



**REPORT ON THE ACADEMIC AUDIT  
(Academic Year JUNE, 2019- MAY, 2020)**

- 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) :**

SI.NO:	Name of Program	Sanctioned Intake	Number of Students Admitted
1	Computer Science and Engineering	60 + 03	63

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

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

Program	Female	Male	Total
Computer Science and Engineering	23	40	63

Principal

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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	57	0	57	19	18	08	0	12	79	0.6403
2	57	0	57	30	14	05	0	12	86	0.7543
3	48	0	48	10	15	14	0	9	81	0.5885
4	48	0	48	15	18	04	0	11	77	0.6354
5	47	0	47	12	19	11	0	5	89.36	0.6755
6	48	0	48	40	07	01	-	-	100	0.9531
7	48	0	48	50	5	-	-	3	95.74	0.9114
8	48	0	48	47	0	0	0	1	97.91	0.9791

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

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

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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, 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: NIL

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

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

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

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

Title of the paper	Name of the author(s)	Details of the Publication
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13. Details of Students completed Certification Programs

Year	No of Students	Name of the Course and Course Provider
1 <sup>st</sup>	Nil	
2 <sup>nd</sup>	3	Java Programming Great Learning

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		The Fundamentals of Digital Marketing Python Programming	Google Digital Garage Bridget Academy
3 <sup>rd</sup>	36	The Fundamentals of Digital Marketing C# AWS Technical Essentials and Architecting Algorithmic Tool Box Python data Structure Web Design: Strategy and Information Architecture Interactivity with Java script Programming for Everybody Configuration Management and the Cloud Python 3 Java Cyber Security and Internet of Things Introduction to front end development with React JS Responsive Website Basics: Code with HTML, CSS and Java Script Android Application Development	Google Digital Garage Solo Leam Ethnus Coursera AJIET, idan alore
4 <sup>th</sup>	1	Complete React Developer	Udemy

## 14. Details of Student Undergone Internships -39

ACADEMIC YEAR:2019-20	Total Number of Internship undergone by students:39	
Sl No	Company Name	Total No of Students
1	Slekin Technical Solutions	19
2	Kakunje Software Pvt. Ltd.	11
3	Epitas Software LLP	1
4	CODECRAFT TECHNOLOGIES PVT LTD	1
5	HashedIn Technologies	1
6	Juego Studio Pvt LTD	3
7	The syndicate tech	1
8	Novigo Solutions	2

  
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## 15. Details of students undertaken Mini Projects

Sl. No	Batch	USN	Students Name	Guide	Title
1	B1	4JK17CS036	Sethu S Pillai	Mr. Nithin K Heraje	Hostel Management System
2		4JK17CS025	Kannan		
3	B2	4JK17CS034	Muhammed Rayees N P	Mr. Nithin K Heraje	Bus Booking System
4		4JK17CS035	Nikhil Manohar K		
5	B3	4JK17CS026	Karthik V Bhat	Mr. Nithin K Heraje	Payroll Management System
6		4JK17CS027	Keith Lennor Veigas		
7	B4	4JK17CS002	Abhinand P	Mr. Nithin K Heraje	Courier Management System
8		4JK17CS009	Albin Sunny		
9	B5	4JK17CS014	Athul K	Mr. Nithin K Heraje	Gym Management System
10		4JK17CS001	Abhijith AV		
11	B6	4JK17CS053	Sneha Joseph	Mr. Nithin K Heraje	Retail Management System
12		4JK17CS038	Priyata Manohar		
13	B7	4JK17CS040	Rashmi R Rao	Mr. Nithin K Heraje	IPL Database Management System
14		4JK17CS044	Sahana Shetty		
15	B8	4JK17CS047	Sheeba Bangera	Mr. Nithin K Heraje	Real Estate Property Managemnt System
16		4JK17CS048	Shravya		
17	B9	4JK17CS022	Harshitha Amin	Mrs. Aparna Shetty	Online Examination System
18		4JK17CS054	Sonali L		
19	B10	4JK17CS011	Anusha BM	Mrs. Aparna Shetty	Patient Management



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20		4JK17CS012	Ardhra Babu		System
21	B11	4JK17CS010	Amaljith M	Mr. Nithin K Heraje	Vehicle Rental System
22		4JK17CS008	Akshay P		
23	B12	4JK17CS006	Ajith	Mr. Nithin K Heraje	Supermarket
24		4JK17CS005	Aishwarya B Shetty		
25		4JK17CS020	Harshakrishna A		
26	B13	4JK18CS400	Swathi S	Mr. Nithin K Heraje	Student Activity Model
27	B14	4JK17CS042	Safvan T	Mr. Nithin K Heraje	Internal Exam Invigilation System
28		4JK17CS041	Roopa S Nayar		
29	B15	4JK17CS020	Karthik	Mr. Nithin K Heraje	Student Activity Model
30	B16	4JK17CS016	Chitrally	Mr. Nithin K Heraje	Restaurant Management System
31		4JK17CS021	Harshita C Prabhu B		
32	B17	4JK17CS015	Benditta Chacko	Mr. Nithin K Heraje	Attendance Management System
33		4JK17CS023	Irfadul Haque		
34		4JK17CS033	Mrudulo P K		
35	B18	4JK17CS018	Gokul N V	Mr. Nithin K Heraje	Food Ordering System
36		4JK17CS028	Maanvi Anchan		
37	B19	4JK17CS050	Shruddha	Mr. Nithin K Heraje	Healthcare Managemnt System
38		4JK17CS057	Varsha V Shetty		
39	B20	4JK17CS019	Hansea Coelho	Mr. Nithin K	Blood Donor



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40		4JK17CS024	Janmitha Smrithi Bangera	Heraje	Managemnt System
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## 16. Details of students undertaken Major Projects

Sl. No	Batch	USN	Students Name	Guide	Title
1	B1	4JK16CS031	Rakshith	Mr. Basappa Kodada	Smart Door
2		4JK16CS010	Avaneesh		
3		4JK16CS022	Kishor Kumar		
4		4JK16CS027	Nayana Krishna		
5	B2	4JK16CS005	Ashika K C	Mr. Nithin Kumar Heraje	Class attendance using face recognition
6		4JK16CS013	Deeksha Shetty		
7		4JK16CS004	Anvitha		
8		4JK16CS018	Jeslita		
9	B3	4jk16CS001	Adhya Rai	Mrs. Aparna Shetty	Automated Toll collection using RFID
10		4jk16CS040	Shylesh		
11		4jk16CS043	Srujana		
12		4jk16CS038	Srijal		
13	B4	4JK16CS014	Deekshith K	Dr. Antony P J	Natural Language Processing for kannada Language



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14		4JK16CS016	Hitesh Kumar		
15		4JK16CS024	Maneesh Raj		
16		4JK16CS037	Shashank H		
17	B5	4JK16CS034	Sampreetha J	Mr.Pradeep Kumar	Automated parking system
18		4JK16CS035	Savyashree A		
19		4JK16CS042	Soujanya P		
20		4JK16CS045	Varsha Shetty		
21	B6	4JK16CS008	Ashwitha k titty	Mrs. Saranya Babu	Disease Identification in tomoto plants using machine learning
22		4JK16CS017	Ishwarya lakshmi		
23		4JK16CS028	Nisha u		
24		4JK16CS029	Pooja u		
25	B7	4JK16CS036	Sharath Kumar	Mr. Nithin Kumar Heraje	Pest controlling robot
26		4JK16CS026	Aslam		
27		4JK16CS047	Aman Das		
28		4JK16CS021	Kiran Kumar		
29	B8	4JK16CS009	Astle	Mr. Chanchal Antony	Restaurant seat reservation and food ordering system



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30		4JK16CS002	Alex		using ML and AI
31		4JK16CS012	Chiranthan		
32		4JK16CS011	Ranjith		
33	B9	4JK16CS030	Prajwal		
34		4JK16CS006	Askika Sab	Mrs.Sharon C DSouza	Medical image processing to detect abnormalities in blood cells
35		4JK16CS015	Glen		
36	B10	4JK16CS019	Vishal Shet		
37		4JK16CS025	Mohamed Ashab		
38		4JK16CS032	Ramya	Mrs. Snitha Shetty	Smart Water monitoring ssystem using Iot
39		4JK16CS046	Zuha		

## 17. Details of Industry Visits Organized for Students

SI No.	Date	Company Details	No of students
1	12-02-2020	CEOL(Centre for Entrepreneurship Opportunities & Learning)	66 (Mr.Nithin)

## 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.

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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	Mr. Basappa B Kodada	Associate Professor	M. Tech	14	Cloud Computing & Cryptography	-
3	Mrs. Sharon C D'souza	Assistant Professor	M. Tech	1.5	Computer Science & Engineering	-
4	Mr. Nithin Kumar Heraje	Assistant Professor	M. Tech	05	Computer Science & Engineering	-
5	Ms. Aparna Shetty	Assistant Professor	M. Tech	02	Computer Science & Engineering	-
6	Mrs. Snitha Shetty	Assistant Professor	M. Tech	07	Computer Science & Engineering	-
7	Mr. Shreyas H	Assistant Professor	M. Tech	02	Computer Science & Engineering	-
8	Mr. Pradeep Kumar K G	Assistant Professor	M. Tech	05	Computer Science & Engineering	-
9	Mrs. Saranya Babu	Assistant Professor	M. Tech	07	Computer Science & Engineering	-
10	Mr. Chanchal Antony	Assistant Professor	M. Tech	10	Computer Science & Engineering	-

