prajna	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023
5	Emotify-Emotion Based Music Player	Manvith, Zahid	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023
6	Self Driving Vehicle Controller Assistant	Ahamed, Nandu	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023
7	Method For Generating Descriptions For Clothing Images To Support Intelligent Systems	Sharmila,Ashwija	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023
8	Forensic Desk-Face Sketch And Recognition	Prakyath, Abhijyna	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023
9	Transparent Charity Application Using Blockchain	Bhagyashree, Kishan	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023

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10	Make Purchase Easy-A Purchase Recommendation Android Application	Akhil, Prajwal	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023
11	Public Work Department Fund Allocation And Tender Tracking System Using Blockchain	Devakrishna, Joshwa	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023

13. Details of Students completed Certification Programs

Year	No of Students	Name of the Course Provider
3 rd	41	Great Learning
	2	Google Workshop
	1	Microsoft Learning Studio
	3	Dev Town
	3	Discord
	2	CISCO
	1	HackerRank
	1	CourseEra

14. Details of Student Undergone Internships

Year	No of Students	Details of the Company
4 th	2	Accolade Solution and Klientship Technology
	4	AgileTec
	9	Blueline computers
	3	Codelab systems
	2	Cognitive solution
	8	Kakunje Software Private Limited
	15	Klientship Technologies Pvt.Ltd
	4	Thaniya Technologies
	2	Vivartna Technologies, Bangalore
	11	Zephyr technologies and solutions Pvt.Ltd.

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15. Details of students undertaken Mini Projects

Year	Subject	Name of the Student	Name of the Project
3 rd Yr	DBMS	Prasthuth Hegde	Construction Management System
		Prathik S	
		A Navya	Railway Management System
		Ananya Adappa	
		Monisha	Road Quality Monitoring System
		Nischith Kulal	
		Sanjana V S	Electricity Bill Management System
		Shreya Y	
		Mohammed Moushoof	Covid Bed Slot Booking
		Melroy Peter Tellis	
		Harsharaj B	Handmade Product Management System
		Kiran Kumar V	
		M Tushara	Student Management System
		Preksha S Naik	
		Mayoori P	Blood Bank Management System
		Kavya	
		Hrithik N R	Employee Leave Management System
		Abhiram K R	
		Krithik Kumar	
		Nithasha	Traffic Police Management System
		Pratheeksha R	
		Aksha	Airline Database
		Shama	
		Adithya Shetty	Prison Management System
		Abhishck	
		Rachana Rao	Online Art Gallery Management System
		Samantha Patric Pinto	
		Ateef Hussain Sheik	Online Voting System
		Jagannath S Urva	
		Deeksha K	Gym Management System
		Greeshma C Poojary	
		Kiran Shetty	Mobile Store Management System
		Manasa Shivanand Patnakar	
		Shreesha Rao	Courier Management System
Swasthik			
Roopesh			
Chaithanya	Warehouse Management System		
Shifali Shetty			
Shravya			

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	Vaishnavi Mohan Naik	Payroll Management System
	Shifali Jagannath Devadiga	
	Anushree	Bus Management System
	Arpitha	
	Ashwitha	Cake Studio
	Adhya Shetty P	
	Disha Hebbar	Clinic Management System
	S Vaishnavi Kotian	
	Ashik Raj	E-Commerce
	Adithya P	
	Shadeed Shukoor	
	Prithviraj	Grocery Management System
	Ajay Kumar Sonkar	
	Vignesh S Nayak	Trip Mate
	Yashas M Bhandary	

Year	Subject	Name Of The Student	Name Of The Project
3 rd Year	MAD	Hrithick N R	Notes Application
		Krithik Kumar	
		Harshraj B	News Reader Android Application
		Abhiram K R	
		Arpitha	Weather Application
		Ashik Raj E	
		Chaithanya	Blood-Buddy
		Disha Hebbar	
		S Vaishnavi Kotian	Hungerhult
		Shreya Y	
		Vaishnavi Nayak	Image Picker Library
		Shifali Devadiga	
		Mayoori	Job Hunt
		Nischith Kulal	
		Shifali Shetty	Simple Calender Applications
		Shravya	
		Sanjana V S	E-Banking Management
		Swasthik	
		Anushree	Medisafe Pill Remainder
		Adithya P	
Vignesh Nayak	Comichub		
Yahas M Bhandary			
Ashwitha	Quizz App		
Adhya Shetty P			
Prithviraj	Unit Convertor Application		

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	Manasa S Patankar	
	Melroy Peter Tellis	Road Fuel Go
	Mohammad Moushoof	
	Aksha	First Aid Remedies
	Shama	
	A Navya	Teacher's Assistant Attendance App
	Ananya S Adappa	
	Adhithya Shetty	Expence Tracker
	Abhishek	
	Kavya	Music Player Application
	Thushara	
	Rachana Rao	Women Safety Application
	Samantha Pinto	
	Nithasha	Covid-19 Info Desk
	Pratheeksha R	
	Deeksha K	Yoga App
	Greeshma C Poojary	
	Ateef Sheikh	Ai Chatbot Android Application
	Ajay Kumar	
	Kiran Kumar V	My Furniture App
	Kiran Shetty	
	Roopesh	Post Office Info Application
	Shreeshra Rao S	
	Prasthuth Hegde	Car Sync - Car Pooling App
	Prathik S	
	Jagannath S Urva	Age Calculator App
	Monisha	
	Preksha S Naik	List Manager App

