SRI CHANDRASEKHARENDRA SARASWATHI
VISWA MAHAVIDYALAYA
Deemed to be University (Accredited with "A" grade by NAAC)
Enathur, Kanchipuram - 631 561. Tamilnadu, India www.kanchiuniv.ac.in

Electronics & Instrumentation Engineering

DEPARTMENT PROFILE

2023 - 2024

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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

DEPARTMENT PROFILE 2023 - 2024

CONTENTS

1. ABOUT THE DEPARTMENT

The Electronics and Instrumentation Engineering department was established in the year 2009 and the first batch of students graduated from the department in the year 2013. Mechatronics course was started in the year 2014 under the umbrella of EIE in SCSVMV. These engineers carry out the task of measuring, installing, developing, maintaining and designing various instruments used in the industry. With computer aided processes and automation techniques, these engineers formulate ways to control these systems. The EIE department equips students with knowledge of instruments and there management.

Programs

The department offers Undergraduate, Postgraduate and Doctoral Course in the field of Instrumentation. The highlight of B.E program is the dual-purpose approach of learning key concepts and engaging them practical experience. Students are trained to plan, design, install, operate service and maintain complex instruments and also to make sure that high quality is maintained. Nearly 36 students are admitted each year into the Bachelors Programme through common entrance exam and marks obtained in their qualifying examination. The B.E programme is an eight semester (four year) course, the curriculum being updated regularly with inputs from industries and reputed educational institutions. The department with its state of the art laboratories and young and dynamic faculty is involved in providing quality education at UG level.

The department consists of nine faculty members who have experience in teaching, industry and research. This department has an experienced and energetic team of experts in field like measurements and instruments, control systems, process control, embedded systems, electronic devices, signal processing, VLSI design. A research coordination committee chaired by the Head of the department, along with two faculty members, carries out academic research in the department.

Students are encouraged to undergo industrial training during the course of their academic program in order to have practical implementation of the various concepts learnt in the classroom. The EIE department arranges industrial visits, technical seminars and workshops.

2. VISION AND MISSION

VISION

The Electronics & Instrumentation Engineering Departments aims to impart excellence in academic standards to suit the modern industries by providing accessible and relevant programs that are directly applicable to the dynamic environment in which our students will work, live and contribute.

MISSION

To produce high profile future Electronics & Instrumentation experts, endowed with high quality knowledge of automation and other allied Electronics & Instrumentation, sufficiently capable of proving their professional mettle in the present-day competitive world with confidence. To stimulate the academic environment for promotion of quality in Electronics & Instrumentation Engineering Department. To advance knowledge, create passion for learning, foster innovation and nurture talents towards serving the society and the country.

3. OBJECTIVES

- **Curriculum**

The Aim of the department is grounding in fundamentals among the students with latest trends in the industry by creating new lab such as virtual instrumentation lab, where they can stimulate a real industry situation in virtual model and study the working process. The Process Control lab will make the students to have clear understanding about process stations, flow meters, and control valve design. This is accomplished through course and laboratory practicals and students are required to choose their own elective during final year to specialize in their chosen area.

- **Co Curriculum**

Students are taken to various industries to know practical ideas about the field of Robotics and Instrumentation Engineering. Instrumentation branch also deals with measurements and control. The department mainly focus on areas of Microprocessors, Microcontrollers, Robotics, Biomedical, Transducer and measurements, Virtual Instrumentation, Programmable Logic Controllers, MEMS etc., All the labs are well equipped with state of the art equipment and latest software packages like MATLAB, PLC, Xlinx, Multisim , SageMath , Scilab and LAB VIEW for the accessibility of students.

The department conducts career development programs with objective of improving the communication skills, personality development and tips for facing the interview, technical writing etc., by inviting external experts for lectures. As a result of this effect, the students are faring well in the campus interviews and University examinations. The department monitors the students' progress regularly and providing necessary counseling at various levels towards achieving better results.

- **Extra Curriculum**

The students are encouraged to take active part in cultural programs, seminars, paper presentations, quiz programs, sports etc., The department also understands the importance of practical exposure to the students and periodically arranges industrial visits and Inplant/Internship training in industries under various domains. The department also conducted a every year **"AAVISHKAR"** the National level Symposium is conducted. Workshops, Seminar, Webinar, FDP and Guest lecturers are arranged to improve the skills of the students in various domains. During September 15th, **Engineers' day** is celebrated every year by inviting industrial experts to share their experience and ideas. **"NEXUSFUSION 2024"** the National level Symposium is conducted

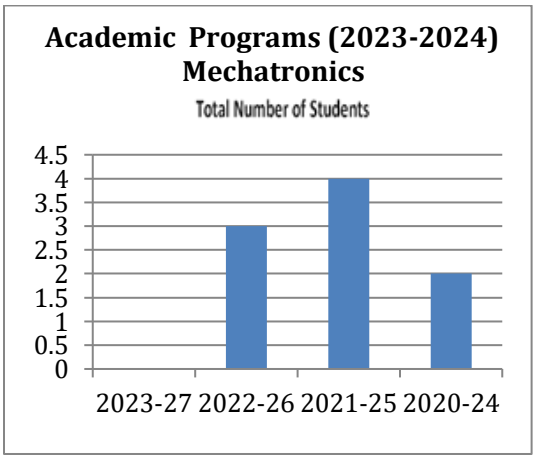
- **Program Educational Objectives**

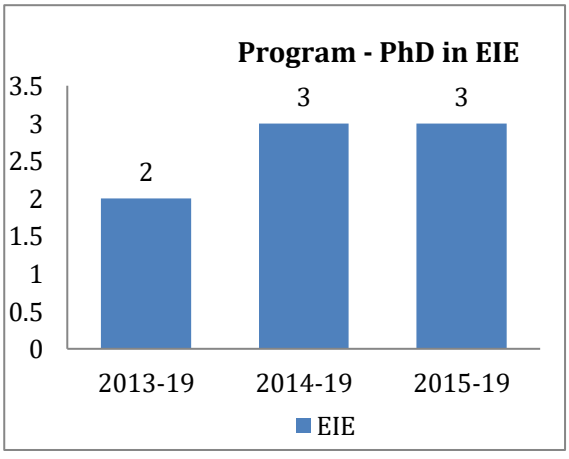
1. To design, develop product and application with multidisciplinary engineering expertise.
2. To use latest engineering tools to enhance the productivity in the field of automation.
3. Complex problem solving skill to innovate and research by applying multi-disciplinary environment (mechanical, electrical, instrumentation and computer knowledge).
4. Provide professional, social and ethical responsibilities.
5. To pursue higher education.

4. ACADEMIC PROGRAMS (2023-2024)

PROGRAM	SANCTIONED STRENGTH	YEAR	BATCH	TOTAL NUMBER OF STUDENTS STRENGTH
UG EIE	NIL	I	2023-27	Nil
		II	2022-26	Nil
		III	2021-25	Nil
		IV	2020-24	Nil
UG MECHATRONICS	09	I	2023-27	Nil
		II	2022-26	03
		III	2021-25	04
		IV	2020-24	02
RESEARCH (Ph.D in EIE dept)	08	-	2013-19	02
			2014-19	03
			2015-19	03

ACADEMIC PROGRAMS (2023-2024)





5.CURRICULUM

Department of Electronics and Instrumentation Engineering Courses Offered	
Bachelor of Engineering	1. Electronics and Instrumentation Engineering 2. Mechatronics Engineering

COURSE	LABORATORY	ELECTIVE SUBJECTS
Electronics and Instrumentation Engineering	• Electronic Devices and Circuits Lab • Microprocessor and Microcontroller Lab • Analog and digital communication Lab • Transducer and Industrial Instruments Lab • Virtual Instrumentation Lab/Computer Control Lab • Industrial Process Control Lab	• Analog Communication • Power Plant Instrumentation • Analytical Instrumentation • Fiber optics and Laser Instrumentation • Robotics and Automation • Advanced Control System • Digital Communication • Embedded Systems • Programmable Logic Controller • Wireless Sensor Network • Neural Network and Fuzzy Logic Network • Virtual Instrumentation • Computer Aided Instrumentation • Instrumentation and control in Iron and Steel Industries • MEMS and Nano Technology • Instrumentation and control in Petro Chemical Industries • Instrumentation and control in Food Processing • Nuclear Instrumentation • Machine Vision • Aircraft Instrumentation • Bio Medical Instrumentation

COURSE	LABORATORY	ELECTIVE SUBJECTS
Mechatronics Engineering	• Electronic Devices and Circuits Lab • Microprocessor and Microcontroller Lab • Analog and digital communication Lab • Transducer and Industrial Instruments Lab • Virtual Instrumentation Lab/Computer Control Lab • Industrial Process Control Lab	• Theory of Machines • Metrology and Measurements • Refrigeration and AirConditioning • Internal Combustion Engines • Machine Design • Finite Element Analysis • Design of Jigs and Fixtures • Rapid Manufacturing Technology • CIM • Process Planning and Cost Estimation • Mechanical Vibration and noise control • Machine Vision • Autotronics • Design of Mechatronics Systems

BIRDS EYE VIEW – EIE CURRICULUM

Electronics and Instrumentation Engineering – 2018 Regulation								
Year	**First Year**		**Second Year**		**Third Year**		**Fourth Year**	
	Semester I	**Semester II**	**Semester III**	**Semester IV**	**Semester V**	**Semester VI**	**Semester VII**	**Semester VIII**
Theory	English	M-2***	M-3***	Digital Signal Processing	PEC 1**	PEC 2**	Robotics and Automation	PEC 6**
	M-1***	Engg. Chemistry	Electronic Devices and Circuits	Industrial Instrumentation	OEC 1*	OEC 2*	PEC 3**	PEC 7**
	Engg. Physics	Basic Electrical Engineering	Signals and Systems	Principles of Communication	Control System	PLC and Data Acquistion Systems	PEC 4**	OEC 4**
	Programming for Problem Solving		Electrical Measurements	Thermodynamics	Process Control Instrumentation	Principle of Management and Professional Ethics	PEC 5**	
			Sensors and Actuator	Linear Integrated Circuits	Power Electronics and Industrial Drives	Microprocessors & Microcontrollers	OEC 3*	
			Object Oriented Programming Using C++	Digital Electronics	Power Plant Instrumentation	Industrial Chemical Process		