21. No. of Faculties Registered for Ph.D Programs: 03

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

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

  
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SI No	Title of the Book Chapter	Name of the author(s)	Details of the Publications(ISSN/IS BN, Volume, Date of Publication etc.)	Details of the Publisher
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## 24. Books published by the Faculties during the year: NIL

SI No.	Title of the Book	Name of the author(s)	Details of the Publications(ISSN/ISBN, Volume, Date of Publication etc)	Details of the Publisher
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## 25. Number of Faculty who received National/ International fellowship/Financial/Awards Support by various agencies: NIL

SI No.	Name of the Faculty	Details of Fellowship/Financial/Awards	National/International
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## 26. Research funds sanctioned and received from various agencies, industry and other organizations: NIL

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: NIL

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):

### II YEAR

SI No	USN	Name	Counsellor Name
1	4JK18CS001	ADON BIJU	Mr. Pradeep Kumar
2	4JK18CS002	AISHATH SAPREENA	

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3	4JK18CS003	AKASH PRASAD	
4	4JK18CS004	AKSHAY D T	
5	4JK18CS005	AKSHAYA BHALIKHA D S	
6	4JK18CS006	AMAL KURIAKOSE	
7	4JK18CS007	AMAL MATHEW	
8	4JK18CS008	AMEENA AFREENA	
9	4JK18CS009	AMSHITHA R	
10	4JK18CS010	ANANYA R SHETTY	
11	4JK18CS011	ANIRUDH K	
12	4JK18CS012	ANITA RAMAKRISHNA BHAT	
13	4JK18CS013	ANUSHA DSOUZA	
14	4JK18CS014	ANUVINDA K V	
15	4JK18CS015	ASHIKA	
16	4JK18CS016	ASHWIKA V SHETTY	
17	4JK18CS017	BHAVNA SHARMA	
18	4JK18CS018	CHANDANA BALLALA J R	
19	4JK18CS019	CHANDANA I K	
20	4JK18CS020	DEEKSHA	
21	4JK18CS021	DEEKSHA D SHENOY	
22	4JK18CS022	DEVANARAYANA P C	
23	4JK18CS023	FAYEZ UMARUL FARUK	
24	4JK18CS024	INSHA NAZ	
25	4JK18CS025	JISMON M U	
26	4JK18CS026	K V BHOOMIKA	
27	4JK18CS027	KARISHMA SHETTY	
28	4JK18CS028	KARTHIKEYA KUMAR	
29	4JK18CS029	KARTHIKEYA NEROLU	
30	4JK18CS030	KEERTHANA R	
31	4JK18CS031	LAVANYA PUSHPAKAR	
32	4JK18CS032	LAVITA GLORIA LOBO	Mr. Chanchal Antony
33	4JK18CS033	LENISH K J	
34	4JK18CS034	MANU KASHYAP	
35	4JK18CS035	MEGHANA SHETTY	
36	4JK18CS036	MONISHA D	
37	4JK18CS037	MUHAMMAD IHJAZ EBRAHIM	
38	4JK18CS038	MUHAMMED SHAMEEL A	
39	4JK18CS039	NEHA C NAIK	
40	4JK18CS040	NIDHI K	
41	4JK18CS041	NIREEKSHA RAI G	
42	4JK18CS042	OMKARESH	
43	4JK18CS043	PALLAVI SHETTY	Mrs. Saranya babu
44	4JK18CS044	PUJARI RIYA PREM	

Mrs. Saranya babu

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45	4JK18CS045	RADHA SRI VAMSI KARRI
46	4JK18CS046	RAI NINAD BHASKAR
47	4JK18CS047	RAMYASHREE
48	4JK18CS048	RANJITH N
49	4JK18CS049	RASSAL T
50	4JK18CS050	RIFTHASHIA
51	4JK18CS051	SAACHYA S SHETTY
52	4JK18CS052	SABHYATHA MURIAL SUVARNA
53	4JK18CS053	SANJANA SHETTY
54	4JK18CS054	SARTHAK
55	4JK18CS055	SHETTY CHIRAG DIVAKAR
56	4JK18CS056	SHIHAB ABDUL RAHIMAN
57	4JK18CS057	SHRADDHA
58	4JK18CS058	SNEHAL
59	4JK18CS059	SOURAB SURESH
60	4JK18CS060	SUBHAKAR
61	4JK18CS061	UNNATI K
62	4JK18CS062	VISHAKHA KOTECHA
63	4JK18CS063	VISHNU V NAIR

## III YEAR

SI No	USN	Name	Counsellor Name
1	4JK16CS020	KARTHIK	Mrs. Aparna Shetty
2	4JK17CS001	ABHIJITH A V	
3	4JK17CS002	ABHINAND P	
4	4JK17CS005	AISHWARYA B SHETTY	
5	4JK17CS006	AJITH	
6	4JK17CS008	AKSHAY P	
7	4JK17CS009	ALBIN SUNNY	
8	4JK17CS010	AMALJITH	
9	4JK17CS011	ANUSHA B M	
10	4JK17CS012	ARDHRA BABU	
11	4JK17CS014	ATHUL K	
12	4JK17CS015	BENDITTA CHACKO	
13	4JK17CS016	CHAITRALY	
14	4JK17CS018	GOKUL N V	
15	4JK17CS019	HANSEA COELHO	
16	4JK17CS020	HARSHAKRISHNA	
17	4JK17CS021	HARSHITA C PRABHU B	
18	4JK17CS022	HARSHITHA AMIN	
19	4JK17CS023	IRFADUL HAQUE C. T.	

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20	4JK17CS024	JANMITHA SMRITI BANGERA
21	4JK17CS025	KANNAN
22	4JK17CS026	KARTHIK V BHAT
23	4JK17CS027	KEITH LENNOR VEIGAS
24	4JK17CS028	MAANVI ANCHAN
25	4JK17CS033	MRUDUL P K
26	4JK17CS034	MUHAMMAD RAYEES N. P.
27	4JK17CS035	NIKHIL MANOHAR K
28	4JK17CS036	PILLAI SETHU SREEKUMAR
29	4JK17CS038	PRIYATHA MANOHAR
30	4JK17CS040	RASHMI R RAO
31	4JK17CS041	ROOPA S NAYAR
32	4JK17CS042	SAFVAN T.
33	4JK17CS043	SAHAL KASIM M P
34	4JK17CS044	SAHANA SHETTY
35	4JK17CS045	SAMEEKSHA SHETTY
36	4JK17CS046	SHASHANK S MAYYA
37	4JK17CS047	SHEEBA HENRITA BANGERA
38	4JK17CS048	SHRAVYA
39	4JK17CS049	SHREELATHA
40	4JK17CS050	SHRUDDHA
41	4JK17CS051	SINCHANA LAHARI
42	4JK17CS052	SMITHA A S
43	4JK17CS053	SNEHA JOSEPH
44	4JK17CS054	SONALI L
45	4JK17CS056	UNNI
46	4JK17CS057	VARSHA V SHETTY
47	4JK17CS058	ANUGRAH C
48	4JK18CS400	SWATHI S

Mrs. Snitha Shetty

## IV YEAR

SI No	USN	Name	Counsellor Name
1	4JK16CS001	ADHYA RAI K	Mr. Basappa B K
2	4JK16CS002	ALEX G JAMES	
3	4JK16CS004	ANVITHA RAI A	
4	4JK16CS005	ASHIKA K C	
5	4JK16CS006	ASHIKA SAB	
6	4JK16CS008	ASHWITHA K TITTY	
7	4JK16CS009	ASTLE RUSSEL FERNANDEZ	
8	4JK16CS010	AVANEESH A	
9	4JK16CS011	B N RANJITH	
10	4JK16CS012	CHIRANTHAN M V	
11	4JK16CS013	DEEKSHA B. SHETTY	
12	4JK16CS014	DEEKSHITH K	



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13	4JK16CS015	GLEN REUBEN D'SOUZA	Mr. Nithin Heraje
14	4JK16CS016	HITESH KUMAR SIWAN	
15	4JK16CS017	ISHWARYA LAKSHMI	
16	4JK16CS018	JESLITA RODRIGUES	
17	4JK16CS019	K VISHAL SHET	
18	4JK16CS021	KIRAN KUMAR P V	
19	4JK16CS022	KISHOR KUMAR	
20	4JK16CS024	MANEESH RAJ	
21	4JK16CS025	MOHAMMED ASHAB	
22	4JK16CS026	MUHAMMED ASLAM S	
23	4JK16CS027	NAYANA KRISHNA P	
24	4JK16CS028	NISHA U	
25	4JK16CS029	POOJA U	
26	4JK16CS030	PRAJWAL G RAO	
27	4JK16CS031	RAKSHITH SHETTY	
28	4JK16CS032	RAMYA R	
29	4JK16CS034	SAMPREETHA J	
30	4JK16CS035	SAVYASHREE A	
31	4JK16CS036	SHARATH KUMAR K	
32	4JK16CS037	SHASHANK H	
33	4JK16CS038	SHRIJAL J K	
34	4JK16CS040	SHYLESH P NAIK	
35	4JK16CS042	SOWJANYA P	
36	4JK16CS043	SRUJANA N	
37	4JK16CS045	VARSHA SHETTY	
38	4JK16CS046	ZUHA VASEEM	
39	4JK16CS047	AMAN DAS T P	

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

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

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

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

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## 32. SWOT Analysis

### A. Strength:

- (i) Visionary leadership characterized by significant aspirations.
- (ii) Competent and dedicated academic personnel.
- (iii) A career-oriented educational framework designed to produce highly skilled graduates who are prepared for the workforce.