Year	Subject	Name Of The Student	Name Of The Project
3 rd Year	FS	Pratheeksha R	Hospital Management System
		Nithasha	
		Rachana Rao	Real Estate Management
		Monisha	
		Hrithik N R	Voting Management System
		Abhiram K R	
		Greeshma C Poojary	Pharmacy Management System
		Deeksha K	
		Shama	Leave Management System
		Aksha	
		Shifali Shetty	Railway Reservation Management
		Shravya	

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	Vaishnavi Naik	Student Management System
	Shifali Devadiga	
	Sanjana V S	Book Store Management
	Swasthik	
	Shreya	Hotel Reservation System
	S Vaishnavi Kotian	
	Roopesh	Car Showroom Management System
	Shreesha Rao S	
	Chaitanya	Car Parking Management System
	Disha Hebbar	
	Preksha S Naik	Music Library Management System
	Samantha Pinto	
	Tushara	Library Management System
	Kavya	
	Vignesh Nayak	Supermarket Billing System
	Yashas M Bhandary	
	Prasthuth Hegde	Fees Management System
	Prathik S	
	A Navya	Blood Bank Management System
	Ananya Adappa	
	Harsharaj B	College Finder
	Kirankumar V	
	Ashik Raj E	Fir Management System
	Arpitha	
	Mayoori	Placement Management System
	Nischith Kulal	
	Adhya Shetty	Text To Braille And Braille To Text Converter
	Ashwitha	
	Anushree	Airline Reservation System
	Adithya P	
	Prithiviraj	Club Management System
	Ajay Kumar Sonkar	
	Melroy Peter Tellis	Police Substation System
	Mohammed Moushoof	
	Krithik Shetty	Movie Management System
	Manasa Shivanand Patnakar	
	Jagannath S Urva	Sugar,Delight Solution
	Ateef Hussain	
	Kiran Shetty	Toll Bill Generator
	Shadeed Shukoor	
	Adithya Shetty	Auto Mobile Complaint Management System
	Abishek	

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16. Details of students undertaken Major Projects

Year	Name of the Student	Name of the Project	Name of the Guide
4th Year	Devakrishnan. A	State Government Fund Allocation And Tracking System Over Block Chain	Mrs. Divya
	Erica V Fernandes		
	Shamitha		
	Joshwa V Fernandes		
4th Year	Prajwal S Bhat	Purchase Notifier And Recommendation Using Machine Learning	Mr. Rakesh M R
	Akhil		
	Thejas J Puthran		
	Yathisha		
4th Year	Kishan Kumar	Transparent Charity Application Using Block Chain	Mr. Prabhakara B K
	Sanjay Umesh Bangera		
	Shreyas		
	Bhagyashree		
4th Year	Sanjana Arun Prabhas	Phishing Website Detection	Mrs. Navya Rai
	Akanksha Shailesh Gatty		
	Poorvi M Rao		
	R Devika		
4th Year	S Sharmila Shetty	Method For Generating Description For Clothing Images To Support Intelligent System	Mrs. Shivapuram Jayasri
	Deeksha		
	Ashwija Shetty		
	Karthik D Kille		
4th Year	Athmi B S	Toxic Content Classification Using Machine Learning	Dr. Naganna Chetty
	Shreya		
	Ashika Ruth Saldana		
	Harshitha H S		
4th Year	Prakhyath	Forensic Face Sketch And Recognition	Dr. Suresha D
	Abhijna P Naik		
	Sudarshan Udupa		
	Shraddha H S		
4th Year	Salman Farish	A Parallelized Self-Driving Vehicle Controller Using Unsupervised Machine Learning	Dr. Suresha D
	Ahamed		
	Nandu R		
	Saud Hussain		
4th Year	Anish Suvarna	Wander Hub – A Travel Recommendation And Chat App	Mr. John Prakash Veigas
	Anush Kumar		
	Arpitha Salian		
	Sherene Rahel Maben		
4th Year	Mohammed Zaahid Umer	Blockchain Based Music Player	Mrs. Sharanya Ps
	Ahamed		
	Manvith Shetty		
	Nihal Kundar		
4th Year	Drethi Shetty	Cattle Diseases Diagnosis	Mr. Rakesh M R