Lab	Physics Lab	Chemistry Lab	Electronic Devices and Circuits Lab	Linear Integrated Circuits & Digital Electronics Lab	Control System Lab	Microprocessor and Microcontroller Lab	Internship and Industrial Visit	
	Programming for Problem Solving Lab	Basic Electrical Engineering Lab	Electrical Measurements Lab	Thermal Engineering Lab	Power Electronics and Industrial Drives Lab	Virtual Instrumentation Lab	Project Work Phase –I	Project Work Phase –II
	Workshop/ Manufacturing Practices	Engineering Graphics & Design	Object Oriented Programming Using C++ Lab	Transducer and Industrial Instruments Lab	Industrial and Process Control Lab	PLC Lab	Instrumentation System Design Lab	

***OEC – Open Elective Course **PEC – Professional Elective Course ***M -Mathematics**

BIRDS EYE VIEW –CURRICULUM

Mechatronics Engineering– 2018 Regulation								
Year	**First Year**		**Second Year**		**Third Year**		**Fourth Year**	
	Semester I	**Semester II**	**Semester III**	**Semester IV**	**Semester V**	**Semester VI**	**Semester VII**	**Semester VIII**
Theory	English	M-II***	M-III***	Strength of Materials and Fluid Mechanics	PEC I**	PEC II**	Robotics & Automation	PEC VI**
	M-I***	Engineering Chemistry	Electronic Devices and Circuits	Industrial Instrumentation	OEC I*	OEC II*	PEC III**	PEC VII**
	Engineering Physics	Basic Electrical Engineering	Engineering Mechanics	Materials Engineering	Control Systems	Principles of Management and Professional Ethics	PEC IV**	OEC IV*
	Programming for Problem Solving	Environmental Sciences and Engineering	Manufacturing Technology for Mechatronics	Thermodynamics	Analytical Instrumentation	Microprocessors and Microcontrollers	PEC V**	
			Sensors & Actuators	Linear Integrated Circuits	Fluid Power Systems	PLC & Data Acquisition System	OEC III*	
			Object Oriented Programming Using C++	Digital Electronics	Power Electronics and Industrial Drives	CAD & CAM	Robotics Automation & Process control Lab	
Lab	Physics Lab	Chemistry Lab	Electronic Devices and Circuits Lab	Linear Integrated Circuits & Digital Electronics Lab	Fluid Power Control Lab	Microprocessors and Microcontrollers Lab	Internship and Industrial Visit	
	Programming for Problem Solving Lab	Basic Electrical Engineering Lab	Manufacturing Process Lab	Thermal Engineering Lab	Power Electronics and Industrial Drives Lab	CAD & CAM Lab	Project Phase I	Project Phase II
	Workshop/ Manufacturing Practices	Engineering Graphics & Design	Object Oriented Programming Using C++ LAB	Strength of Materials and Fluid Mechanics Lab	Machine Drawing Lab	PLC & Virtual Instrumentation Lab		

***OEC – Open Elective Course **PEC – Professional Elective Course ***M –Mathematics**

B.E- EIE (FULL TIME) - CURRICULUM

(For candidates admitted during the year 2018 onwards)

Semester Wise Structure of Curriculum

[L = Lecture, T = Tutorial, P = Practical & C = Credit]
[IA = Internal Assessment, EA = External Assessment & TM = Total Mark]

Semester I (First year)

SL.No	Category	Code	Course Title	L	T	P	C	IA	EA	TA
1.	HSMC	CHSEN18T10	English#	2	1	-	3	40	60	100
2.	BSC	CBSMAA8T20	Mathematics I(Calculus & Differential Equations) #	3	1	-	4	40	60	100
3.	BSC	CBSPH18T30	Engineering Physics#	3	-	-	3	40	60	100
4.	ESC	CESCS18T40	Programming for Problem Solving	2	1	-	3	40	60	100
5.	BSC	CBSPH18P50	Physics Lab#	-	-	3	2	40	60	100
6.	ESC	CESCS18P60	Programming for Problem Solving Lab	-	-	3	2	40	60	100
7.	ESC	CESME18P70	Workshop/Manufacturing Practices$	-	-	3	2	40	60	100

Science and Humanities $Mechanical Engineering **Total Credits: 19**

Semester II (First year)

SL.No	Category	Code	Course Title	L	T	P	C	IA	EA	TA
1.	BSC	CBSMAF8T10	Mathematics – II (Linear Algebra, Transform Calculus and Numerical methods) #	3	1	-	4	40	60	100
2.	BSC	CBSCH18T20	Engineering Chemistry#	3	-	-	3	40	60	100
3.	ESC	CESEE18T30	Basic Electrical Engineering@	3	-	-	3	40	60	100
4.	MC*	CMCCH28T50	Environmental Sciences and Engineering*#	2	0	0	2*	40	60	100
5.	BSC	CBSCH18P60	Chemistry Laboratory#	-	-	3	2	40	60	100
6.	ESC	CESEE18P70	Basic Electrical Engineering Lab	-	-	3	2	40	60	100
7.	ESC	CESME18P50	Engineering Graphics & Design$	-	-	3	3	40	60	100

Science and Humanities @ Electrical Engineering $Mechanical Engineering **Total Credits: 17+2***

Semester III (Second year)

SL.No	Category	Code	Course Title	L	T	P	C	IA	EA	TA
1.	BSC	BEIF183T10	Mathematics –III (Probability and Statistics) #	3	1	-	4	40	60	100
2.	PCC	BEIF183T30	Electronic Devices and Circuits	3	0	-	3	40	60	100
3.	PCC	BEIF183T40	Signals and Systems	2	1	-	3	40	60	100
4.	PCC	BEIF183T50	Electrical Measurements@	3	0	-	3	40	60	100
5.	PCC	BEIF183T60	Sensors and Actuator	3	0	-	3	40	60	100
6.	ESC	BEIF183T20	Object Oriented Programming Using C++&	3	0	-	3	40	60	100
7.	MC*	BETF183MC2	Sanskrit & Indian Culture*	2	-	-	2*	40	60	100
8.	MC*	BETF183MC3	Soft Skill**-I	-	-	-	1*	40	60	100
9.	PCC	BEIF183P80	Electronic Devices and Circuits Lab	-	-	3	2	40	60	100
10.	PCC	BEIF183P90	Electrical Measurements Lab@	-	-	3	2	40	60	100
11.	ESC	BEIF183P70	Object Oriented Programming Using C++ Lab&	-	-	3	2	40	60	100

Science and Humanities @ Electrical Engineering &Computer Engineering **Total Credits: 25+3***

Semester IV (Second year)

SL.No	Category	Code	Course Title	L	T	P	C	IA	EA	TA
1.	PCC	BEIF184T10	Digital Signal Processing	2	1	-	3	40	60	100
2.	PCC	BEIF184T20	Industrial Instrumentation	3	0	-	3	40	60	100
3.	PCC	BEIF184T30	Principles of Commnication	3	0	-	3	40	60	100
4.	ESC	BEIF184T40	Thermodynamics$	3	0	-	3	40	60	100
5.	PCC	BEIF184T50	Linear Integrated Circuits	3	0	-	3	40	60	100
6.	PCC	BEIF184T60	Digital Electronics	3	0	-	3	40	60	100
7.	MC*	BETF184MC4	Soft Skill**-II	-	-	-	1*	40	60	100
8.	PCC	BEIF184P70	Linear Integrated Circuits & Digital Electronics Lab	-	-	3	2	40	60	100
9.	ESC	BEIF184P80	Thermal Engineering Lab$	-	-	3	2	40	60	100
10.	PCC	BEIF184P90	Transducer and Industrial Instruments Lab	-	-	3	2	40	60	100

$Mechanical Engineering **Total Credits: 24+1***

Semester V (Third year)

SL.No	Category	Code	Course Title	L	T	P	C	IA	EA	TA
1.	PEC	BEIF185E	Professional Elective – I	3	0	-	3	40	60	100
2.	OEC	BEIF185OE	Open Elective –I	3	0	-	3	40	60	100
3.	PCC	BEIF185T10	Control System	2	1	-	3	40	60	100
4.	PCC	BEIF185T20	Process Control Instrumentation	2	1	-	3	40	60	100
5.	PCC	BEIF185T30	Power Electronics and Industrial Drives	3	0	-	3	40	60	100
6.	PCC	BEIF185T40	Power Plant Instrumentation	3	0	-	3	40	60	100
7.	Optional OEC*	BEIF18OO	Japanese Primer/French Primer/ Germen Primer	-	-	1	2*	40	60	100
8.	MC*	BETF185MC05	Soft Skill*-III	-	-	-	1*	40	60	100
9.	PCC	BEIF185P60	Control System Lab	-	-	3	2	40	60	100
10.	PCC	BEIF185P70	Power Electronics and Industrial Drives Lab	-	-	3	2	40	60	100
11.	PCC	BEIF185P80	Industrial and Process Control Lab	-	-	3	2	40	60	100

*Not for CGPA **Total Credits: 24+3***

Semester VI (Third year)

SL.No	Category	Code	Course Title	L	T	P	C	IA	EA	TA
1.	PEC	BEIF186E	Professional Elective – II	3	0	-	3	40	60	100
2.	OEC	BEIF186OE	Open Elective –II	3	0	-	3	40	60	100
3.	PCC	BEIF186T10	PLC & Data Acquisition System	3	0	-	3	40	60	100
4.	HSMC	BEIF186T30	Principle of Management and Professional Ethics	3	0	-	3	40	60	100
5.	PCC	BEIF186T20	Microrprocessor and Microcontroller	3	0	-	3	40	60	100
6.	PCC	BEIF186T40	Industrial Chemical Process	3	0	-	3	40	60	100
7.	Optional OEC*	BEIF18OOE	Japanese Primer/French Primer/ Germen Primer	-	-	1	2*	40	60	100
8.	MC*	BETF18MC06	Soft Skill**-IV	-	-	-	1*	40	60	100
9.	PCC	BEIF186P70	Microrprocessor and Microcontroller Lab	-	-	3	2	40	60	100
10.	PCC	BEIF186P80	Virtual Instrumentation Lab	-	-	3	2	40	60	100
11.	PCC	BEIF186P90	PLC Lab	-	-	-	2	40	60	100