### B. Weaknesses:

- (i) There was a deficiency of full-time research scholars, which hampers the overall research.
- (ii) Limited engagement in research activities and the scarcity of publications
- (iii) The absence of outreach programs restricts the dissemination of knowledge and collaboration with the broader community

### C. Opportunities:

- (i) Collaborative efforts within the industry
- (ii) Digital education platforms
- (iii) Financial support and funding opportunities

### D. Threats:

- (i) The rapid advancement of information technology is reshaping the landscape of development in the sector.
- (ii) There is a notable lack of collaborative academic partnerships with international universities, which limits opportunities for growth and exchange.
- (iii) The presence of competing institutions in the vicinity poses a significant challenge to attracting and retaining students.

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
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## 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

  
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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. Student's achievements needs to be improved
2. Student's publications need to be improved.

### Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr. Rajesh Rai	Chairman	AJIET, M'lore	
2	Dr. Vighnesh Nayak	External Dept.	AJIET, M'lore	
3	Dr. Jose Alex	External.	SIT, M'lore	

IQAC COORDINATOR

PRINCIPAL  
Principal  
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**REPORT ON THE ACADEMIC AUDIT**  
**(Academic Year Start Date- 29-07-2019 – End Date 01-06-2020)**

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	46

5. **Overall Demand Ratio:**  $46/60 = 0.767$

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

Program	Female	Male	Total
Civil Engineering	11	35	46

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## 7. Result Analysis :

Semester	Total No. of Students	Total No. of Absentees	Total No. of Students Appeared	FCD	FC	SC	PAS S	FAI L	Pass %	PI (%)
1	42	0	42	4	9	2	0	27	35.71	27.98
2	42	0	42	23	13	5	1	0	100	84.52
3	31	0	31	3	2	7	2	17	45.16	27.42
4	31	0	31	16	11	3	1	0	100	83.87
5	35	0	35	8	15	6	0	6	82.86	63.57
6	35	0	35	33	2	0	0	0	100	98.57
7	25	0	25	4	9	11	0	1	96	65
8	25	0	25	1	16	6	0	2	92	64

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

9. Total number of computers available for students : 22

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

11. Details of Students Achievements:

TECHNICAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
-	-	-	4	-	-	-	3	-	-	-	2

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

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

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

Title of the paper	Name of the author(s)	Details of the Publication
Decadal land use land cover changes of Mangalore Taluk using QGIS,	Anurag C M, Rohan Madta, Pavan G S and Manoj, Dr. Suman K	Conference Proceedings of International Conference Trending Moments and Steer Forces-2019, Goa Don Bosco college of Engineering (DBCE), Fatorda.31 October to 1 November, 2019

## 13. Details of Students completed Certification Programs

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

## 14. Details of Student Undergone Internships

Year	No of Students	Details of the Company
1 <sup>st</sup>	-	-
2 <sup>nd</sup>	-	-
3 <sup>rd</sup>	-	-
4 <sup>th</sup>	02	Impal Construction, I.G Road Joythinagar, Chikmangalur. Email – impalconstructions@gmail.com
	04	Barath Construction, No 107, Somayaji House, B C Road- 574219. Email – barathconstructing@gmail.com
	02	Galagali Associates, Architectural & Structural Consultants Bridge Engineers & PMC First Floor, Anand

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		Complex, Opp. Kotambri Science College, Vidyanagar, Hubballi -580031, Karnataka Email – galagali.associates@gmail.com
	10	S N D B Ventures PVT Ltd, #49,1st Floor, 4th Cross, Muneshwara Temple Street, J.P Nagar 1st Phase, Sarakki Near Sindhoor Convention Centre Bangalore-560078 Email – sndbventurespvtitd@gmail.com
	04	Bhandary Builders, 1st Floor Kalpataru Complex, Opp: Kadri Arch, Mallikatta Mangalore -575002, Karnataka Email – info@bhandarybuilders.com
	01	Sreerosh Developers (P) Ltd, 1 <sup>st</sup> floor, Ennes enclave, near ashoka hospital, south bazaar, Kannur – 670002, Kerala Email – kannur@sreerosh.com
	01	M/S. Shripada Industries, Atalnagara, Alikemajalu, Sullia -574239, D.K. Karnataka
	01	Shalimar Reality Holdings, 4 <sup>th</sup> floor, Mangalore gate, Mangalore – 575001 Email – info@shalimarrealty.in

## 15. Details of students undertaken Mini Projects

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

## 16. Details of students undertaken Major Projects

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

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4 <sup>th</sup>	ASHIKA PAI	Stabilization of clay and shady soil using geopolymers	Mr. Vinod D Souza
	MILAN BENNY		
	Md. ARAF		
	PRAMOD S H	Experimental investigation on aggregate gradation of pervious concrete mixtures	Dr. Sangeetha D.M.
	HARISHA V E		
	ISMAIL NAZIM		
	MUNEEB		
	SALMA I J	Usage of waste plastic in pavement	Mr. Dilip Kumar U.
	ASHISH V KUMAR		
	HELAN ROSE		
	SAITH SHETTY		
	ANURAGH C M	Decadal land use land cover changes of Mangalore district using QGIS	Mrs. Suman Kundapura
	PAWAN C S		
	ROHAN MADTHA		
MANOJ			
YOGISH	Assessment of Surface and Ground water quality near municipal solid waste dumping	Mr. Nithesh	
ADARSH SHETTY			

## 17. Details of Industry Visits Organized for Students

Sl No.	Date	Company Details	No of students
1	23-09-2019	Dakshina kannada Nirmih Kendra Surathkal Mangalore	34

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

1. Participated in beach cleaning initiatives is crucial for preserving marine ecosystems and ensuring the well- being of coastal communities.
2. Empowering rural populations through skill development initiatives is essential for fostering sustainable development and improving livelihoods in these communities.

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



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## 20. Faculty strength and specialization.

Sl. No.	Name	Designation	Qualifications	Experience	Area of Specialization	No. of Ph.D Guided/Guiding
1	Dr. Akshatha Shetty	Associate Professor	Phd	10	Structural Engineering	-
2	Pr. Vinod T D'Souza	Assistant Professor	M. Tech	23	Geotechnical Engineering	-
3	Dr. Sangeetha D.M	Associate Professor	Phd	11	Structural Engineering	01 ( Co Guide)
4	Dr. Suman Kundapura	Assistant Professor	M. Tech	6	Hydraulics and water resource Engineering	-
5	Mrs. Deeksha Anand	Assistant Professor	M. Tech	7	Construction Technology	-
6	Mr. Nikhil N	Assistant Professor	M. Tech	7	Structural Engineering	-
7	Mr. Dileep Kumar U	Assistant Professor	M. Tech	5	Structural Engineering	-
8	Mr. Saketh Shetty	Assistant Professor	M. Tech	12	water resource Engineering	-
9	Mr. Nitesh	Assistant Professor	M. Tech	5	Environmental Engineering	-

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

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

Sl No.	Title of the paper	Name of the author(s)	Details of the Publications(ISSN /ISBN, Volume, Date of Publication etc.)	Indicate Scopus/Web of Science/UGC Care
1	Experimental Investigation on Fibre Reinforced Concrete Using Waste Plastics and Different Mineral Admixtures	Dr. Sangeetha D M	IOP Conf series: Material Science and Engineering, Vol 561 pp. 102015.	Scopus

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## 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	NIL	-	-	-

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

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

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

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

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

Sl No.	Name of the Project	Name of the Principal Investigator	Year of Award	Funds Sanctioned (Rs.)	Duration of the project
1	A PROPOSED PLAN FOR REJUVENATE AND STUDY OF HYDRAULIC RESPONSE OF THE KAVOOR LAKE MANGALORE URBAN	Mr. SAKETH SHETTY	2019-2020	5000	1.5 Years
2	ASSESSMENT OF SURFACE AND GROUND WATER QUALITY NEAR MUNICIPAL SOLID WASTE DUMPING SITE AREA, VAMANJOOR, MANGALORE INDIA	Prof. NITESH	2019-2020	5000	1.5 Years