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Prajna S Puthran	Using Deep Learning	
Megha		
Rakshitha		
Deeksha Shetty K	Lip Reading To Text Using Artificial Intelligence	Mrs. Sharanya Ps
Rakshitha		
Swathi		
Kshama D		
Ram Krishna Marndi	Revolutionize Fighting Mental Using Artificial Intelligence	Mr. John Prakash Veigas
Prathvin		
Rahul M K		
Shreyas M		
Sharan S Shetty	Orphan Hub-Orphanage Learn, Earn And Donation Based App	Mrs. Sahaya Shamini R
Sinchana B R		
Sukhanya N Shet		
Nirmala Halakurki		
Basavaraj U Kurubara	Cervical Cancer Prediction System	Dr. Naganna Chetty
Ramya R Kini		
Nithya H V		
Neeraj K	Employee Surveillance Using Face Detection	Mr. Prabhakara B K
Joel Shaji		

17. Details of Industry Visits Organized for Students

Sl No.	Date	Company Details	No of students
1	18.11.2022	GLOW TOUCH, Silver Spirit Tech Park, Hebbal, Mysore	32

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

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. Suresha D	Professor & HOD	Ph.D	21 Yrs	Image and Video Processing, Computer Vision, Machine	5

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					Learning and Deep Learning	
2	Dr.Naganna Chetty	Professor	Ph.D		Information Systems Social media Digital content Data Mining	-
3	Prabhakara B.K	Associate Professor	M.Tech	24 Yrs	Networking, Data Science, Cloud Computing, Machine Learning	-
4	John Prakash Veigas	Associate Professor	M.Tech	16 Yrs	Image Processing, Computer Vision, Machine Learning and Deep Learning	-
5	Rakesh M. R	Assistant Professor	M.Tech	6 Yrs	Electronics & communication s	-
6	Sharanya P. S	Assistant Professor	M.Tech	8 Yrs	Networking, Data Science, Data Analytics, Machine Learning	-
7	Navya Rai	Assistant Professor	M.Tech	5.5 Yrs	Embedded system, communication, networking	-
8	Divya	Assistant Professor	M.Tech	10 Yrs	Data Science, Image and Video Processing, Deep Learning, Machine Learning	-
9	Sivapuram Jayasri	Assistant Professor	M.Tech	4 Yrs	Programming Language, Networking	-
10	Sahaya Shamini	Assistant Professor	M.Tech	3 Yrs	Networking , Image Processing ,	-



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					Artificial intelligence and Machine Learning	
11	Archana Priyadarshini	Assistant Professor	M.Tech	9 Yrs	Machine Learning, Artificial Intelligence, Deep Learning, Cryptography	-
12	Arpitha G	Assistant Professor	M.Tech	4 Yrs	Machine Learning, Artificial Intelligence, Operating systems, Graphics, Big Data	-

21. No. of Faculties Registered for Ph.D Programs: 04

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	Hybrid Meta Heuristic Technique Load Balancing For Cloud Based Virtual Machines	Dr. Prabakara B K	International Journal of Intelligent Systems and Applications in Engineering, ISSN: 2147-6799, Volume: 11, 2023	Scopus (Q4)
2	ORPHANHUB: Orphanage learn Earn And Donation Based Application	Prof. Sahaya Shamini	International Scientific Journal of Engineering and Management, ISSN: 2583-6129, Volume 2, May 2023	UGC Care



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3	AI As A New Psychotherapist-To Learn And Fight Mental Illness	Dr. John Prakash Veigas	International Scientific Journal of Engineering and Management, ISSN: 2583-6129, Volume 2, May 2023	UGC Care
4	Textify-Lip Reading To Text	Prof. Sharanya B.S.	International Scientific Journal of Engineering and Management, ISSN: 2583-6129, Volume 2, May 2023	UGC Care
5	Cattle Disease Diagnosis Using Deep Learning	Prof. Rakesh M.R.	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023	UGC Care
6	Emotify-Emotion Based Music Player	Prof. Sharanya B.S.	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023	UGC Care
7	Self Driving Vehicle Controller Assistant	Dr. Suresha D.	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023	UGC Care
8	Method For Generating Descriptions For Clothing Images To Support Intelligent Systems	Prof. Sivapuram Jayasri	International Scientific Journal of Engineering and Management ISSN:	UGC Care

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			2583-6129, Volume 2, May 2023	
9	Forensic Desk-Face Sketch And Recognition	Dr.Suresha D.	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023	UGC Care
10	Transparent Charity Application Using Blockchain	Dr. Prabakara B K	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023	UGC Care
11	Make Purchase Easy-A Purchase Recommendation Android Application	Prof. Rakesh M. R	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023	UGC Care
12	Public Work Department Fund Allocation And Tender Tracking System Using Blockchain	Prof. Divya	International Scientific Journal of Engineering and Management ISSN: 2583-6129, Volume 2, May 2023	UGC Care
13	Gammadion Based Local Binary Pattern With Shearlet Coefficients For Palmprint Recognition	Dr. John prakash Veigas	International Journal of Intelligent Systems and Applications in Engineering ISSN: 2147- 6799, Volume 11, 2023	Scopus(Q4)