***Not for CGPA** Total Credits: 21+3*

Semester VII (Fourth year)

SL.No	Category	Code	Course Title	L	T	P	C	IA	EA	TA
1.	PCC	BEIF187T10	Robotics and Automation	3	0	-	3	40	60	100
2.	PEC	BEIF187E	Professional Elective –III	3	0	-	3	40	60	100
3.	PEC	BEIF187E	Professional Elective –IV	3	0	-	3	40	60	100
4.	PEC	BEIF187E	Professional Elective –V	3	0	-	3	40	60	100
5.	OEC	BEIF187OE	Open Elective –III	3	0	-	3	40	60	100
6.		BEIF187P60	Internship and Industrial visit ***	-	-	-	2	40	60	100
7.		BEIF187Z70	Project Work Phase –I	-	-	-	2	40	60	100
8.	PCC	BEIF187P80	Instrumentation System Design Lab	-		3	2	40	60	100

******Industrial visit (minimum 5 Visits from I to VI sem) and minimum 5 weeks Internship should be carried out.** Total Credits: 22

Semester VIII (Fourth year)

SL.No	Category	Code	Course Title	L	T	P	C	IA	EA	TA
1	PEC	BEIF188E	Professional Elective –VI	3	0	-	3	40	60	100
2.	PEC	BEIF188E	Professional Elective – VII	3	0	-	3	40	60	100
3.	OEC	BEIF188OE	Open Elective –IV	3	0	-	3	40	60	100
4.		BEIF188Z40	Project Work Phase –II	-	-	-	10	40	60	100

Total Credits: 19

CREDIT ANALYSIS

	I	II	III	IV	V	VI	VII	VIII	TOTAL
HSMC	3					3			**6**
BSC	9	9	4						**22**
ESC	7	8	5	5					**25**
PCC			16	19	18	15	5		**73**
PEC					3	3	9	6	**21**
OEC					3	3	3	3	**12**
MC		2*	3*	1*	3*	3*		-	**12***
PROJECT							2	10	**12**
Internship & Industrial Visit							2		**2**
	19	**17+2***	**25+3***	**24+1***	**24+3***	**24+3***	**21**	**19**	**173**

***Not included in total credits**

LIST OF PROFESSIONAL ELECTIVES

Professional Elective Course -1 **SEMESTER 5**

S.No	Sub.Code	Subject Name
1	BEIF185EA0	Analytical Instrumentation
2	BEIF185EB0	Instrumentation and Control in Iron and Steel Industries
3	BEIF185EC0	Digital Instrumentation
4	BEIF185ED0	Digital Image Processing.

Professional Elective Course -2 **SEMESTERS 6**

S.No	Sub.Code	Subject Name
1	BEIF186EE0	Virtual Instrumentation
2	BEIF186EF0	Advanced Control Systems
3	BEIF186EG0	Instrumentation and Control in Paper and Pulp Industries
4	BEIF186EH0	Energy Management and Industrial Safety

Professional Elective Course -3 **SEMESTER 7**

S.No	Sub.Code	Subject Name
1	BEIF187EI0	Embedded Systems
2	BEIF187EJ0	Neural Network and Fuzzy Logic
3	BEIF187EK0	Instrumentation and Control in Food Processing Industries
4	BEIF187EL0	Optimal Control Systems

Professional Elective Course -4 **SEMESTER 7**

S.No	Sub.Code	Subject Name
1	BEIF187EM0	Computer Control of Process
2	BEIF187EN0	Process Equipment Design
3	BEIF187EO0	Mechatronics
4	BEIF187EP0	Non Linear Control Systems

Professional Elective Course -5 **SEMESTER 7**

S.No	Sub.Code	Subject Name
1	BEIF187EQ0	Aircraft Instrumentation
2	BEIF187ER0	Engineering Economics
3	BEIF187ES0	Fiber Optics and Laser Instrumentation
4	BEIF187ET0	Digital Control Systems

Professional Elective Course -6 **SEMESTER 8**

S.No	Sub.Code	Subject Name
1	BEIF188EU0	Automotive Instrumentation
2	BEIF188EV0	VLSI Design
3	BEIF188EW0	Autotronics
4	BEIF188EX0	Real Time Embedded System Design

Professional Elective Course -7 **SEMESTER 8**

S.No	Sub.Code	Subject Name
1	BEIF188EY0	Biomedical Instrumentation
2	BEIF188EZ0	Machine Vision
3	BEIF188EA1	MEMS
4	BEIF188EB1	Wireless Communication

SEMESTER BASED OPEN ELECTIVES

Open Elective Course -1 **SEMESTER 5**

S.No	Sub.Code	Subject Name
1	BEIF185OEB	Green and Smart Buildings
2	BEIF185OEC	Operational Research
3	BEIF185OEA	Electric Hybrid Vehicle Technology
4	BEIF185OED	Material Science

Open Elective Course -2 **SEMESTER 6**

S.No	Sub.Code	Subject Name
1	BEIF186OEE	Radar and Navigation
2	BEIF186OEF	Human Resources Management
3	BEIF186OEG	Waste Water Management
4	BEIF186OEH	Computer Aided Design

Open Elective Course -3 **SEMESTER 7**

S.No	Sub.Code	Subject Name
1	BEIF187OEI	Data Communication and Network Systems
2	BEIF187OEJ	Energy Harvesting Technology
3	BEIF187OEK	Disaster Management
4	BEIF187OEL	Battery Technology

Open Elective Course -4 **SEMESTER 8**

S.No	Sub.Code	Subject Name
1	BEIF188OEL	Data Compression Techniques
2	BEIF188OEM	Satellite Communication
3	BEIF188OEN	Entrepreneurship Development
4	BEIF188OEO	IoT in Automation

Optional Open Elective Course - Foreign Language

S.No	Sub.Code	Subject Name
1	BEIF18OOEA	Japanese Primer
2	BEIF18OOEB	French Primer
3	BEIF18OOEC	Germen Primer

SEMESTERWISE STRUCTURE OF CURRICULUM
2018 ONWARDS
(L- Lecture, T- Tutorial, P- Practical and C-Credit)

COURSE: Mechatronics Engineering

I Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	HSMC	English	3	1	-	3
2	BSC	Mathematics I (Calculus & Differential Equations)	3	1	-	4
3	BSC	Engineering Physics	3	1	-	3
4	ESC	Programming for Problem Solving	3	1	-	3
5	BSC	Physics Lab	-	-	3	2
6	ESC	Programming for Problem Solving Lab	-	-	3	2
7	ESC	Workshop/Manufacturing Practices	-	-	3	2
		TOTAL	12	4	9	19

II Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	BSC	Mathematics II (Linear Algebra, Transform Calculus and Numerical methods)	3	1	-	4
2	BSC	Engineering Chemistry	3	1	-	3
3	ESC	Basic Electrical Engineering	3	1	-	3
4	BSC	Chemistry Lab	-	-	3	2
5	ESC	Basic Electrical Engineering Lab	-	-	3	2
6	ESC	Engineering Graphics and Design	-	-	3	3
7	MC*	Environmental Science and Engineering	-	-	-	2*
		TOTAL	9	3	9	17+2*

III Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	BSC	Mathematics III (Probability and Statistics)	3	1	-	4
2	PCC	Electronic Devices and Circuits	3	-	-	3
3	PCC	Engineering Mechanics	2	1	-	3
4	PCC	Manufacturing Technology for Mechatronics	3	-	-	3
5	PCC	Sensors and Actuators	3	-	-	3
6	ESC	Object Oriented Programming using C++	3	-	-	3
7	MC*	Sanskrit and Indian Culture	2	-	-	2*
8	PCC	Electronic Devices and Circuits Lab	-	-	3	2
9	PCC	Manufacturing Process Lab	-	-	3	2
10	ESC	Object Oriented Programming using C++ Lab	-	-	3	2
11	MC*	Soft Skills 1	-	-	1	1*
		TOTAL	19	2	10	25+3*

* Not for CGPA

IV **Semester**

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PCC	Strength of Materials and Fluid Mechanics	3	-	-	3
2	ESC	Industrial Instrumentation	3	-	-	3
3	PCC	Materials Engineering	3	-	-	3
4	PCC	Thermodynamics	3	-	-	3
5	PCC	Linear Integrated Circuits	3	-	-	3
6	PCC	Digital Electronics	3	-	-	3

7	PCC	Linear Integrated Circuits and Digital Electronics Lab	-	-	3	2
8	PCC	Thermal Engineering Lab	-	-	3	2
9	PCC	Strength of Materials and Fluid Mechanics Lab	-	-	3	2
10	MC*	Soft Skills -II	-	-	1	1*
		TOTAL	18	-	10	24+1*

* Not for CGPA

V Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PEC	Professional Elective I	3	-	-	3
2	OEC	Open Elective I	3	-	-	3
3	PCC	Control Systems	2	1	-	3
4	ESC	Analytical Instrumentation	2	1	-	3
5	PCC	Fluid Power Systems	3	-	-	3
6	PCC	Power Electronics and Industrial Drives	3	-	-	3
7	PCC	Fluid Power Control Lab	-	-	3	2
8	PCC	Power Electronics and Industrial Drives Lab	-	-	3	2
9	PCC	Machine Drawing Lab	-	-	3	2
10	MC*	Soft Skills -III	-	-	1	1*
		TOTAL	16	2	10	24+1*