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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(fil ed/publi shed/aw arded)
1	NIL	-	-	-

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

### 4<sup>th</sup> year student Counsellor List-2019-2020

Sl. No.	Name of the Mentor	No. of Mentees
1	Sangeetha	12
2	Vinod T Dsouza	13

### 3<sup>rd</sup> year student Counsellor List-2019-2020

Sl. No.	Name of the Mentor	No. of Mentees
1	Dileep	16
2	Nikhil	17
3	Nitesh	7

### 2<sup>nd</sup> year counselor List 2019-2020

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

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

Sl. No	Name of the Convener/Coordinator	Title of the Event	Details of the Resource Person(s)	Duration with dates	No. of participants	Outcome
1	Prof. Vinod T D'Souza	ONE DAY WORKSHOP ON REVIT ARCHITECTURE	Er. A. KALAIARASAN Senior Engineer, CAAD centre Training Service PVT Ltd Chennai	26-7-2019 8hours	25	Understand the tools required to accomplish the BIM concepts. Improve the architect's or Engineer's real work

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						and make the building better. Understand the functionalities under the building life cycle. Create Building information modeling solutions.
2	Prof. Vinod T D'Souza	FOUR DAY WORKSHOP ON MANAGING TOOLS AND PROJECTS IN AUTOCAD	MS. Jhanvi Head, DIGICADD Institute of Drafting and Design	31 <sup>st</sup> July – 3 <sup>rd</sup> Aug 2019  32 Hours	62	Upon completion of the course students will be able to Utilize the power and precision of AutoCAD as a drafting and design tool used in the mechanical design and manufacturing industries. Apply basic CAD concepts to develop and construct accurate 2D geometry through creation of basic geometric constructions.
3	Ms. Deeksha Anand	Technical talk on earth retaining structure and advances in concrete	Er. Ekanath Dandakeri, Principal, Yenepoya Institute of Technology Moodbidri  Dr. Rajesh G D' Souza	18-9-2019  4 Hours	100	To understand the basics of earth dams, retaining structures, slopes, and cuts. 2. To understand and apply the basics

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			PROPRIETOR, Sigma Consultant, Mangalore			of lateral earth pressure theories. 3. To apply geotechnical engineering principles for the design of earth dams, retaining structures, slopes, and cuts. 4. To analyze the stability of earth dams, slopes, cuts, and retaining structures.
4	PROF. VINOD T D'SOUZA	TWO DAY WORKSHOP ON REVIT ARCHITECTURE	MS. Jhanvi Head, DIGICADD Institute of Drafting and Design	26-02-2020 to 27-02-2020 16 Hours	30	Understand the tools required to accomplish the BIM concepts. Improve the architect's or Engineer's real work and make the building better. Understand the functionalities under the building life cycle. Create Building information modeling solutions.
5	DR. SANGEETHA D.M	WEBINAR ON DEVELOPMENT OF PREFABRICATED DRY CONSTRUCTION TECHNOLOGY IN BUILDING	Dr. KULKARNI KISHOR SITARAM SCIENTIST CSIR-CBRI Roorkee	8-7-2020 2 Hours	95	Understand the development of dry-construction technology addressing to the attributes: disaster resilience, thermally comfortable

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						energy efficiency and fire resistant
6	Dr. Suman Kundapura	WEBINAR ON CLIMATE CHANGE IMPACTS OF HYDROLOGY OF WESTERN GHAT RIVER CATCHMENT S	Dr. Amogh Mudbhatakhal Post Doctoral Fellow School Geography and Lincoln centre for water and Planetary Health, London	18-07-2020 2 Hours	88	Students will enable the hydrological and ecological impacts of extreme rainfall and its impact on the environment

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

1. RSHU: Activity nil

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

### 32. SWOT Analysis

#### A. Strength:

- (i) Received one University rank
- (ii) Good number of admission happened in the first year
- (iii) Highly qualified Faculty members in the department

#### B. Weaknesses:

- (i) Student project quality was limited

#### C. Opportunities:

- (i) Internship opportunities were very good

#### D. Threats:

- (i) Placement activity was poor

### 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

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IA Audit  Yes  No

P- Files  Yes  No

Student Feedback/ Faculty Feedback/ Program Feedback  Yes  No

Appraisal  Yes  No

Whether Innovative Teaching Methods Included  Yes  No

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

Vined George

Name and Signature of the HOD  
H.O.D.-Civil Engineering  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006, D.K., Karnataka

### Observations of the Academic Audit Team:

1. Student Internship quality has to be improved.
2. Faculty development programs need to be conducted in the department.

### Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	DR. RAJESH RAI	Chairman	AJIET	
2	MR. RAKESH M.R	External Dept Member (ISE)	AJIET	
3	DR. JOSE ALEX	External College Member (CSE)	SIT, Yalachi	

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## REPORT ON THE ACADEMIC AUDIT (Academic Year 29-07-2019- 01-06-2020)

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):**2019-20

SI.NO:	Name of Program	Sanctioned Intake	Number of Students Admitted
1	Electronics & Communication Engineering	60	63

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

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

Program	Female	Male	Total
Electronics & Communication Engineering	25	38	63

7. **Result Analysis :**

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Semester	Total No. of Students	Total No. of Absentees	Total No. of Students Appeared	FCD	FC	SC	PASS	FAIL	Pass %	PI (%)
1	63(2019 batch)-1st sem	0	63	25	19	3	47	16	74.60	64.68
2	63(2019 batch)-2 <sup>nd</sup> sem	0	63	59	4	0	63	0	100	98.41
3	48-3 <sup>rd</sup> sem	0	48	17	14	7	38	10	79.16	64.58
4	47-(2018 batch)4 <sup>th</sup> sem	0	47	38	8	1	47	0	100	94.68
5	29-5 <sup>th</sup> sem	0	29	16	18	3	27	2	93.10	81.03
6	29-6 <sup>th</sup> sem-2017batch	0	29	29	0	0	29	0	100	100
7	23(7 <sup>th</sup> sem)	0	23	5	10	5	20	3	86.95	65.22
8	23(2016 - batch) 8 <sup>th</sup> sem	0	23	17	4	0	21	2	91.30	86.96

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

3 classrooms+1 tutorial room  
3 software laboratories +3hardware laboratories

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

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

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

NIL

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## 11. Details of Students Achievements:

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

CULTURAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
-	-	-	-	3	4	1	86	-	-	-	-

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

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

Title of the paper	Name of the author(s)	Details of the Publication
-	-	-

## 13. Details of Students completed Certification Programs

Year	No of Students	Name of the Course and Course Provider
1 <sup>st</sup>	-	-
2 <sup>nd</sup>	1	Webinar- Women in Engineering Industry and IEEE Bangalore section
	4	Webinar-An insight to AI Frameworks and AJIET Mangaluru

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	4	Webinar-Use of Mendeley Web library in Research Workflow and AJIET Mangaluru
	4	Webinar-Artificial Intelligence and AJIET Mangaluru
	4	Webinar Building Blocks of Integrated power Managment (Analog & VLSI Design) and AJIET Mangaluru
3 <sup>rd</sup>	1	Internet of Things and VerZ
	1	Artificial Intelligence in Python and Great Learning Academy
	1	Front end Development-HTML and Great Learning Academy
	1	Python for machine learning and Great Learning Academy
	1	Java Programming and Great Learning Academy
	1	Front end Development CSS and Great Learning Academy
	1	Webinar-Practicing Industrial IOT and AJIET, Mangaluru
4 <sup>th</sup>	--	-

#### 14. Details of Student Undergone Internships

Year	No of Students	Details of the Company
4 <sup>th</sup> (2016 batch)	23	EPITAS Empowering Innovation
3 <sup>rd</sup> year	1	Cognitive Solutions

#### 15. Details of students undertaken Mini Projects :NIL

#### 16. Details of students undertaken Major Projects

4<sup>th</sup> year

Academic Year: 2019 – 20					
Sl. No.	Student Name	USN	Title of the Project	Project Guide	Awards Won
1	Dhanush K	4JK16EC004	Smart Notice Board	Mr. Raghavendra Havalldhar	--
	Meghana K S	4JK16EC012			
	Poomashree Naik	4JK16EC017			
2	Shreyank R Naik	4JK16EC019		Dr. Gnane Satapathi	--