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14	Deep Learning Approach For Touchless Palmprint Recognition Based On Alexnet And Fuzzy Support Vector Machine	Dr. John prakash Veigas	International Journal of Electrical and Computer Engineering Systems, ISSN: 1847-6996, Volume 13, 2022	Scopus(Q3)
15	Offline Signature Confirmation Based On Cluster Representation Of Geometrical And Statistical Features	Dr. Suresha D	The International Arab Journal of Information Technology ISSN: 2309-4524, Volume 19, July 2022	Scopus(Q2)
16	Technology Assisted Social Reforms And Online Hate Content	Dr. Naganna chetty	Brazilian Archives Of Biology And Technology, ISSN: 1678-4324, Volume 65, 2022	Scopus(Q2)
17	Air Quality Predictive Analysis Using Machine Learning	Prof. Navya Rai	International Research Journal Of Modernization In Engineering Technology And Science ISSN: 2582-5208, Volume 4, May 2022	UGC Care

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
	Nil			

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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				

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	Dr. Suresha D	20
2	Mr. John Prakash Veigas	20
3	Mrs. Sivapuram Jayasree	22
4	Mrs. Sharanya P.S.	14
5	Mr. Rakesh M. R.	13
6	Mrs. Divya	14
7	Mrs. Archana Priyadarshini	14
8	Mrs. Navya Rai	16

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9	Mr. Prabhakar B.K.	16
10	Dr. Naganna Chetty	16
11	Mrs. Sahaya Shamini	16

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 Functional MoUs and activity mapping: Nil

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

D. Threats:



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- (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: Nil


Dr. SURESHA D

Name and Signature of the HOD

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


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Observations of the Academic Audit Team:

- Encouraged faculty to get research funds.
- Advised to work towards patents.
- Advised to establish more MOUs.

Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr Rajesh. Rai	Chairman	AJIET	
2	Vinod D'Souza	Extend Dept	AJIET	
3	Mr Anil BV.	Member (External)	KVGCE, Sulba	

IQAC COORDINATOR

PRINCIPAL
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REPORT ON THE ACADEMIC AUDIT

(Academic Year Start Date- 19-08-2022 - End Date 31- 08- 2023)

1. **Name of the Department:** Mechanical Engineering
2. **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.
3. **Mission of the Department:**
 - M 1. 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.
 - M 2. To nurture the students with a global outlook for a sustainable future with high moral and ethical values.
 - M 3. To strengthen collaboration with industries, academia and research organizations to enrich learning environment, thus enhance research and entrepreneurship culture.
 - M 4. 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	40

5. **Overall Demand Ratio:**40/60

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

Program	Female	Male	Total
Mechanical Engineering	0	40	40

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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	40	NIL	39	4	8	0	0	28	42.85	0.31
2	37	NIL	37	6	5	0	0	26	42.30	0.37
3	56	NIL	56	6	5	5	1	17	69.64	0.223
4	56	NIL	53	16	13	3	1	20	62.26	0.519
5	21	NIL	21	1	8	4	1	7	66.67	0.44
6	21	01	20	4	11	5	0	0	100	0.738
7	55	NIL	55	18	18	7	1	11	80.00	0.734
8	55	NIL	54	28	14	6	1	5	90.7	0.77

8. Number of classrooms and Laboratories with ICT facilities:

04 Class rooms & 02 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):

NIL

11. Details of Students Achievements:

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

CULTURAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated	No. of 1 st	No. of 2 nd	No. of 3 rd	Participated

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-	-	-	-	-	-	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---	---	---	---

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

12. Details of Student Publications in Conferences/Journals

Title of the paper	Name of the author(s)	Details of the Publication
Cyclic Variation and Combustion Analysis of Single Cylinder CI Engine with Cardanol Oil Biodiesel	Vikas R Shetty Trivikram Shreyank S Maneesh N.K	2nd International Conference on RECENT TRENDS IN MECHANICAL ENGINEERING SCIENCES (RTIMES-2023)

13. Details of Students completed Certification Programs

Year	No of Students	Name of the Course and Course Provider
1 st	-	-
2 nd	27	Certification course on AUTOCAD/Digi CADD
3 rd	-	-
4 th	-	-

14. Details of Student Undergone Internships

ACADEMIC YEAR: 2022-23		Total Number of Internship undergone by students: 55	
SI No	Company Name	Total No of Students	
1	BASF India LTD	02	
2	Beestone Solar ,Bangalore	04	
3	Bolas Agro Pvt LTD	01	
4	Goa ware polynets, Kapu	01	
5	GTTC ,MANGALORE	06	
6	Gurucharan Industries, Baikampady	02	
7	HINDUSTAN HUME PIPE INDUSTRIES, BRAHMAVARA	01	
8	HYVA INDIA PVT LTD, Mumbai	02	