* Not for CGPA

VI Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PEC	Professional Elective II	3	-	-	3
2	OEC	Open Elective II	3	-	-	3
3	HSMC	Principles of Management and Professional Ethics	3	-	-	3
4	PCC	Microprocessors and Microcontrollers	3	-	-	3
5	PCC	PLC & Data Acquisition System	3	-	-	3
6	PCC	CAD / CAM	2	1	-	3
7	PCC	Microprocessors and Microcontrollers Lab	-	-	3	2
8	PCC	CAD / CAM Lab	-	-	3	2
9	PCC	PLC & Virtual Instrumentation Lab	-	-	3	2
10	Optional OEC*	French Primer / Japanese Primer / German Primer	-	-	1	2*
11	MC*	Soft Skills - IV	-	-	1	1*
		TOTAL	17	1	10	2+3*

* Not for CGPA

VII Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PCC	Robotics & Automation	3	-	-	3
2	PEC	Professional Elective III	3	-	-	3
3	PEC	Professional Elective IV	3	-	-	3
4	PEC	Professional Elective V	3	-	-	3
5	OEC	Open Elective III	3	-	-	3

6	PCC	Robotics Automation & Process control Lab	-	-	3	2
7		Internship and Industrial Visit **	-	-	-	2
8		Project Work Phase -1	-	-	-	2
		TOTAL	15	-	3	21

** Industrial visit (minimum 5 visits from I to VI sem) and minimum 5 weeks Internship should be carried out

VIII Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PEC	Professional Elective VI	3	-	-	3
2	PEC	Professional Elective VII	3	-	-	3
3	OEC	Open Elective IV	3	-	-	3
4		Project Work Phase -II	-	-	-	10
		TOTAL	9	-	-	19

- BSC – Basic Science Course
- ESC - Engineering Science Course
- HSMC – Humanities, Social Science including Management Course
- OEC – Open Elective Course
- PEC – Professional Elective Course
- PCC – Professional Core Course
- MC * - Mandatory Course (Credit Not included for CGPA)

PROFESSIONAL ELECTIVE COURSES

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PEC I (V Sem)	Theory of Machines	3	-	-	3
2		Metrology and quality control	3	-	-	3
3		Refrigeration and Air Conditioning	3	-	-	3
4		Internal Combustion Engines	3	-	-	3
5	PEC II (VI Sem)	Virtual Instrumentation	3	-	-	3
6		Energy Management and Industrial Safety	3	-	-	3
7		Process Control Instrumentation	3	-	-	3
8		Principles of Communication	3	-	-	3
9	PEC III (VII Sem)	Embedded Systems	3	-	-	3
10		Power Plant Instrumentation	3	-	-	3
11		Neural Networks and Fuzzy Logic Control	3	-	-	3
12		Battery Technology	3	-	-	3
13	PEC IV (VII Sem)	Machine Design	3	-	-	3
14		Finite Element Analysis	3	-	-	3
15		Design of Jigs and Fixtures	3	-	-	3
16		Total Quality Management				
17	PEC V (VII Sem)	Rapid Manufacturing Technologies	3	-	-	3
18		Computer Integrated Manufacturing CIM	3	-	-	3
19		Process Planning and Cost Estimation	3	-	-	3
20		Mechanical Vibration and noise control	3	-	-	3
21	PEC VI (VIII Sem)	Machine Vision	3	-	-	3
22		Autotronics	3	-	-	3
23		Design of Mechatronics Systems	3	-	-	3
24		Flexible manufacturing systems	3	-	-	3
25	PEC VII (VIII Sem)	Micro Electro Mechanical Systems (MEMS)	3	-	-	3
26		VLSI Design	3	-	-	3
27		IOT in Automation	3	-	-	3
28		Digital control System	3	-	-	3

OPEN ELECTIVE COURSES

S.No		Name of the Subject	L	T	P	C
1	**OEC I (V Sem)**	Electrical and Mechanical Measurements	3	-	-	3
2		Operation Research	3	-	-	3
3		Green and Smart Buildings	3	-	-	3
4		Electric Hybrid Vehicle Technology	3	-	-	3
5	**OEC II (VI Sem)**	Biomedical Instrumentation	3	-	-	3
6		Human Resource Management	3	-	-	3
7		Waste water Engineering	3	-	-	3
8		Radar and Navigation	3	-	-	3
9	**OEC III (VII Sem)**	Aircraft Instrumentation	3	-	-	3
10		Energy Harvesting Technologies	3	-	-	3
11		Disaster Management	3	-	-	3
12		Data Communication and network Systems	3	-	-	3
13	**OEC IV (VIII Sem)**	Nano Technology	3	-	-	3
14		Big Data Analytics	3	-	-	3
15		Satellite Communication	3	-	-	3
16		Data Compression Techniques	3	-	-	3
17		Entrepreneurship Development	3	-	-	3
18	**Optional OEC - Foreign Language**	French Primer	-	-	1	2
19		Japanese Primer	-	-	1	2
20		German Primer	-	-	1	2

6. ADMISSION DETAILS (2023-2024)

EIE

NIL

ADMISSION DETAILS 2023-2024

I YEAR MECHATRONICS (2023-2027 BATCH)

NIL

II YEAR MECHATRONICS (2022-2026 BATCH)

S.NO	REG.NO	NAME	GENDER	REGION - WIDE
1	11229H001	N Tirumala Hardhik Srivatsa	Male	Telangana
2	11229H002	Sudhan G	Male	Tamil Nadu
3	11229H003	Koushik Bharadwaj Vishnubhotla	Male	Telangana

III YEAR MECHATRONICS (2021-2025 BATCH)

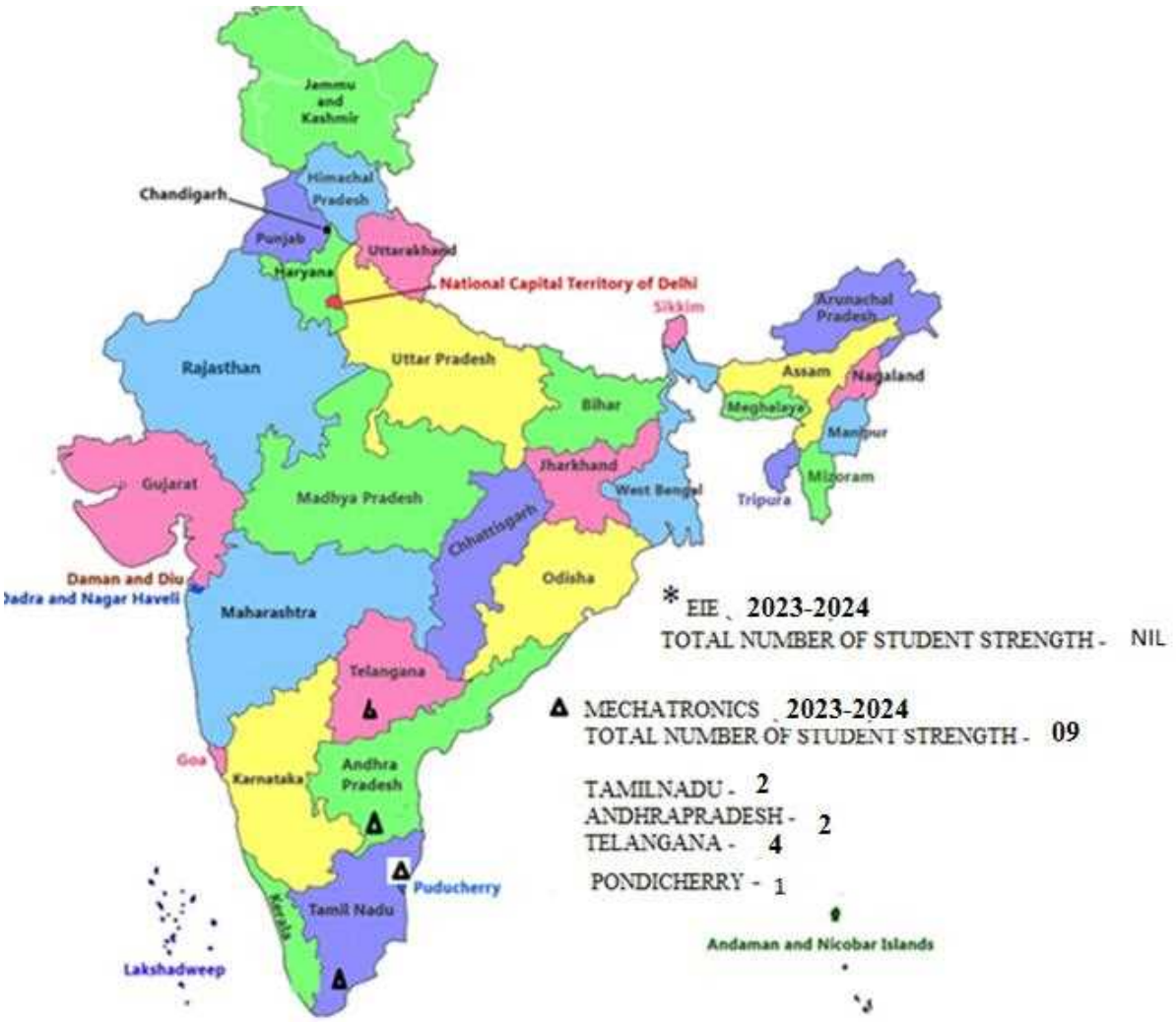
S.NO	REG.NO	NAME	GENDER	REGION - WIDE
1	11219H001	P Anantha Padmanabban	Male	Puducherry
2	11219H002	Chittaluri Sai Phanichandra	Male	Telangana
3	11219H003	Dhullipalla Datta Sai	Male	Telangana
4	11219H004	Sri Sai Shravani Voleti	Female	Andhra Pradesh

ADMISSION DETAILS 2023-2024

IV YEAR MECHATRONICS (2020-2024 BATCH)

S.NO	REG.NO	NAME	GENDER	REGION - WIDE
1	11209H001	Raghul V	Male	Tamilnadu
2	11209H002	Kudaravalli Venkata Sai Lakshman	Male	Andhra Pradesh