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	Anushri C	4JK16EC023	Automated Pill Dispenser		
3	Adithya Kumar Bhat	4JK16EC001	Voice Controlled Wheel Chair	Mr. Sruthin Balachandran	KSCST and VTU
	Medhini	4JK17EC401			
	Aishwarya NG	4JK17EC400			
4	M Prajna	4JK16EC008	Vehicle number plate detection using image processing	Mr. Shreyas H	--
	Manasa A S	4JK16EC009			
	Prashanthi D Shetty	4JK16EC018			
5	Ankitha Y	4JK16EC003	Hospital Automation using RFID	Mr. Manjukiran	--
	Meghana A J	4JK16EC011			
	Nivin D	4JK16EC016			
6	K Chirag Bhat	4JK16EC006	Real Time Face Recognition Using Python	Prof. Prakash K Shetty	--
	Navya M	4JK16EC006			
	Megha K Kottary	4JK16EC010			
7	Gagan BM	4JK16EC005	Driver Safety and Vehicle Security System	Mrs. Prateeksha Rai	--
	Sweedol Caroline	4JK16EC021			
	Rithiksha Shetty K	4JK16EC022			
8	Akshay Shetty	4JK16EC002	Leaf Disease Detection Using Image Processing	Dr. Shantharama Rai C Mr. Manjukiran	
	Suhan	4JK16EC020			
	Meghana Shetty	4JK16EC013			

## 17. Details of Industry Visits Organized for Students

Sl No.	Date	Company Details	No of students
	25-10-2019	Mangalore Refinery and Petrochemicals Limited (MRPL)	30

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

Sl.No	Name of the activity	Name of the scheme	Academic year
1	Swachcha Abhiyan	NSS	2019-2020
2	AIDS Day awareness program	NSS	2019-2020

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3	Swachchtha Abhiyan, market road	NSS	2019-2020
4	Sramadhana at Madhya School	NSS	2019-2020
5	Health and cleanliness at the surrounding Kodical Primary School	NSS	2019-2020
6	An awareness programme on utilization of drinking water	AICTE -Activity point	2019-2020
7	Workshop conduction for school students regarding fun and easy way to learn the academic subjects	AICTE -Activity point	2019-2020
8	Helping local school to achieve good results and enhance their enrolment in higher technical /vocational education	AICTE -Activity point	2019-2020
9	Swachh Bharath Abhiyan Phase 5	AICTE -Activity point	2019-2020
10	Helping local schools to achieve good results and enhance their enrolment in higher/technical/vocational education at D.K. Jilapanchayat Higher Primary School, Chelaru	AICTE -Activity point	2019-2020
11	Beach Cleaning at Tannirbhavi Beach	AICTE -Activity point	2019-2020
12	Helping local schools to achieve good results and enhance their enrolment in higher/technical/vocational education at GMUP School Kodical	AICTE -Activity point	2019-2020

## 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	43S_BE_0207 KSCST	Voice controlled chair	Mr.Sruthin Balachandra V V Mr.Prakash Shetty	Stream A	Mr.Adithya Kumar Bhat Aishwarya NG Medhini	Rs 5000/-
2	VTU (Avishkar) 2019 Completed	Voice controlled Wheel Chair	Mr. Sruthin Balachandran		Mr.Adithya Kumar Bhat Aishwarya NG Medhini	Rs. 20000/-
3	VTU (Innovative Project) – 2019 Completed	Voice controlled Wheel Chair	Mr. Sruthin Balachandran Mr. Prakash K Shetty		Mr.Adithya Kumar Bhat Aishwarya NG Medhini	Rs. 5000/-

  
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## 20. Faculty strength and specialization.

Sl. No.	Name	Designation	Qualifications	Experience	Area of Specialization	No. of Ph.D Guided/Guiding
1	Dr. Shantharama Rai C	Professor	PhD	21y6m	Control System and Power Electronics	8
2	Mr. Prakash K Shetty	Associate Professor	M. Tech	27y7m	Bio-Medical Engineering	
3	Dr. Gnane Swarnadh Satapathi	Associate Professor	PhD	6y	Signal Processing	2
4	Mr. Manjukiran B	Assistant Professor	M.E	12y1m	Electronics	
5	Mr. Kiran Kumar V G	Assistant Professor	M. Tech	20y	VLSI and Cryptography	
6	Mr. Raghavendra Havaladar	Assistant Professor	M. Tech	8y	Digital Electronics and Communication system	
7	Mr. Mohan A R	Assistant Professor	M. Tech	8y	VLSI Design and Embedded Systems	
8	Mrs. Arpitha k Shetty(22-01-2020)	Assistant Professor	M. Tech	2.6y	Digital Electronics	
9	Mrs. Thrappathi Shetty	Assistant Professor	M. Tech	6y	Microelectronics &CS	
10	Mr.Sruthin Balachandran V V	Assistant Professor	M.E	2y	VLSI Design	
11	Ms.Pratheksha Rai N	Assistant Professor	M.Tech	6y3m	Digital Electronics	
12	Mrs. Sahana K Adyanthaya	Assistant Professor	M. Tech	10y6m	Digital Electronics and Communication Systems	
13	Mrs.Divya A	Assistant Professor	M. Tech	12y	Digital Electronics	

## 21. No. of Faculties Registered for Ph.D. Programs: 2

Sl.No	Name of the Scholar	Name of the guide
1	Manjukiran B	Dr.Shantharama Rai C
2	Sahana Adyanthaya	Dr.Gnane Swarnadh Satapathi

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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	Performance Analysis of Bit loading Algorithms for fault tolerant Submarine Communication	Dr. Shantharama Rai C, Dr.Karunakar Rai	IJEAT,August 2019,Vol 8,issue 6,ISSN 2249-8958	Scopus
2	Performance analysis of fault tolerant heuristic algorithms for determining optimal	Dr.Shantharam a Rai C, Dr.Karunakar Rai	IJITEE,sept-19,Vol 18,issue 11 ISSN:2278-3075	Scopus
3	Thin Film Transistors For Display Applications- A review	Dr.Shantharam a Rai C, Ganesh V N	IJAST,Jul-20,vol 29,No.7,2005-4238	Scopus
4	Implementation and analysis of cryptography Ciphers in FPGA	Dr.Shantharam a Rai C (Co author)	Springer,Sep-2019,chapter/10.10 07/978-981-13-1951-8 59	Scopus
5	A Novel key scheduling algorithm for lightweight cryptographic applications	Dr.Kiran KumarV G(co author) Dr.Shantharam a Rai C (Co author)	IJATCSE,feb-2020,vol 9,No.1,ISSN 2278-3091	SCI, Elsevier
6	Design and Implementation of Efficient cryptographic arithmetic based on reversible logic and vedic mathematics	Dr.Kiran Kumar V G Dr.Shantharam a Rai C	IJATCSE,Apr-2020,VOL 9 No.2,ISSN 2278-3091	SCI, Elsevier
7	Implementation of efficient cryptographic arithmetic units	Dr.Kiran Kumar V G Dr.Shantharam a Rai C	DOI:10.33832/ijjsia .2020.14.2.01 June 2020	Web of Science

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

SI No	Title of the Book Chapter	Name of the author(s)	Details of the Publications (ISSN/ISBN, Volume, Date of Publication etc.)	Details of the Publisher
1	"Implementation and Analysis of cryptographic ciphers in FPGA"	V.G. Kiran Kumar, Dr. Shantharama Rai C	Emerging Technologies in Data Mining and Information Security IEMIS 2018, Volume 1 International, 978-981-13-1950-1 Affiliated-AJIET,	Springer Singapore

### 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: NIL

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

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

### 4<sup>th</sup> year student Counsellor List-2019-2020

Sl. No.	Name of the Mentor	No. of Mentees
1	Mr.Raghavendra Havaladar	12
2	Mr.Manjukiran B	11

### 3<sup>rd</sup> year student Counsellor List-2019-2020

Sl. No.	Name of the Mentor	No. of Mentees
1	Mrs.Sahana A	10
2	Mr.Ganesh	9
3	Mr.Sruthin B	10

### 2<sup>nd</sup> year counsellor List 2019-2020

Sl. No.	Name of the Mentor	No. of Mentees
1	Dr.Gnane Swarnadh Satapathi	12
2	Mrs.Arptha Shetty	12
3	Mrs.Pratheksha Rai	12
4	Mrs.Divya A	12

## 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	Prof. Prakash K Shetty	Talk on Entrepreneurship & Wealth creation	Ramesh K Mahadev,CEO "TRIVIDTRANS"	01-10-19	110	Inspire individuals to pursue their dreams,innovate and contribute to

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						economic growth.
2	Mr.Raghaven dra Havaldhar	Workshop on Node MCU Basics	Mr.Mahesha Y	26-10-19	29	Understand the Node MCU platform and its capabilities
3	Prof. Prakash K Shetty	Workshop on Mentor graphics & Zed board applications.	Mr.Vijendra Mr.Sujith	20,21 September ,2019	23	The workshop aimed to equip participants with the knowledge and skills to design ,simulate and implement complex digital systems & embedded applications using these tools

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

Sl.No	MOU partner	Address	Date	Activity mapping
	NIL			

31. Details of Consultancy Work in the department: NIL

### 32. SWOT Analysis

#### A. Strength:

- (i)The department of Electronics & communication engineering has qualified ,experienced and dedicated teaching faculty with good retention ratio.
- (ii)The use of cutting edge technology (ICT) to enhance teaching and learning.
- (iii)The faculty provides direct mentoring ,interaction and skill enhancement opportunities for students.

#### B. Weaknesses:

- (i). Participation of faculty in National and international professional activities beyond the state.
- (ii). Generation of revenue through consultancy

#### C. Opportunities:

- (i). Organize FDPs/National and international conferences.