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9	IAEC (CULCUTTA)PVT LTD	01
10	Indian railway,mangaluru	01
11	Inventeron Tecnoloics and Business solutions LLP	02
12	Jai Auto vehicles PVT LTD Gurgaon	01
13	Kakunje Software	01
14	Keltron Component Complex Ltd	05
15	KERALA ELECTRICAL AND ALLIED ENGINEERING CO. LTD., KUNDARA	01
16	Keylynk Bangalore	01
17	KSRTC Mangalore	01
18	MANGALORE CHEMICALS AND FERTILIZERS LTD	01
19	Mangalore pipe industries	03
20	MCF Ltd	01
21	Mukka protiens LTD	01
22	New mangalore port authority,Panambur mangalore	02
23	Shakti tools, mangalore	01
24	Shree rajashree Aerated Water Products	01
25	Spectrum Industries ,baikampady	02
26	Steel & Industrial forgings LTD	01
27	Stelna Designs-3D printing &Product Designing service	02
28	Syngene International LTD,Mangalore	02
29	TATA steel Long Products Jamshedpur	01
30	The Canara Worksops Limited,Maroli	02

15. Details of students undertaken Mini Projects

Sl. No.	Batch No	USN	Student Name	Guide Name	Project Title
1	B1	4JK20ME001	ABISHEK KUMAR PADAVU	Mr.Nithin Shet	Motorised elevating cart
2		4JK20ME004	ASHIK H S		
3		4JK20ME014	MUHAMMED SHAZ T P		
4	B2	4JK20ME005	BHUVAN B SHETTY	Dr.Vignesh Nayak	Motorised hydraulic jack

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16. Details of students undertaken Major Projects

Sl. No.	Batch	USN	Student Name	Guide	Project Title
1	B1	4JK19ME012	DHANUSH M S	Mr. Sudheer Kini	RF Controlled Beach Cleaning Machine
2		4JK19ME047	SIBIN K SAJI		
3		4JK19ME031	NIKHIL		
4		4JK19ME014	GOUTHAM SHETTY		
5	B2	4JK19ME004	AKHILA V P	Dr. Rajesh Rai	Design and fabrication of river waste cleaning machine
6		4JK19ME009	ASHWANTH P V		
7		4JK19ME006	AMAL RAJ K		
8		4JK19ME010	BINEESH VARGHESE		
9	B3	4JK19ME015	HARSH SRIVASTAVA	Mr. Nithin Shet	Extraction of hydrogen gas from wood
10		4JK19ME017	J ABHISHEK		
11		4JK19ME007	ANVESH C N		
12		4JK19ME039	SAMBHRAM R CHOWTA		
13	B4	4JK19ME051	VIKAS	Mr. Prashanth D A	Mechanical Forklift
14		4JK19ME040	SAMRUTH N		
15		4JK19ME021	K MOHAMMED AFTHAB		
16	B5	4JK19ME036	RISHI JOSHI	Dr. Vighnesha Nayak	An Experimental Investigation on Engine Performance, Combustion and Emission Study for a Single Cylinder CI Engine with Cardanol Biodiesel and CuO Nanoparticle
17		4JK18ME012	BHARATH P (YO)		
18		4JK19ME042	SATVIK POOJARI		
19		4JK19ME029	MUHAMMED MUNAVVAR C P		

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20	B6	4JK19ME045	SHARVARI	Dr. Sreejith	Design And Analysis Of Solar Powered Electric Vehicle
21		4JK18ME037	SHEIKH NIZAM (YO)		
22		4JK19ME019	JESWIN BIJU		
23		4JK19ME032	NITHIN P		
24	B7	4JK19ME044	SHAMATH B ACHAR	Mr. Prakhyath	Pyrolysis Unit (Conversion Of Waste Plastic To Useful Fuel)
25		4JK19ME011	CHETHAN B K		
26		4JK19ME048	SUMANTH N		
27		4JK19ME005	ALFAZ IBRAHIM		
28	B8	4JK19ME013	ESHANK JALAN	Mr. Harold D'Souza	Design and fabrication of solar powered vehicle
29		4JK18ME005	AKARSH		
30		4JK19ME002	ABHILASH A S		
31		4JK19ME022	K P CHARAN KUMAR		
32	B9	4JK19ME052	VIKAS R SHETTY	Mr. Prasad B G	Cyclic Variation and Combustion Analysis of Single Cylinder CI Engine with Cardanol Biodiesel and CuO Nanoparticle
33		4JK20ME400	SHREYANK S		
34		4JK19ME023	MANEESH N K		
35		4JK19ME050	TRIVIKRAMA		
36	B10	4JK19ME027	MONISH AHMAD BAKHTIYAR	Dr. Sunil Kumar S	"Electric Airboat - A Low Cost And Modified Water Vehicle To Control Water Pollution"
37		4JK20ME401	SREERAG K P		
38		4JK19ME026	MOHAMMED ZAHID HUSSAIN		
39		4JK19ME016	INAYATH MOHAMMED		
40	B11	4JK19ME054	ZENON JEREMIAH	Mr. Prashanth D A	Wear Studies On Nylon 66 – Sic Pmc'S
41		4JK18ME017	ELDRIN PEREIRA		
42		4JK19ME037	RONAK REON RAJ		