EIE - (In the academic year 2023-24)
(TOTAL NUMBER OF STUDENTS including I, II, III & IV Years)
EIE – NIL
MECHATRONICS – 09



7. FEES STRUCTURE (2023-2024)

REGULAR

B.E (Civil / Civil& Structural / EEE / EIE / Mechanical / Mechatronics) - Full Time

B.E (Civil / EEE / Mechanical / Mechatronics) – Full Time	
Particulars	**Amount In Rs.**
Registration / Admission Fees	5,000/-
Tuition Fee	60,000/-
Special Fees	10,000/-
Lab fees / Knowledge Facilities	5,000/-
Development fee	5,000/-
First Semester Total fee	**85,000/-**
Second Semester on wards Tuition fee 60,000/-, 7 X 60,000 (Semester two to eighth semester)	**60,000/- Per Semester**
Total fee for Four years	**5,05,000/-**

Scholarship details	**I Year Amount In Rs.**	**II Year Amount In Rs.**	**III Year Amount In Rs.**	**IV Year Amount In Rs.**
PCM 60% & above in HSC	85,000	60,000	60,000	60,000
PCM below 60% in HSC (no scholarship)	1,45,000	1,20,000	1,20,000	1,20,000

B.E (Lateral Entry)

B.E(LATERAL ENTRY)

Description	II Year Amount In Rs.	III Year Amount In Rs.	IV Year Amount In Rs.
Fee details	1,45,000	1,20,000	1,20,000

B.E(LATERAL ENTRY)

Particulars	Amount In Rs.
Registration / Admission Fees	5,000/-
Tuition Fee	60,000/-
Special Fees	10,000/-
Lab fees / Knowledge Facilities	5,000/-
Development fee	5,000/-
Third Semester Total fee	**85,000/-**
Fourth Semester on wards Tuition fee 60,000/-, 5 X 60,000 (Semester fourth to eighth semester)	**60,000/- Per Semester**
Total fee for Three years	**3,85,000/-**

Ph.D Admission

श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA

Deemed to be University u/s 3 of UGC act 1956 | Accredited with 'A' Grade by NAAC

Enathur, Kanchipuram, Tamilnadu - 631 561

www.kanchiuniv.ac.in

Ph.D. ADMISSIONS - JULY 2024 SESSION

Fee Structure

FULL TIME

Fee Structure	First Year	Second and Third Year	Fourth Year onwards
Admission Fee	Rs. 2,000	-	-
Course Fee	Rs. 3,000	Rs. 2,000	Rs. 2,000
Doctoral Committee Fee	Rs. 5,000	Rs. 5,000	-
Laboratory / Library Fee	Rs. 2,000	Rs. 2,000	Rs. 2,000
Total Fees	**Rs.12,000**	**Rs. 9,000**	**Rs. 4,000**
Other Fees			
▪ Synopsis submission : Rs.5,000 ▪ Thesis submission : Rs.15,000 ▪ Coursework examination : Rs.1,000 per paper			

PART TIME

Fee Structure	First Year	Second and Third Year	Fourth Year onwards
Admission Fee	Rs. 2,000	-	-
Course Fee	Rs. 40,000	Rs. 25,000	Rs.25,000
Doctoral Committee Fee	Rs. 15,000	Rs. 15,000	-
Laboratory / Library Fee	Rs. 2,000	Rs. 7,000	Rs. 7,000
Total Fees	**Rs. 59,000**	**Rs. 47,000**	**Rs.32,000**
Other Fees			
▪ Synopsis submission : Rs.5,000 ▪ Thesis submission : Rs.15,000 ▪ Coursework examination : Rs.1,000 per paper			

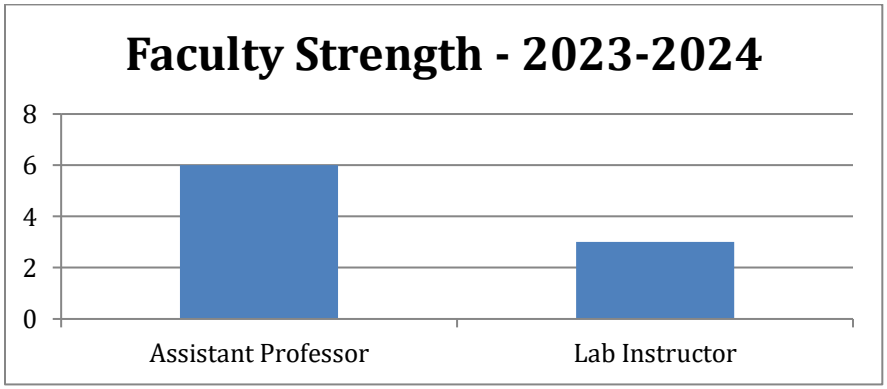
8. FACULTY POSITION – (2023-2024)

S.No	Name	Qualification	Designation
1.	Dr.T.Lakshmibai	M.E., M.C.A., Ph.D	HOD / Assistant Professor (Gr I)
2.	Dr.R.Janani	M.Tech., M.B.A., Ph.D	Assistant Professor (Gr III)
3.	Dr.K.Saraswathi	M.E., Ph.D	Assistant Professor (Gr II)
4.	Dr.T.Sundar	M.E., M.B.A., Ph.D	Assistant Professor (Gr I)
5.	Dr.K.Sugapriya	M.Tech., Ph.D	Assistant Professor (Gr I)
6.	Dr.N.C.A.Boovarahan	M.E., Ph.D	Assistant Professor (Gr I)
7.	Mr.G.Subramaniyan	B.E., M.E	Sr. Lab Instructor
8.	Mrs.V.Komala	DECE	Lab Instructor
9.	Mr.K.Vinayagamoorthy	DECE	Lab Instructor

2023-2024

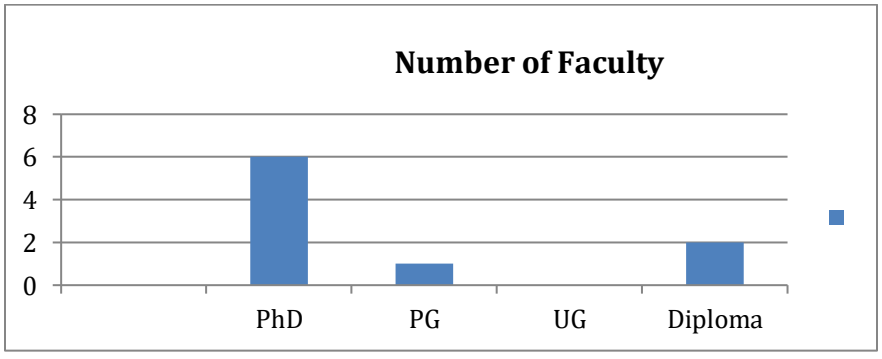
Designation

Designation	Professor	Associate Professor	Assistant Professor	Lab Instructor
Faculty strength	-	-	6	3



Qualification

Qualification	PhD	PG	UG	Diploma
Number of Faculty	6	1	-	2



9. FACULTY PROFILE

Dr. T. Lakshmibai
Assistant Professor and HOD,

Area: Communication Systems
Affiliation: Department of Electronics and Instrumentation Engineering,
Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV), Enathur, Kanchipuram.
Email: tlakshmibai@kanchiuniv.ac.in

Education

DECE	**Diploma in Electronics and Communication Engineering**	**Board of Technical Education, 1985**
MIE	Electronics and Telecommunication	Institution of Engineers(INDIA), 1990
PGDCA	Post Graduate Diploma in Computer Application	Pondicherry University, 2001
MCA	Computer Applications	Madurai Kamaraj University,2004
M.E.	Communication Systems	Anna University of Technology, Trichy, 2010
Ph.D	Wireless Communication (Cognitive Radio)	SCSVMV University, 2019

Other Details:

Course

- Power Electronics and Industrial Drives, Linear Integrated Circuits, Circuit Theory, Analog and Digital Communication, Aircraft Instrumentation. IoT in Automation.

Research Interests

- Cognitive Radio, Wireless Communication, Sensors and Actuators, Biomedical Instrumentation.

Papers Presented

International Conference

- T. Lakshmibai (2024), "Experimental study of Arduino based Automatic Vending Machine with Pushbutton Interface", in. Eurasian conference on Science and Technological Innovations - ESETI-24, jointly organized by International Scientific Research Association, Eurasian University and Research Culture Society dated 6 – 7 January 2024.

Publications in Journals

- T. Lakshmibai (2023), "Block Chain Based Identity Authentication System for a Wireless Sensor Networks", in IEEE Explorer, 2023 International Conference on Computer Communication &Informatics (ICCCI)/ 979-8-3503-4821-7/ 23/$31.00@2023 IEEE /DOI:10.1109/ ICCCI56745.2023.10128299.
- T. Lakshmibai (2023), "IOT enabled smart visible light communication using LIFI technology", in the AIP Conf. Proc 2587, 080003 (2023) Research Article/ November 21 2023, https://doi.org/10.1063/5.0150851.
- T. Lakshmibai (2024), "Experimental study of Arduino based Automatic Vending Machine with Pushbutton Interface", in the International Journal for Innovative Research in Multidisciplinary Field, ISSN: 2455-0620, DOIs:10.2015/IJIRMF/ECSETI-2024, January 2024.

Other Professional Experiences

- IEI – Institution of Engineers(India) M123226-0
- ISTE – The Indian Society for Technical Education LM11427
- UACEE – Universal Association of Computer & Electronics Engineers AM1004286
- IAENG – International Association of Engineers M145695
- IIRM – International Institute of Research in Multidisciplinary SDT-2021-115(Honorary Membership): LM115

Janani .R
Assistant Professor,
Area: Electronics and Instrumentation Engineering,
Affiliation: Department of Electronics and Instrumentation Engineering,
Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV),
Enathur, Kanchipuram.
Email: janani.rajaraman@kanchiuniv.ac.in

Education

B.E.	**Electronics and Instrumentation Engineering**	**Madras University, 2004**
M.Tech	Advanced Communication Systems	SASTRA University, 2006
MBA	Human Resources Management	Pondicherry University, 2014
Ph.D	Process Control Instrumentation	SCSVMV University

Other Details:

Course

- Process Control Instrumentation, Microprocessor and Microcontroller, Virtual Instrumentation, Control Systems, Advanced Control Systems, Digital Electronics.