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

## D. Challenges:

- (i) The department has students coming from varied socio-economic background.
- (ii) Placement with higher annual package
- (iii) Attracting top-ranked students to the department
- (iv) 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

(Prakash K. Slutty)

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## Observations of the Academic Audit Team:

- ① Students must be encouraged to take up national & International level qualifying exams like GATE, CAT, civil Services etc.
- ② Students must be get involved in Mini-Project & Seminars presentations, paper publications etc.
- ③ More faculty of the dept. must register for Ph.D.

## Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr. Rajak Rai	Chairman	AJIET	
2	Dr. Vishnoshan Nayak	Member (INT)	AJIET, Mang.	
3	Dr. Jose Alex Mathew	Member (EXT)	SIT, Valachil	

IQAC COORDINATOR

PRINCIPAL

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**REPORT ON THE ACADEMIC AUDIT  
(Academic Year Start June, 2019 – End May, 2020)**

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

**3. Mission of the Department :**

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

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

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

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

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

**5. Overall Demand Ratio: 105%****6. Students Enrollment (Program wise) :**

Program	Female	Male	Total
Information Science and Engineering	29	34	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	62	1	61	26	20	10	59	3	95	0.75
2	61	0	61	58	3	0	61	0	100	0.99
3	58	0	85	11	20	8	42	17	72.40	0.53

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4	58	0	58	42	13	2	58	0	100	0.91
5	22	0	22	5	11	2	17	5	77	0.65
6	22	0	22	18	3	1	22	0	100	0.94
7	13	0	13	3	8	2	13	0	100	0.77
8	13	0	13	13	0	0	13	0	100	1.00

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

9. Total number of computers available for students: 133

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

11. Details of Students Achievements:

TECHNICAL											
NATIONAL LEVEL				STATE LEVEL				REGIONAL LEVEL			
No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated	No. of 1 <sup>st</sup>	No. of 2 <sup>nd</sup>	No. of 3 <sup>rd</sup>	Participated
1				1	1	1		2	4	1	

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

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

12. Details of Student Publications in Conferences/Journals

Title of the paper	Name of the author(s)	Details of the Publication
NIL		

13. Details of Students completed Certification Programs

Year	No of Students	Name of the Course and Course Provider
1 <sup>st</sup>	NIL	
2 <sup>nd</sup>	NIL	

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1 <sup>st</sup>	NIL	
2 <sup>nd</sup>	NIL	
3 <sup>rd</sup>	NIL	
4 <sup>th</sup>	NIL	

## 14. Details of Student Undergone Internships

Year	No of Students	Details of the Company
1 <sup>st</sup>	NIL	
2 <sup>nd</sup>	NIL	
3 <sup>rd</sup>	NIL	
4 <sup>th</sup>	13	Kakunje Software private limited, Mangaluru Slekin Technical Solutions, Mangaluru Vivarttana Technologies, Bengaluru JobRole, Bengaluru Codecraft Technologies Pvt Ltd, Mangaluru

## 15. Details of students undertaken Mini Projects

Year	Name of the Student	Name of the Project	Name of the Guide
3 <sup>rd</sup>	Shahala Sheikh	The Banking System	Mr Nithin Kumar Heraje
	Neha Rao	College Notes Management System	Mr Nithin Kumar Heraje
	Prajwal K Rajesh	Wholesale Management System For Electronics Devices	Mr Nithin Kumar Heraje
	Chaithresh		Mr Nithin Kumar Heraje
	Charan MG		Mr Nithin Kumar Heraje
	Nihad Abdulla	College Notes Management System	Mr Nithin Kumar Heraje
	Prajna M	Placement Management System	Mr Nithin Kumar Heraje
	Nikhitha SA	Employee Management System	Mr Nithin Kumar Heraje
	Shreya MS		
	Shetty Yash Prakash	Expense Manager	
4 <sup>th</sup>	Vincent VC	Employee Management System	
	YashasviS Hegde		

## 16. Details of students undertaken Major Projects

Year	Name of the Student	Name of the Project	Name of the Guide
------	---------------------	---------------------	-------------------

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4 <sup>th</sup>	Athish Rai Salabha S P Jenisha	Hand Sign Recognition Using Machine Learning	Mrs. Vineetha Pais
	Devika Rahisha M Rafiq Shreya G Shetty Shreya V R	Automation On Conversion of Waste into Fertilizer	Mr. Gurudeva Hiremath
	Jennifer Pereira Mrinal Prithvi M S Simi M Shetty Swasthik S Shetty Tanvi Shetty	Sentiment Analysis of social media	Mrs. Shilpa Shetty A
		Music Generation Using LSTM Model	Mr. John Prakash Veigas Mr. Rakesh M R

## 17. Details of Industry Visits Organized for Students

Sl No.	Date	Company Details	No of students
1	03/05/2019	IQuest, Mysore	13
	04/05/2019	Infosys, Mysore	13

## 18. Details of Outreach Programs(AICTE Activity/NSS/NCC etc): 5

## 19. Details of Funds received by students for various activities: 24,000

## 20. Faculty strength and specialization.

Sl. No	Name	Designation	Qualifications	Experience	Area of Specialization	No. of Ph.D Guided/ Guiding
1	Dr Nagesh H R	Professor	B.E, Mtech, Phd	23	Computer Networks, Distributed Computing, Cloud Computing, BigData Analytics, Cryptography and Network Security, Systems Programming, Object Oriented Programming	3

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2	Mr. John Prakash Veigas	Assistant Professor	B.E, Mtech, (Phd)	9	Image Processing, Computer Vision, Machine Learning and Deep Learning	NIL
3	Mrs. Vineetha Pais	Assistant Professor	B.E, Mtech,	7	Web Application, Machine Learning	NIL
4	Mr. Rakesh M R	Assistant Professor	B.E, Mtech,	4	Electronics Image and signal processing VLSI	NIL
5	Mr. Gurudev S	Assistant Professor	B.E, Mtech,	8	Deep Learning & Machine Learning	NIL
6	Ms. Sushma	Assistant Professor	B.E, Mtech,	3	Networking, Image Processing, Web Application	NIL
7	Mrs. Shilpa Shetty	Assistant Professor	B.E, Mtech,	6	Internet of Things, Web Application	NIL
8	Mrs. Sharanya P S	Assistant Professor	B.E, Mtech,	5	Networking, Data Science, Data Analytics, Machine Learning	NIL

21. No. of Faculties Registered for Ph.D Programs: 1

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

Sl No.	Title of the paper	Name of the author(s)	Details of the Publications(ISSN/ISBN, Volume, Date of Publication etc.)	Indicate Scopus/Web of Science/UGC Care
1	A Novel Approach to Optimize the Performance of Hadoop Frameworks for Sentiment Analysis	Dr. Nagesh H R	International Journal of Open Source Software and Processes (IJOSSP), vol. 10, Issue 4. pp 44-59, October-December 2019	<a href="https://doi.org/10.4018/IJOSSP/2019/100103">https://doi.org/10.4018/IJOSSP/2019/100103</a>
2	Cloud Computing Adoption and its Impact in India	Mr. John Prakash Veigas	International Research Journal of Engineering and Technology (IRJET), vol 6, issue 6, pp 3128-3130, June 2019	

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3	Iris Recognition System: A Survey	Mr. John Prakash Veigas	International Journal for Science and Advance Research In Technology, June 2019, vol 5 issue 6, pp. 607-609	
4	Genetic Algorithm Based Gabor CNN For Palmprint Recognition	Mr. John Prakash Veigas	International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8, Issue-6 March 2020	
5	Journal on Survey on Swarm Intelligence Algorithm and Application	Mrs. Vineetha Pais	International Journal for Scientific Research & Development, ISSN Volume 7, Issue 02, 2019, Page, 2027-2029	
6	Swarm Intelligence A Survey	Mrs. Vineetha Pais	International Journal of Research in Engineering, Science and Management, Volume-2, Issue-5, May-2019	
7	Journal on Survey on Swarm Intelligence Algorithm and Application	Mr. Rakesh M R	International Journal for Scientific Research & Development, ISSN Volume 7, Issue 02, 2019, Page, 2027-2029	
8	Swarm Intelligence A Survey	Mr. Rakesh M R	International Journal of Research in Engineering, Science and Management, Volume-2, Issue-5, May-2019	
9	Design and implementation of window comparator circuit using operational amplifier	Mr. Rakesh M R	International Journal for Innovative Research in Multidisciplinary Field, volume - 5, issue - 8, AUG - 2019, pp 06-08	
10	Real Time Vehicle and Environment Monitoring in Smart Cities	Mrs. Sharanya P S	International Journal for Scientific Research & Development(IJSRD)  Vol. 7, Issue 12, Jan 2020   ISSN (online): 2321-0613	
11	An Image Processing based Model for Calculating Score in Electronic Target System using Watershed Algorithm	Ms. Sushma	International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 Volume 8 Issue XII Dec 2020	
12	Text Identification System for Grammatical Translation of English Language	Ms. Sushma	8th world conference on Applied Science, Engineering and management	