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Sl No.	Code	Name	Faculty	Project Title
		DAVID		
43	4JK19ME020	JOYSON D SOUZA		
44	4JK19ME001	ABDUL BASITH	Mr. Sudheer Kini	Investigation On Performance Enhancement Of Photovoltaic thermoelectric Integrated System
45	4JK19ME038	SAJUN V N		
46	4JK19ME003	AKASH MOHANAN		
47	4JK19ME033	PRAJWAL SHETTY		
48	4JK19ME046	SHETTY BHAVITH MADHAVA	Mr. Sudhesh Shetty	An Experimental Investigation On Performance And Emission Characteristics Of Single Cylinder Biogas- Diesel Dual Fuel Engine
49	4JK18ME024	MUHAMMAD SAHIL ARSHAD		
50	4JK19ME049	SUSHAN S KUMAR		
51	4JK19ME028	MUHAD MUSTHAFA		
52	4JK19ME034	PRAJWAL SURESH	Mr. Prakhyath	Electric Vehicle Charging Station Using Hybrid Power System
53	4JK19ME018	JAGATH S SHETTY		
54	4JK19ME041	SARTHAK SHETTY		
55	4JK19ME030	MUHD NIHAD SHAKIR HUSSAIN		

17. Details of Industry Visits Organized for Students

Sl No.	Date	Company Details	No of students
1	23/01/2023	Deccan Plast Konaje	20
2	23/12/2022	Government Tool Room and Training center	22
3	23/01/2023	JV Springs Baikampady	20
4	23/12/2022	Lamina Foundries Ltd Nitte	22
5	16/12/2022	Government Tool Room and Training center	32

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

SI NO	USN	STUDENT NAME
1	4JK18ME005	AKARSH (YO)
2	4JK18ME012	BHARATH P (YO)
3	4JK18ME017	ELDRIN PEREIRA (YO)
4	4JK18ME024	MUHAMAD SAHIL A (YO)
5	4JK18ME037	SHEIKH NIZAM (YO)
6	4JK19ME001	ABDUL BASITH A
7	4JK19ME002	ABHILASH A S
8	4JK19ME003	AKASH MOHANAN
9	4JK19ME004	AKHILA V P
10	4JK19ME005	ALFAZ IBRAHIM
11	4JK19ME006	AMALRAJ K
12	4JK19ME007	ANVESH C N
13	4JK19ME009	ASWANTH P V
14	4JK19ME010	BINEESH VARGHESE
15	4JK19ME011	CHETHAN B K
16	4JK19ME012	DHANUSH M S
17	4JK19ME013	ESHANK JALAN
18	4JK19ME014	GOUTHAM SHETTY
19	4JK19ME015	HARSH SRIVASTAVA
20	4JK19ME016	INAYATH MOHAMMED



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21	4JK19ME017	J ABHISHEK
22	4JK19ME018	JAGATH S SHETTY
23	4JK19ME019	JESWIN BLJU
24	4JK19ME020	JOYSON D'SOUZA
25	4JK19ME021	K MOHAMMED AFTHAB
26	4JK19ME022	K P CHARAN KUMAR
27	4JK19ME023	MANEESH N K
28	4JK19ME026	MOHAMMED ZAHID H
29	4JK19ME027	MONISH AHMAD B
30	4JK19ME028	MUHAD MUSTHAFA
31	4JK19ME029	MUHAMED MUNAVVAR
32	4JK19ME030	MUHD NIHAD S HUSSAIN
33	4JK19ME031	NIKHIL
34	4JK19ME032	NITHIN P
35	4JK19ME033	PRAJWAL SHETTY
36	4JK19ME034	PRAJWAL SURESH
37	4JK19ME036	RISHI JOSHI
38	4JK19ME037	RONAK REON RAJ DAVID
39	4JK19ME038	SAJUN V N
40	4JK19ME039	SAMBHRAM R.CHOWTA

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41	4JK19ME040	SAMRUTH N
42	4JK19ME041	SARTHAK SHETTY
43	4JK19ME042	SATVIK POOJARY
44	4JK19ME044	SHAMATH B ACHAR
45	4JK19ME045	SHARVARI
46	4JK19ME046	SHETTY BHAVITH M
47	4JK19ME047	SIBIN K SAJI
48	4JK19ME048	SUMANTH N
49	4JK19ME049	SUSHAN S KUMAR
50	4JK19ME050	TRIVIKRAMA
51	4JK19ME051	VIKAS
52	4JK19ME052	VIKAS R SHETTY
53	4JK19ME054	ZENON JEREMIAH
54	4JK20ME400	SHREYANK S
55	4JK20ME401	SREERAG K P

SI No	Category	Weeks	Duration (hrs)	Points
1	Helping local schools to achieve good result and enhance their enrolment in Higher/ technical/ Vocational Education.	2	80-90	20
2	Preparing an actionable business proposal for enhancing the village Income.	2	80-90	20
3	Developing Sustainable Water Management system	2	80-90	20
4	Tourism Promotion Innovative Approaches.	2	80-90	20
5	Promotion of Appropriate Technologies.	2	80-90	20
6	Reduction in Energy Consumption.	2	80-90	20
7	To Skill rural population.	2	80-90	20
8	Facilitating 100% Digitized money transactions.	2	80-90	20