Research Interests

- Controller Design for SISO and MIMO systems
- 8051 Microcontroller Programming and Arduino Programming
- Virtual Instrumentation and PLC Programming

Publications in Journals

- Optimizing Interacting Systems with a Grey Wolf Optimization Based Two Mode Controller Design– The Indian Journal of Technical Education (UGC Care List)

International Conference

- Polynomial Control Strategy for Enhanced PI Controllers in Multivariable Processes: Design And Analysis in IMPULSE 2023 at IIT Madras, held during December 2023.
- Optimizing Interacting Systems With a Grey Wolf Optimization-Based Two Mode Controller Design -2023 Department Of Electronics Engineering, Information Technology And Computer Science And Engineering, Walchand College of Engineering Sangli.

Other Professional Experiences

- Worked as Project Engineer in WIPRO Technologies from 2006 to 2008.
- IEEE – IEEE Member (Madras Section)
- Member of Universal Association of Computer and Electronics Engineers AM1003980
- IAENG – International Association of Engineers 142975.

Dr. K. Saraswathi
Assistant Professor,
Area: Electronics and Instrumentation
Affiliation: Department of Electronics and Instrumentation Engineering, Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV), Enathur, Kanchipuram.
Email: ksaraswathi@kanchiuniv.ac.in

Education

B.E.	**Electronics and Instrumentation Engineering**	**Bharathidasan University, 2003**
M.E	Electronics and Control	Sathyabhama University, 2012
Ph.D	Control Systems	SCSVMV

Other Details:
Course

- Computer control of Processes, PLC Programming, Power Plant Instrumentation, Aircraft Instrumentation, Analytical Instrumentation

Research Interests

- Control systems, Fuzzy Logic Control, Process Control.

Publications in Journals

- K. Saraswathi (Dec-2023), "Design of TITO system using ANFIS-PID controller for polymerization industry", in Measurement: Sensors (Elsevier) SCI.
- K. Saraswathi (June-2024), "PLC BASED PID CONTROLLED BATCH PROCESS", in Mukt Shabd Journal UGC Care.
- K. Saraswathi ,"IOT Based Water Level Management System", in the International Conference on MIcro-Electronics and Telecommunication Engineering (ICMETE) in SRM IST Delhi NCR Campus Ghazibad, India on 22 september to 23 september 2023
-

Other Professional Experiences

- Member of Universal Association of Computer and Electronics Engineers AM1004277.
- IAENG – International Association of Engineers M189993.
- ICSES -International Computer Science and Engineering Society #4063.

Dr.T. Sundar
Assistant Professor,
Area: Electronics and Instrumentation Engineering,
Affiliation: Department of Electronics and Instrumentation Engineering,
Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV),
Enathur, Kanchipuram.
Email: sundart@kanchiuniv.ac.in, sundar_151@yahoo.co.in

Education

DEEE	Diploma in Electrical and ElectronicsEngineering	Board of Technical Education, 2000
B.E.	Instrumentation and Control Engineering	Madras University, 2003
MBA	Master of Business Administration	Tamilnadu Open Univerity , 2007
M.E	Applied Electronics	Anna University, 2011
Ph.D	Advanced Instrumentation Systems	SCSVMV University,2019

Other Details:

Course

- Instrumentation and Control in Petrochemical Industries, Industrial Chemical Process, Automotive Instrumentation, Measurement and Instrumentation Digital Electronics.

Research Interests

- Buck Boost Converter, Solar Photovoltaic System

Publications in Journals & Conference

- T.Sundar "Linear Programming Model of Maximum Network Flow and Its Solution", Mukt Shabd Journal, Vol.12, Issue no: 12, ISSN no: 2347-3150, 2023.

- T.Sundar "A Comprehensive Review o Thermal Power Plants in India", International Journal of Multidisciplinary Innovative Research, Vol.4, Issue no: 1, ISSN no: 2583-0228, 2024.

- T.Sundar "Study of Sequencing Model Application and Solution of LPP Formulation", International Journal of Multidisciplinary Innovative Research, Vol.4, Issue no: 1, ISSN no: 2583-0228, 2024.

Other Professional Experiences

- Worked as Project Development Engineer, in ISYS Global Solution from 2003-2007.
- Worked as Lecturer in Lord Venkateswara Engineering College from 2007 to 2010.
- Member of Universal Association of Computer and Electronics Engineers AM10100054528.
- IAENG – International Association of Engineers 145755

Dr. K. Sugapriya
Assistant Professor,

Area: Electronics and Communication.
Affiliation: Department of Electronics and Instrumentation Engineering, Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV), Enathur, Kanchipuram.
Email: dhivyasuga@gmail.com,ksugapriya@kanchiuniv.ac.in.

Education

B.E.	**Electronics and Communication Engineering**	**Anna University, 2005**
M.Tech	Applied Electronics	Dr. M.G.R University, 2008
Ph.D (Pursing)	Communication Engineering	SCSVMV

Other Details:
Course

- Analog and Digital Communication Systems, Principles of Communications, Digital Signal Processing, Signals and Systems, Robotics and Automation

Research Interests

- Communication Systems, Microstrip Patch Antenna Design.

Publications in Journals

K.Sugapriya, "**Textile Horizontal T-Shaped Ultrawide Band Microstrip Patch Antenna for WBAN Applications**" IEEE Xplore , Feb 2024. (SCOPUS)

Other Professional Experiences

- Worked as a Lecturer in Priyadharshini Engineering College from 2005-2006 and 2008-2010
- IAENG – International Association of Engineers M214407

Dr. N. C. A. Boovarahan
Assistant Professor,

Area:Wireless Communication
Affiliation: Department of Electronics and Instrumentation Engineering,
Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV),
Enathur, Kanchipuram.
Email: ncaboovarahan@kanchiuniv.ac.in

Education

B.E	Electronics Communication Engineering	Anna University, 2010
M.E	Electronics & Communication Engineering	SCSVMV Deemed to be University, 2014
Ph.D	Wireless Communication	SCSVMV Deemed to be University,

Other Details:

Course

- Analog and Digital Communication Systems, Information Coding Theory, Electronic Devices and Circuits, Principles of Communications, Microprocessor and Microcontroller.

Research Interests

- Wireless Communication, Massive MIMO.

Papers Presented in Conference

- Dr N C A Boovarahan presented papers titled 'Automated air pollution monitoring system', IOT Based Smart System for Fire Detection in Forests & IOT Based Water Level Management System in the International Conference on MIcro-Electronics and Telecommunication Engineering (ICMETE) in SRM IST Delhi NCR Campus Ghazibad, India on 22 september to 23 september 2023
- Dr N C A Boovarahan Presented papers titled 'Independent Wireless Networking System for Environmental Monitoring' & Fuzzy Network Based 6G Framework for Healthcare Applications in the International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS 2023) in M P Nachimuthu M Jaganathan Engineering College Chennimalai Erode India on 18th October 2023 to 20 October 2023
- Dr N C A Boovarhan Presented a paper title 'Patch Antenna based Detection of Head Tumors' in the 2nd International Conference on Automation, computing and renewable systems (ICARS) 2023

Publications in Journals

Dr N C A Boovarahan published a journal titled 'A Review on Blockchain Technology based secure intelligent wearable devices for 6G systems' in the journal of Przeglad elecktrotechniczy

Other Professional Experiences

IAENG – International Association of Engineers

Mr. G. Subramaniyan
Senior Lab Instructor,
Area: Electronics and Communication
Affiliation: Department of Electronics and Instrumentation Engineering,
Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV),
Enathur, Kanchipuram.

Education

DECE	Diploma in Electronics and Communication Engineering	Board of Technical Education, 1992
B.E	Electronics and Communication Engineering	SCSVMV Univeristy, 2012
M.E.	Embedded Systems and Technology	Anna University, 2014
Diploma in Agriculture	Diploma in Agriculture	GuruKashi University,Punjab,2022

Other Details:
Lab

- Transducers and Industrial Instruments Lab, Power Electronics and Industrial Drives Lab, Industrial Process Lab, Programmable Logic Controller Lab

Other Professional Experiences

- Lab Instructor in Dept of ICE, Athiyamaan College of Engineering during 1997-1998.
- Lab Instructor in Dept of ICE, Arulmigu Meenakshi Amman Engineering College during 1998-2010.
- Sr.Lab Instructor in Dept of EIE, SCSVMV from 2010 to Till Date.

Mrs. V. Komala
Lab Instructor,
Area: Electronics and Communication
Affiliation: Department of Electronics and Instrumentation Engineering,
Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV),
Enathur, Kanchipuram.

Education

DECE	**Diploma in Electronics and Communication Engineering**	**Board of Technical Education, 1990**

Other Details:
Lab

- Microprocessor and Microcontroller Lab, Digital Electronics Lab, Linear Integrated circuits Lab.
- Electronics and Devices Lab

Other Professional Experiences

- DynaVision Limited, Chennai as Technical Assistant 1991-1998.
- Lab Instructor in Dept of ECE, SCSVMV 1999-2008.
- Lab Instructor in Dept of EIE, SCSVMV from 2010 to Till Date.

Mr. K. Vinayagamoorthy
Lab Instructor,
Area: Electronics and Communication
Affiliation: Department of Electronics and Instrumentation Engineering,
Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV),
Enathur, Kanchipuram.
k.vinayagamoorthy@kanchiuniv.ac.in

Education

DECE	**Diploma in Electronics and Communication Engineering**	**Board of Technical Education, 2007**

Other Details:
Lab

- Microprocessor and Microcontroller Lab, Analog and Digital Communication Lab, Digital Electronics Lab, Linear Integrated circuits Lab.
- Programmable Logic Control Lab, Virtual Instrumentation Lab, Control Systems Lab, Simulation Lab.