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13	A Survey on Different Technologies and Protocols Used in Internet of Things(IOT)	Ms. Sushma	National Conference on Advances in Science, Engineering and Management-19	
14	Real Time Vehicle and Environment Monitoring in Smart Cities	Shilpa Shetty A	International Journal for Scientific Research & Development(IJSRD)  Vol. 7, Issue 12, Jan 2020   ISSN (online): 2321-0613	

### 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			

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

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

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

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

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

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

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	NIL			
--	-----	--	--	--

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

Sl. No.	Name of the Mentor	No. of Mentees
	Mrs. Vineetha Pais	Athish Rai Devika Jennifer Pereira Mrinal P Jenishia Prajwal K Rajesh Prithvi M S Rahisha M Rafiq Salabha S Shreya Ganesh Shetty Shreya V R Simi M Shetty Swastik S Shetty Tanvi Shetty Yashasvi S. Hegde
	Dr. Nagesh H R	Aaisiri Anchan Apeksha Archana Rashmi Chaithresh Charan Mahadeva Gowda Deepthi J Deepthi Vibha Fathima K Khathijathul Sana Khyathi Nihad Abdulla Nikitha S A Prajna M Rakshitha Shetty Shahala Sheikh Shetty Yash Prakash Shreya M S Vincent V C Yajna J Neha Rao
	Mr. Gurudev Shastri	A Haritha Saraswathi Abhijith P P Aishwarya Akhil Kumar K S Amisha Shetty Amritha N Anujith Shetty

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		Anwitha Kiran Ayesha Shaiba Chaithrashree Chandan Honnappayya Gunaga Devadiga Ramya Mohan Dhanush S Shetty Dishanth S Dwithi Harshith Kumar S Krithi T Loran Rhiya D'souza Prathap
	Mr. John Prakash Veigas	Megha Jose Meghashree Melvin Chacko Mohammed Ainan K P Muhammad Nihal C Navitha Hegde Nayana S K Neha Naik Nikita Niraj Kumar Pavithra Pavithra Karanth Payal B U
	Mr. Rakesh M R	Pavithra Pavithra Karanth Payal B U Praise Mon K A Prajna H Rao Pratheeksha H Pratheeksha R Shetty Rakshith Ujwal Rakshitha Reshma Rohit S Saamiya Sagar Shetty Sharanya Shashank Shree Devi Soniya Y Putran Sudish Swapna Swathi K S Tanya Mendon Yashaswini Zubaida Shaima Shreya
	Ms. Sushma	

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		Nishitha Lenish K J Ayshath Sapreena
	Mrs. Sharanya P S	Karthik D Kille Kishan Kumar Kshama D Manvith Shetty Megha Mohammed Zaahid Umer Nandu R Neeraj K Nihal Kunder Nirmala Halakurki Poorvi M Rao Prajna S Puthran Prajwal S Bhat Prakhyath Prathvin R Devika Rahul M K Rakshitha Rakshitha Ram Krishna Marndi Ramya R Kini
	Mrs. Shilpa Shetty	Rishno S Sharmila Shetty Salman Farish Sanjana Arun Prabhas Sanjay Umesh Bangera Saud Hussain Shamitha Sharan S Shetty Sherene Rahel Maben Shraddha H S Shreya Shreyas Shreyas M Sinchana B R Sudarshan Udupa Sukhanya N Shet Swathi Thejas J Puthran Yathisha Ahamed Nithya H V

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

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Sl. No	Name of the Convener/Coordinator	Title of the Event	Details of the Resource Person(s)	Duration with dates	No. of participants	Outcome
1	Mr. Gurudev Shastri	Future of IOT And Data Analytics for Indian Scenario	Dr.Kavitha Sooda, Associate Professor, Dept. of CSE, B.M.S College of Engineering, Bangalore	03-09-2019	100	Understand the basics of IOT Application of IOT to Indian Scenario
	Mr. John Prakash Veigas	Three Day Hands-On Workshop On Machine Learning	Mr. Sachin Kumar S, Mr Vaishnav, Data Science Consultants, Konzepts Data Innovation Labs Pvt Ltd, Thiruvananthapuram	3 Days 16-18/09/2019	90	Understand and analyze the machine learning techniques. Understanding Python Libraries for ML task Apply ML for real time problems
	Mrs. Vineetha Pais	Workshop On Java Application Development	Faculties of ISE and CSE Dept	23-26/09/2019	40	Understand the basics of Java Programming Practical hands on experience of Java Concepts Building java web application
	Mr. Gurudev Shastri	Workshop On Android Application Development	Mr. Chetan S P, Team Leader at Lemonaid Software Technologies Pvt Ltd	23-26/09/2019	100	Understand the mobile application using Android Practical hands on experience of MAD Building mobile app.
	Mrs. Sharanya P S Mrs. Shilpa Shetty	Building Single Page Application Using Angular JS	Mr. Punith Gowda N	11-07-2020	105	Learn front end development tool and language Building the

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						application using Angular JS
	Mr. Gurudev Shastri Mrs. Vineetha Pais	Deep Learning for Smart City Applications	Mr. Sandeep Kumar Erudiyathan	25-07-2020	120	Understand and application of Deep learning for various applications
	Mr. Rakesh M R	Workshop on Virtual Labs	Faculties of ISE, AJIET Mangalore	09/12/2019	45	Learn the usage of Virtual Lab to study and conduct practical lab experiments

**30. Details of of Functional MoUs and activity mapping: Juego Studios Pvt. Ltd. Kakunje Software Pvt. Ltd. – Students undergone Internship and got placed under these Companies.**

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

**32. SWOT Analysis**

**A. Strength:**

- (i) Strong Curriculum and State of the art Infrastructure
- (ii) Experienced Faculties
- (iii) Research and Innovation

**B. Weaknesses:**

- (i) Limited Funding
- (ii) Lack of Global Exposure
- (iii) Placement Challenges

**C. Opportunities:**

- (i) Emerging Technologies and Trends
- (ii) Industry collaboration
- (iii) Online and continuing education

**D. Threats:**

  
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- (i) Rapid technology changes
- (ii) curriculum gaps
- (iii) Technical Skill enhancement

**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:

**DR. NAGESH H R**

**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:

- Encourage student Publication,
- Need to work on Patents & research funds by faculties
- Consultancy work is expected.

### Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr Rajesh Rai	Chairman	AJIET	
2	Deeksha Anand	External Dept	AJIET	
3	Dr. Jose Alex Mathew	External Member	SIT, valachil	

IQAC COORDINATOR

PRINCIPAL  
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## REPORT ON THE ACADEMIC AUDIT

(Academic Year Start Date- 29-07-2019 - End Date 01- 06- 2020)

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	54

5. **Overall Demand Ratio: 54/60**

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

Program	Female	Male	Total
Mechanical Engineering	2	52	54

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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	53	NIL	53	9	13	7	1	23	56.60	42.4
2	53	NIL	53	29	18	4	2	0	100	84.9
3	49	NIL	49	4	11	11	6	17	66	39.25
4	49	NIL	49	29	18	2	0	0	100	88.75
5	55	NIL	55	5	15	10	3	22	60	40.00
6	55	NIL	55	42	9	4	0	0	100	92.2
7	20	NIL	20	12	8	0	0	0	100	90
8	20	NIL	20	18	2	0	0	0	100	97.50

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

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

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

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

Title of the paper	Name of the author(s)	Details of the Publication
-	-	-

## 13. Details of Students completed Certification Programs

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

## 14. Details of Student Undergone Internships

ACADEMIC YEAR: 2019-20		Total Number of Internship undergone by students: 20	
SI No	Company Name	Total No of Students	
1	Deccan plastics Mangalore	05	
2	HAL Bangalore	01	
3	J.S springs ,Mangalore	04	
4	Konkan railways, surathkal	01	
5	Lamina suspension Mangalore	01	
6	MRPL	01	
7	OMPL Mangalore	05	
8	UPCL Adani group padubidri	01	
9	Vijaya industries Bangalore	01	

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## 15. Details of students undertaken Mini Projects