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9	Setting of the information imparting club for women leading to contribution in social and economic issues.	2	80-90	20
10	Developing and managing efficient garbage disoosable system.	2	80-90	20
11	To assist the marketing of rural produce.	2	80-90	20
12	Food preservation/packaging.	2	80-90	20
13	Automation of local activities.	2	80-90	20
14	Spreading public awareness under rural outreach programmes	2	80-90	20
15	Contribution to any national level initiative of Government of India. For e.g. Digital India/ Skill India/ Swachh Bharat Internship etc.,	2	80-90	20

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

SI .NO	TITLE	FUNDED AWARDE D	YEAR	RUPEES	STUDENT NAME	GUIDE
1	INVESTIGATION ON PERFORMANCE ENHANCEMENT OF PHOTOVOLTAIC-THERMOELECTRIC INTEGRATED SYSTEM	KSCST	2022-2023	8000/-	MR.ABDUL BASITH MR. AKASH MOHANAN MR. PRAJWAL SHETTY MR.SAJUN V N	Dr. Sreejith B.K Mr.Sudheer kini K

20. Faculty strength and specialization.

Sl. No.	Name	Designation	Qualificat ions	Experience	Area of Specialization	No. of Ph.D Guided/Guiding
1	Dr. Rajesh Rai P	Professor	Ph.D	28	Advanced Manufacturing Engineering	-
2	Dr. Vighnesha Nayak	Associate Professor	Ph.D	11	IC Engines and Combustion	-
3	Dr. Sreejith B K	Associate Professor	Ph.D	11	Aerodynamics	-



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4	Dr. Sunil Kumar S	Assistant Professor	Ph.D	16	Fracture Mechanics	-
5	Mr. Prashantha D A	Assistant Professor	M.Tech	16	Materials Manufacturing	-
6	Mr. Harold Joyson D'Souza	Assistant Professor	M.Tech	13	Computer Aided Mechanical Design and Analysis	-
7	Mr. Nithin Shet	Assistant Professor	M.Tech	09	Manufacturing	-
8	Mr. Sudheer Kini	Assistant Professor	M.Tech	09	Machine Design	-
9	Mr. Prakhyath	Assistant Professor	M.Tech	06	Advanced Thermal Power and Energy Systems	-
10	Mr. Prasad B G	Assistant Professor	M.Tech	13	Computer Integrated Manufacturing	-
11	Mr. Sudhesh Shetty	Assistant Professor	M.Tech	08	Machine Design	-

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
	-	-	-	-

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

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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	Bending Deflection Solutions of Thick Beams Using a Third-Order Simple Single Variable Beam Theory	Mr.Sudheer Kini K	Lecture Notes in Civil Engineering, Recent Advances in Structural Engineering and Construction Management, 978-981-19-4039-2	Springer
2	Bending Deflections and Natural Frequencies of Micro/Nanobeams Using a Third Order Single Variable Nonlocal Beam Theory	Mr.Sudheer Kini K	Lecture Notes in Civil Engineering, Recent Advances in Structural Engineering and Construction Management, 978-981-19-4039-2	Springer

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
-	-	-	-	-

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
-	-	-	-
-	-	-	-

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
-	-	-	-	-	-

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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	NIL	NIL	

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

Sl. No.	Name of the Mentor	No. of Mentees
1	Mr. Harold J D'Souza	15
2	Mr. Nithin Shet	14
3	Mr. Sudheer Kini	13
4	Mr. Prakhyath	14
5	Dr. Vighnesha Nayak	17
6	Dr. Rajesh Rai P	12
7	Mr. Prasad B G	16
8	Dr. Sunil Kumar	16
9	Dr. Sreejith B K	15
10	Mr. Prashantha D A	13
11	Mr. Sudesha Shetty	16


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

ACADEMIC YEAR: 2022-2023			
Total Number of Seminar undergone by students: 55			
Sl No	USN	Name	Title
1	4JK18ME005	AKARSH	Sky Bus Technology
2	4JK18ME012	BHARATH P	alternative fuels for internal combustion engines
3	4JK18ME017	ELDRIN PEREIRA	self inflating tyre system
4	4JK18ME024	MUHAMAD SAHIL A	Drivetrain system in an Electric car
5	4JK18ME037	SHEIKH NIZAM	Shock absorber
6	4JK19ME001	ABDUL BASITH A	CERAMIC DISC BRAKES
7	4JK19ME002	ABHILASH A S	Adaptive Cruise Control
8	4JK19ME003	AKASH MOHANAN	Phase change materials (PCMs)
9	4JK19ME004	AKHILA V P	Automatic emergency braking system
10	4JK19ME005	ALFAZ IBRAHIM	I-VTEC ENGINE
11	4JK19ME006	AMALRAJ K	Valvetronic Engine
12	4JK19ME007	ANVESH C N	High speed machining
13	4JK19ME009	ASWANTH P V	nano batteries
14	4JK19ME010	BINEESH VARGHESE	Nanorobotics
15	4JK19ME011	CHETHAN B K	bio mass fuel based on wastes from the paper industry
16	4JK19ME012	DHANUSH M S	Independent Suspension System
17	4JK19ME013	ESHANK JALAN	Antilock braking system
18	4JK19ME014	GOUTHAM SHETTY	magnet pneumatic suspension system