Other Professional Experiences

- Lab Instructor in Dept. of ECE, Arulmigu Meenakshi Amman Engineering College during 2007-2012.
- Lab Instructor in Dept of EIE, SCSVMV from 2012 to Till Date.

10.STUDENTS PROFILE

II YEAR – MECHATRONICS (2022-2026 BATCH)

S.No	Student Name Register Number Date of Birth	Father Name	Permanent Address	E-mail id	Mobile Number
1	N. Tirumala Hardhik Srivatsa 11229H001 20/06/2004	N. Pardha Saradhi Srinivas	Plot no.10, G.V.reddy colony, Opp alwal rythu 45azaar, Telangana Pin code 500010	**Register_number@kanchiuniv.ac.in	8125887999
2	Sudhan. G 11229H002 14/07/2004	Ganesan. S	No.6/11,puthu panikkan street, Woraiyur, Trichy, Tamil Nadu. Pin code 620003		9171312727
3.	Koushik Bharadwaj Vishnubhotla 11229H002 27/01/2002	Vishnubhotla Ravi Kumar	Plot No.56, Padmavathi Nagar Colony, Saheb Nagar, Vanasthalipuram Dist, Telangana. Pin Code-500070		8639989581

III YEAR - MECHATRONICS (2021-2025 BATCH)

S.No	Student Name Register Number Date of Birth	Father Name	Permanent Address	E-mail id	Mobile Number
1	P Anantha Padmanabban 11219H001 05/12/2003	P A Prasad	8 C Block Housing board Bhoomiyanpet Puducherry 605005	**Register_number@kanchiuniv.ac.in	9600331797
2	Chittaluri Sai Phanichandra 11219H002 01/07/2004	Ch.Srinivasa Rao	4-8-64,Prakash nagar,Khammam(U), Telangana		9494107497

3	Dhullipalla Datta Sai 11219H003 12/09/2003	D.Srinivas	11-2-471/2,sevenhills sadan,F.no.101,Namala gundu,Sitaphalmandi,sec-Bad-61,Telangana		9849741370
4	Sri Sai Shravani Voleti 11219H004 06/04/2004	V.Sudhakar	49-20-7/2/6 7f 401 Lakshmi Ramaneeyam,Lalitha Nagar,Visakhapatnam-530016		7702008192

IV YEAR - MECHATRONICS (2020-2024 BATCH)

S.No	Student Name Register Number Date of Birth	Father Name	Permanent Address	E-mail id	Mobile Number
1	Raghul .V 11209H001 28/12/2002	Venkatesan. K	no.8a/33, Vaithiyar st, Kanchipuram, Tamil Nadu. pin-631 502	**Register_number@kanchiuniv.ac.in	8637432746
2	Kudaravalli Venkata Sai Lakshman 11209H002 02/12/2002	Kudaravalli Srinivasa Rao	Fortune homes 305, d.no. 1-1/1 vanukuru penanamaluru mandalam Andhra Pradesh-521151		9491962682

11. FINANCIAL REPORT

Budget proposal for the financial year 2023-24

Name of the Dept: EIE

	Recurring		**Q1**	**Q2**	**Q3**	**Q4**		
	S.No	**Expenditure head**	**Apr - Jun**	**Jul - Sep**	**Oct - Dec**	**Jan - Mar**	**Total**	**Annexure No.**
	1	Academic expenses	33,000	8,000	8,000	8,000	57,000	1
	2	Laboratory expenses	5,000	155,000	55,000	5,000	220,000	2
	3	Printing & Stationery	2,300	2,300	2,300	2,300	9,200	3
	4	Seminar & Meeting expenses	7,000	7,000	7,000	7,000	28,000	4
	5	Research activities	30,000	-	30,000	-	60,000	5
	6	Repairs & Maintenance	100,000	2,000	2,000	2,000	106,000	6
	7	Others (provide details in Annex)	-	-	-	-	-	7
			177,300	174,300	104,300	24,300	480,200	

	CAPITAL		Q1	Q2	Q3	Q4		
	S.No	**Expenditure head**	**Apr - Jun**	**Jul - Sep**	**Oct - Nov**	**Dec - Mar**	Total	**Annexure No.**
	1	Books	-	-	-	-	-	8
	2	Computers and Software	100,000	200,000	-	-	300,000	9
	3	Furniture	-	-	-	-	-	10
	4	Lab equipments	30,000	-	-	-	30,000	11
	5	Others (details to be provided by dept)	-	-	-	-	-	12
			130,000	200,000	-	-	330,000	

INCOME / EXPENDITURE

Total income for the academic year 2023 -24
(Tution fees amount paid by the students)

First year	Nil	Nil
Second year	60,000 * 02 * 3	3.6 Lakhs
Thrid year	60,000 * 02 * 4	4.8Lakhs
Final year	60,000 * 02 * 2	2.4 Lakhs
	Total Income	10.8 Lakhs

Expenditure for Annual salary of all EIE staff members = 36 Lakhs

12. TIME TABLE ODD SEM 2023-2024

II Year Mechatronics

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday	EDC	MTM	M3	EM	OOPS		EDC LAB		HONS (BSA)
Tuesday	EM	S&A	OOPS	MTM	S&A		OOPS	M3	EDC
Wednesday	OOPS	M3	MTM	S&A	EDC		EM	Soft Skill-I	
Thursday	M3	EM	S&A	HONS (BSA)	OOPS		OOPS LAB		
Friday	MTM	EDC	M3	S&I	HONS (BSA)		MP LAB		

S. CODE		SUBJECT	Hours Allotted	STAFF NAME	DEPT
BMTF183T10	M3	MATHEMATICS –III – PROBABILITY AND STATISTICS	5	Dr.E.Geetha	MATHS
BMTF183T30	EDC	ELECTRONIC DEVICES AND CIRCUITS	4	Dr. N. C. A. Boovarahan	EIE
BMTF183T40	EM	ENGINEERING MECHANICS	4	Dr. A. Nandhakumar	MECHANICAL
BMTF183T50	MTM	MANUFACTURING TECHNOLOGY FOR MECHATRONICS	4	Dr. S. D. Sathish Kumar	MECHANICAL
BMTF183T60	S&A	SENSORS AND ACTUATORS	4	Dr. K. Sugapriya	EIE
BETF183T20	OOPS	OBJECT ORIENTED PROGRAMMING LANGUAGE USING C++	5	Dr. K. Anitha	ECE
BMTF183ST1	BSA	BASICS OF SENSORS AND ACTUATORS(HONS)	3	Mr.G.Subramaniyan	EIE
BMTF183P80	EDC LAB	ELECTRONIC DEVICES AND CIRCUITS LAB	2	Dr. N. C. A. Boovarahan	EIE
BMTF183P90	MP LAB	MANUFACTURING PROCESS LAB	3	Dr. S. D. Sathish Kumar	MECHANICAL
BMTF183P70	OOPS LAB	OBJECT ORIENTED PROGRAMMING LANGUAGE USING C++ LAB	3	Dr. K. Anitha	ECE
BETF183MC2	S&I	SANSKRIT & INDIAN CULTURE	1	Dr.K.S.Sivakumar	Sanskrit
BETF183MC3		SOFT SKILL-I	2		PLACEMENT

III Year Mechatronics

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00to10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday	PED	AI	CS	TOM	FPS		FPC LAB		
Tuesday	PED	EMM	CS	AI	PED		EMM	FPS	TOM
Wednesday	EMM	CS	AI	PED	TOM		FPS	Soft Skill-III	
Thursday	AI	TOM	FPS	CS	EMM		MD LAB		
Friday	TOM	FPS	PED	CS	AI		PED LAB		

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
BMTF185EA0	TOM	THEORY OF MACHINES	5	Dr. R. Vinayagamoorthi	MECHANICAL
BMTF185OEA	EMM	ELECTRICAL AND MECHANICAL MEASUREMENTS	4	Dr. T. Sundar	EIE
BMTF185T10	CS	CONTROL SYSTEMS	5	Dr. K. Sugapriya	EIE
BMTF185T20	AI	ANALYTICAL INSTRUMENTATION	5	Dr. K. Saraswathi	EIE
BMTF185T30	FPS	FLUID POWER SYSTEMS	5	Dr. S. Vijaya Baskar	MECHANICAL
BMTF185T40	PED	POWER ELECTRONICS AND INDUSTRIAL DRIVES	5	Dr. T. Lakshmibai	EIE
BMTF185P70	FPC LAB	FLUID POWER CONTROL LAB	3	Dr. S. Vijaya Baskar	MECHANICAL
BMTF185P80	PED LAB	POWER ELECTRONICS AND INDUSTRIAL DRIVES LAB	3	Dr. T. Lakshmibai	EIE
BMTF185P90	MD LAB	MACHINE DRWAING LAB	3	Dr. S. D. Sathish Kumar	MECHANICAL
BETF185MC05		SOFT SKILL-III	2		PLACEMENT

IV Year Mechatronics

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00to10 :50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday	ES	CIM	TQM	AI	AI		R&A	CIM	TQM
Tuesday	CIM	TQM	R&A	AI	ES		Project Work-Phase I		
Wednesday	AI	ES	ES	TQM	CIM		R&A LAB		
Thursday	TQM	CIM	AI	R&A	R&A		Project Work-Phase I		
Friday	R&A	AI	ES	CIM	TQM		ES	R&A	Seminar

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
BMTF187T10	R&A	ROBOTICS AND AUTOMATION	6	Dr.K.Saraswathi	EIE
BMTF187EI0	ES	EMBEDDED SYSTEMS	6	Dr. R. Janani	EIE
BMTF187EP0	TQM	TOTAL QUALITY MANAGEMENT	6	Dr. R. Balakumar	MECHANICAL
BMTF187ER0	CIM	COMPUTER INTEGRATED MANUFACTURING	6	Dr. D. Vijayan	MECHANICAL
BMTF187OEI	AI	AIRCRAFT INSTRUMENTATION	6	Dr. T. Lakshmibai	EIE
BMTF187P60	R&A LAB	ROBOTICS AUTOMATION& PROCESS CONTROL LAB	3	Dr.K.Saraswathi	EIE
BMTF187P80	PROJECT	PROJECT WORK- PHASE 1	6	Dr. T. Lakshmibai	EIE