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

## 16. Details of students undertaken Major Projects

Sl. No.	Batch	USN	Team members	Guide	Project Topic
1	B1	4JK16ME020	ASHIT PRINSTON MABEN	Mr. Nithin Shet Dr. Sreejith B K	DESIGN AND ANALYSIS OF VERTICAL WIND TURBINE BLADE
2		4JK16ME003	ANUSHA (TL)		
3		4JK17ME402	BHUSHITH B		
4		4JK17ME408	VIKYATH K L		
5	B2	4JK16ME018	SOURABH A S (TL)	Dr. Rajesh Rai P. Mr. Sudheer Kini K	"GARUDA" -RECON AND ATTACK DRONE
6		4JK16ME019	VARUNCHAND S		
7		4JK17ME400	AKHIL THOMAS		
8		4JK17ME407	PUNITH RAJ NAIK J		
9	B3	4JK16ME013	MUHAMMED FAIZAL (TL)	Dr. Vighnesha Nayak Mr. Karyhik A V	PERFORMANCE , COMBUSTION & EMISSION CHARACTERSTICS OF SINGLE CYLINDER CI ENGINE WITH WCO BIO DIESEL & NANO PARTICLES
10		4JK16ME012	MOHAMMED SUHAIL		
11		4JK16ME006	HAMMABBA ANSHIF		
12		4JK16ME009	MAHAMMED ASHIK		
13	B4	4JK16ME016	RASIK AHAMED (TL)	Mr. Prashanth D A Mr. Prakhyath	DESIGN AND FABRICATION OF PLASTIC RECYCLING MACHINE
14		4JK16ME008	K M KRISHNANAND		
15		4JK16ME001	AKSHAY GEORGE		
16		4JK16ME002	ANOOP CHANDRAN K		
17	B5	4JK17ME401	ANU MATHEW	Mr. Vijay Kumar H K Mr. Harold Joyson D'Souza	WASTE SEGREGATION USING ROBOTIC ARM
18		4JK16ME014	PAVAN I K		
19		4JK17ME403	MAHAMMAD MUFEEZ (TL)		
20		4JK17ME405	NAVANITH SHETTY		

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## 17. Details of Industry Visits Organized for Students

SI No.	Date	Company Details	No of students
1	15/11/2019	Lamina Springs Pvt. Ltd – Baikampady	40

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

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

SI .NO	TITLE	FUNDED AWARDED	YEAR	RUPEES	GUIDE
1	GARUDA-RECON AND ATTACK	VTU	2019-2020	5000/-	Dr.Rajesh Rai.P Mr.Sudheer Kini k
2	PERFORMANCE COMBUSTION & EMISSION CHARACTERISTICS OF SINGLE CYLINDER CI ENGINE WITH WCO BIODIESEL NANOPARTICLES	KSCST	2019-2020	5000/-	Dr.Vighnesha Nayak Mr.Karthik A V

## 20. Faculty strength and specialization.

Sl. No.	Name	Designation	Qualifications	Experience	Area of Specialization	No. of Ph.D Guided/Guiding
1	Dr.Rajesh Rai P	Professor & HOD	Ph.D	25	Advanced Manufacturing Engineering	-
2	Dr.Vighnesha Nayak	Associate professor	Ph.D	08	IC Engines and Combustion	-
3	Dr.Sreejith B K	Associate professor	Ph.D	08	Aerodynamics	-
4	Mr. Prashantha D A	Assistant Professor	M.Tech	13	Materials Manufacturing	-
5	Mr.Nithin Shet	Assistant Professor	M.Tech	06	Manufacturing	-
6	Mr. Vijay Kumar	Assistant	M.Tech	17	Product Life Cycle	-



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7	Mr. Harold Joyson Dsouza	Professor Assistant Professor	M.Tech	10	Management Computer Aided Mechanical Design and Analysis
8	Mr. Sunil Kumar	Assistant Professor	Ph.D	13	Fracture Mechanics
9	Mr. Sudheer Kini K	Assistant Professor	M.Tech	06	Machine Design
10	Mr. Prakhyath	Assistant Professor	M.Tech	03	Advanced Thermal Power and Energy Systems
11	Mr. Karthik A V	Assistant Professor	M.Tech	03	Thermal Science and Energy Systems
12	Mr. Prasad B G	Assistant Professor	M.Tech	10	Computer Integrated Manufacturing

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

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

Sl No.	Title of the paper	Name of the author(s)	Details of the Publications (ISSN /ISBN, Volume, Date of Publication etc.)	Indicate Scopus/Web of Science/UGC Care
1	Advances in IC Engines and Combustion Technology. NCICEC 2019. Lecture Notes in Mechanical Engineering.	Dr. Vighnesha Nayak	ISBN978-981-15-5996-9	Scopus
2	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Dr.Sreejith B.K	ISSN: 1678-5878	Web of Science, Scopus

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

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

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

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

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

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

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

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

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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)
	-	-	-	-

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

Sl. No.	Name of the Mentor	No. of Mentees
1	Mr. Harold J D'Souza	
2	Mr. Nithin Shet	18
3	Mr. Sudheer Kini	10
4	Mr. Prakhyath	15
5	Dr. Vighnesha Nayak	19
6	Dr. Sunil Kumar	15
7	Dr. Sreejith B K	16
8	Mr. Prashantha D A	16
9	Mr. Vijaykumar H K	11
10	Mr. Prasad B G	18
11	Mr. Karthik A V	10
		18

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

Sl No	Title of Activity	Date
1	Workshop on Cost Effective Manufacturing and Assembly using CATIA	18-09-2019
2	Technical Talk on Basics and Advancement on IC Engines	23-10-2019
3	Technical talk on Basics of Robotics	26-02-2020

  
Principal  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006



# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust

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ACADEMIC YEAR: 2019-20			
Total Number of Seminar undergone by students: 20			
Sl NO	USN	Student Name	Title
1	4JK16ME003	ANUSHA	AIRBORNE WIND ENERGY
2	4JK16ME009	MAHAMMED ASHIK	HYDROGEN USE IN IC ENGINE
3	4JK16ME020	ASHIT PRINSTON M	THERMOMAGNETIC CONVECTION LOOP
4	4JK17ME408	VIKYATH K L	AIRFOIL WITH SUCTION
5	4JK16ME016	RASIK AHAMED	DIGITAL MANUFACTURING
6	4JK16ME008	K M KRISHNANAND	3D PRINTING
7	4JK17ME401	ANU MATHEW	HYPER LOOP TRANSMISSION
8	4JK16ME006	HAMMABBA ANSHIF	EMISSION REDUCTION TECHNOLOGY ON IC ENGINES
9	4JK17ME400	AKHIL THOMAS	THE WEAR RESISTANCE IMPROVEMENT OF FIBRE REINFORCED POLYMER COMPOSITE GEARS
10	4JK16ME012	MOHAMMED SUHAIL	BIO DIESEL PRODUCTION AND UTILIZATION IN CI ENGINE
11	4JK17ME407	PUNITH RAJ NAIK J	SOLAR SAIL
12	4JK16ME018	SOURABH A S	THE PRESENT AND FUTURE OF ADDITIVE MANUFACTURING IN THE AEROSPACE SECTOR
13	4JK16ME019	VARUNCHAND SUVARNA	NANO-ELECTRO MECHANICAL SYSTEMS(NEMS)
14	4JK16ME013	MUHAMMED FAIZAL	EFFECT OF PERFORMANCE EMISSION CHARACTERISTICS OF IC ENGINE WITH ADDITION OF DIFFERENT NANOPARTICLES
15	4JK17ME402	BHUSHITH B	OCEAN CURRENT TURBINE GENERATORS
16	4JK17ME405	NAVANITH SHETTY	CERAMIC BRAKES
17	4JK16ME002	ANOOP CHANDRAN K	GREEN MANUFACTURING
18	4JK16ME014	PAVAN I K	AIRLESS TYRE
19	4JK17ME403	MAHAMMAD MUFEEZ	MAGNETO RHEOLOGICAL FLUID
20	4JK16ME001	AKSHAY GEORGE	FLOATING WINDMILLS

Principal



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## OUTCOME:

- Skill Development: Acquisition of specific skills such as writing, public speaking, or technical abilities.
- Expert Insight: Exposure to industry experts and advanced topics not always covered in standard curriculum.
- Interactive Learning: Hands-on experience and practical application of knowledge.
- Networking Opportunities: Connections with professionals, peers, and potential mentors.

30. Details of of Functional MoUs and activity mapping:

NIL

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.

B. Weaknesses:

- Resource Limitations:** Possible constraints in funding or resources for advanced projects or facility upgrades.
- Limited Research Grants:** Potential lack of funding for extensive research projects or faculty development.
- Student-to-Faculty Ratio:** A high student-to-faculty ratio may limit personalized attention and mentoring.
- Curriculum Gaps:** Potential gaps in the curriculum regarding emerging technologies or industry trends.

C. Opportunities:

- Industry Collaborations:** Expanding partnerships with industries for research, internships, and joint projects.
- Emerging Technologies:** Integrating new technologies such as robotics, AI, and sustainable engineering into the curriculum.
- Grants and Funding:** Opportunities to secure research grants or funding from government and private sectors.
- Online Learning:** Developing online or hybrid courses to reach a broader audience and offer flexibility.



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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

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

*By D*  
(Dr Rajuk Ran)  
Name and Signature of the HOD



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## Observations of the Academic Audit Team:

1. Research Activity in the department need to be improved.
2. Student participation in extra curricular activities should be improved.

## Academic Audit Team:

Sl. No.	Name of the Expert	Designation	Affiliation	Signature
1	Dr. Rajesh Rai	Chairman	AJIET	
2	Shri. S. S. Shetty	Member ext dept (CS)	AJIET	
3	Dr Jose Alex	member Ext College	SIT, valachal	

IQAC COORDINATOR

PRINCIPAL  
Principal  
A.J. Institute of Engineering & Technology  
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