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19	4JK19ME015	HARSH SRIVASTAVA	advance driver assistant system
20	4JK19ME016	INAYATH MOHAMMED	Continuously variable transmission
21	4JK19ME017	J ABHISHEK	Autonomous Underwater Vehicle
22	4JK19ME018	JAGATH S SHETTY	Solar air conditioning
23	4JK19ME019	JESWIN BIJU	Aqua silencer
24	4JK19ME020	JOYSON D'SOUZA	CRDI
25	4JK19ME021	K MOHAMMED AFTHAB	Sensotronic brake control
26	4JK19ME022	K P CHARAN KUMAR	Safety Airbags
27	4JK19ME023	MANEESH N K	Friction stir welding
28	4JK19ME026	MOHAMMED ZAHID H	Biomechatronic Hand
29	4JK19ME027	MONISH AHMAD B	Turbocharger in IC Engines
30	4JK19ME028	MUHAD MUSTHAFA	Ultrasonic Motor
31	4JK19ME029	MUHAMED MUNAVVAR	Laser ignition for ic engine
32	4JK19ME030	MUHD NIHAD S HUSSAIN	Ball piston engine
33	4JK19ME031	NIKHIL	Non pneumatic tyres
34	4JK19ME032	NITHIN P	Solid Waste Management
35	4JK19ME033	PRAJWAL SHETTY	Hydrogen Fuel cell vehicles
36	4JK19ME034	PRAJWAL SURESH	ADVANCED LEVEL IN NANO ELECTRO MECHANICAL SYSTEM
37	4JK19ME036	RISHI JOSHI	Combustion characteristics and cyclic variation of a LPG fuelled MPFI four cylinder gasoline engine

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38	4JK19ME037	RONAK REON RAJ DAVID	Shock absorber
39	4JK19ME038	SAJUN V N	Supercharging in Automobile
40	4JK19ME039	SAMBHRAM R.CHOWTA	cryogenic Engine
41	4JK19ME040	SAMRUTH N	nanotechnology
42	4JK19ME041	SARTHAK SHETTY	WELDING ROBOT
43	4JK19ME042	SATVIK POOJARY	Twin turbo
44	4JK19ME044	SHAMATH B ACHAR	REGENERATIVE BRAKING SYSTEM
45	4JK19ME045	SHARVARI	4D Printing
46	4JK19ME046	SHETTY BHAVITH M	Dual Fuel Engine
47	4JK19ME047	SIBIN K SAJI	FRACTAL ROBOT
48	4JK19ME048	SUMANTH N	electric vehicle
49	4JK19ME049	SUSHAN S KUMAR	Ultrasonic welding
50	4JK19ME050	TRIVIKRAMA	railway wagon breaking system
51	4JK19ME051	VIKAS	Solar Refrigeration
52	4JK19ME052	VIKAS R SHETTY	Human Augmentation and Extended Reality in the context of Industry 4.0
53	4JK19ME054	ZENON JEREMIAH	Night vision technology
54	4JK20ME400	SHREYANK S	hybrid vehicle drivetrain
55	4JK20ME401	SREERAG K P	Quadcopter

Sl No	Title of Activity	Date	Link for report
1	Electric Vehicle Awareness Program	11-11-2022	
2	Technical Talk on Awareness program on 3D Printing and Industry 4.0	18-11-2022	

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OUT COME:

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:

Sl No	MOU	Year	Activities
1	CADD Centre	2022-23	Certification on CATIA
2	Government Tool and Training Centre	2022-23	Industrial visit
3	Government Tool and Training Centre	2022-23	Internship

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.
- Industry Connections:** Established relationships with industries, leading to internships, placements, and real-world project opportunities.
- Accreditation:** Accreditation from relevant bodies ensuring adherence to quality standards and educational effectiveness.
- Student Organizations:** Active student clubs and organizations that enhance learning through competitions, workshops, and events.

B. Weaknesses:

- Resource Limitations:** Possible constraints in funding or resources for advanced projects or facility


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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	<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

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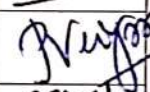
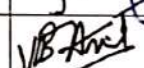
34. Any other information, which is not covered above:


Name and Signature of the HOD
(Dr Rajah Rai)

Observations of the Academic Audit Team:

- 1- Admission from CET Category should be improved
- 2- Adoption of modern Tools should be practiced in the dept-

Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr Rajah Rai	Chairman	AJIET	
2	John Prakash Vegu	Ext Dept member (ZSE)	AJIET	
3	Dr Anil B.V	Ext College member	KVGCE	


IQAC COORDINATOR


PRINCIPAL

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