TIME TABLE EVEN SEM 2023-2024

II Year Mechatronics

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday	ME	TD	LIC	MS	DE		SM&FM LAB		
Tuesday	II	DE	MS	II	LIC		ME	TD	SM&FM
Wednesday	SM&FM	LIC	LIB	DE	ME		II	Soft Skill-II	
Thursday	TD	SM&FM	ME	II	MS		LIC LAB		
Friday	MS	DE	LIC	TD	SM&FM		TE LAB		

SL. No	Sub.Code	Sub.Short Form	Subject Title	Name of the Faculty	Dept
1	BMTF184T10	SM &FM	Strength of Materials andFluid Mechanics	Dr. R. Vinayagamoorthi	MECHANICAL
2	BMTF184T20	II	Industrial Instrumentation	Dr. K. Saraswathi	EIE
3	BMTF184T30	ME	Materials Engineering	Dr.R.Ellapan	MECHANICAL
4	BMTF184T40	TD	Thermodynamics	Dr.S.Arumugam	MECHANICAL
5	BMTF184T50	LIC	Linear Integrated Circuits	Dr. N. C. A. Boovarahan	EIE
6	BMTF184T60	DE	Digital Electronics	Dr. K. Sugapriya	EIE
7	BMTF184P70	LIC LAB	Linear Integrated Circuits & Digital Electronics Lab	Dr. K. Sugapriya	EIE
8	BMTF184P80	TE LAB	Thermal Engineering Lab	Dr.S.Arumugam	MECHANICAL
9	BMTF184P90	SM&FM LAB	Strength of Materials andFluid Mechanics Lab	Dr.G. Venkata Koteeshwara Rao	MECHANICAL
10		MS(HONS)	Medical Sensors	Dr. T. Sundar	EIE
11	BETF184MC4		Soft Skill –II *	Placement	

III Year Mechatronics

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday	PLC&DA	POC	CAD	PLC&DA	POM		MPMC LAB		
Tuesday	POM	MPMC	POC	CAD	POC		PLC&DA	BMI	BMI
Wednesday	CAD	PLC&DA	POM	MPMC	MPMC		BMI	Soft Skill-IV	
Thursday	BMI	POM	POC	MPMC	CAD		PLC&VI LAB		
Friday	MPMC	POM	CAD	BMI	POC		CAD/CAM LAB		

SL. No	Sub. Code	Sub.Short Form	Subject Title	Name of the Faculty	Dept
1	BMTF186EG0	POC	Professional Elective II- Principles of Communication	Dr. K. Sugapriya	EIE
2	BMTF186OEE	BMI	Open Elective II- Bio Medical Instrumentation	Dr. T. Sundar	EIE
3	BMTF186T30	POM	Principles of Management and Professional Ethics	Dr.Janani R	EIE
4	BMTF186T20	MPMC	Microprocessors and Microcontrollers	Dr. N. C. A. Boovarahan	EIE
5	BMTF186T10	PLC	PLC & Data Acquisition System	Dr. K. Saraswathi	EIE
6	BMTF186T40	CAD	CAD / CAM	Dr. D. Vijayan	MECHANICAL
7	BMTF186P70	MPMC LAB	Microprocessors and Microcontrollers Lab	Dr. N. C. A. Boovarahan	EIE
8	BMTF186P80	CAD/CAM LAB	CAD / CAM Lab	Dr. D. Vijayan	MECHANICAL
9	BMTF186P90	PLC & VI Lab	PLC and Virtual Instrumentation Lab	Dr. K. Saraswathi	EIE
10	BETF18MC06	SS	Soft Skill - IV*	Placement	

IV Year Mechatronics

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday	IOT	NT	IOT		NT		NT	FMS	
Tuesday	NT	FMS	IOT	NT	FMS		Project Work Phase-II		
Wednesday	FMS	NT	IOT		FMS		Project Work Phase-II		
Thursday	Project Work Phase-II						Project Work Phase-II		
Friday	Project Work Phase-II						Project Work Phase-II		

SL. No	Sub.Code		Subject Title	Name of the Faculty	Dept
1	BMTF188EX0	FMS	Professional Elective VI- Flexible manufacturingsystems	Dr. S. D. Sathish Kumar	MECHANICAL
2	BMTF188EA1	IOT	Professional Elective VII- IOT in Automation	Dr. T. Lakshmibai	EIE
3	BMTF188OEM	NT	Open Elective IV- Nano Technology	Dr. T. Sundar	EIE
4	BMTF188Z40	PW	Project Work Phase-II	Dr. T. Lakshmibai	EIE

ODD SEMESTER - TIME TABLE – 2023-24

Lab TimeTable Odd Semester 2023-2024

Period	1	2	3	4	5		6	7	8	
Time	***9:10 to 10:00***	***10:00 to 10: 50***	***10:50 to 11:40***	***1:15 to 2:00***	***2:00 to 2:40***		***2:40 to 3:20***	***3:30 to 4:10***	***4:10 to 4:50***	
Monday						LUNCH BREAK	EDC LAB (II MCHT)			
Tuesday							DE LAB(II CSE)			
							PW (PHASE I) (IV MCHT)			
Wednesday							R&A LAB(IV MCHT)			PROCESS CONTROL LAB(VII SEM EEE PARTTIME
Thursday							DE LAB(II CSE) (IV MCHT)			
							PW (PHASE I)			
Friday							PED LAB(III MCHT)			

EVEN SEMESTER - TIME TABLE – 2023-24

Lab TimeTable Even Semester 2023-2024

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday						LUNCH BREAK	MP&MC Lab (III Yr Mechatronics) VK		
Tuesday							MP&MC Lab (II Yr CSE) VK & KVM		
Wednesday			PROCESS CONTROL LAB (IV YR EEE) GS				PROJECT WORK (PHASE-II)GS		
Thursday	PROJECT WORK (PHASE-II)KVM						LIC LAB (II Yr Mechatronics) KVM		
							PLC&VI LAB (III Yr Mechatronics) GS		
Friday	PROJECT WORK (PHASE-II)VK						MP&MC Lab (II Yr CSE)VK&KVM		

FACULTY INDIVIDUAL TIME TABLE ODD SEMESTER 2023-24

ODD SEMESTER TIME TABLE (2023 - 24)

Dr. K. Saraswathi

Period	1	2	3	4	5		6	7	8
Time									
Monday		AI			ACS	LUNCH BREAK	R&A		
Tuesday			R&A	AI					
Wednesday		ACS	AI				R&A LAB		
Thursday	AI			R&A					ACS
Friday	R&A		ACS		AI			R&A	

AI – ANALYTICAL INSTRUMENTATION (III – Mechatronics)

R&A – ROBOTICS AND AUTOMATION (IV – Mechatronics)

ACS - AUTOMATIC CONTROL SYSTEM (II- Mechanical)

R&A LAB - ROBOTICS AUTOMATION& PROCESS CONTROL LAB (IV – Mechatronics)

Dr. Janani. R

Period	1	2	3	4	5		6	7	8
Time									
Monday	ES					LUNCH BREAK			
Tuesday					ES				
Wednesday		ES							
Thursday									
Friday			ES				ES		

ES – EMBEDDED SYSTEMS (IV – Mechatronics)

Dr. T. Sundar

Period	1	2	3	4	5		6	7	8
Time									
Monday	DE		DPA			LUNCH BREAK	DPA		
Tuesday		EMM	DPA		DE		EMM		
Wednesday	EMM		DE						
Thursday	DPA			DE	EMM		DE LAB		
Friday		DE					DPA		

EMM - ELECTRICAL AND MECHANICAL MEASUREMENTS (III – Mechatronics)

DPA - DIGITAL PRINCIPLES AND ITS APPLICATIONS (I – BCA 'A')

DE - DIGITAL ELECTRONICS (II –

DE LAB - DIGITAL ELECTRONICS LAB (II – CSE)

Dr. T. Lakshmibai

Period	1	2	3	4	5		6	7	8
Time									
Monday	PED			AI		LUNCH BREAK		POC	
Tuesday	PED			AI	PED		PW - I		
Wednesday	AI		POC	PED			POC		
Thursday	POC		AI				PW - I		
Friday		AI	PED	POC			PED LAB		

PED - POWER ELECTRONICS AND INDUSTRIAL DRIVES (III – Mechatronics)

AI - AIRCRAFT INSTRUMENTATION (IV – Mechatronics)

POC – PRINCIPLES OF COMMUNICATION (III – IT)

PED LAB - POWER ELECTRONICS AND INDUSTRIAL DRIVES LAB (III – Mechatronics)

PW – I – PROJECT WORK (IV – Mechatronics)

Dr. K. Sugapriya

Period	1	2	3	4	5		6	7	8
Time									
Monday		S&T	CS			LUNCH BREAK			
Tuesday			CS		S&A		DE LAB		
Wednesday		CS		S&A	S&A				
Thursday	S&T		S&A	CS					
Friday		S&T		CS					S&T

S&T - SENSORS AND TRANSDUCER (II MECHANICAL)

CS- CONTROL SYSTEM (III – Mechatronics)

S&A - SENSORS AND ACTUATORS (II – Mechatronics)

DE LAB – DIGITAL ELECTRONICS LAB (II – CSE)

Dr. N. C. A. Boovarahan

Period	1	2	3	4	5		6	7	8
Time									
Monday	EDC	DPA				LUNCH BREAK	EDC LAB		
Tuesday		EDC		DPA			EDC		
Wednesday	DPA			DPA					
Thursday				DPA					
Friday		EDC							

DPA - DIGITAL PRINCIPLES AND ITS APPLICATIONS (I – BCA 'B')

EDC - ELECTRONIC DEVICES AND CIRCUITS (II – Mechatronics)

EDC LAB - ELECTRONIC DEVICES AND CIRCUITS LAB (II – Mechatronics)

Mr. G.Subramaniyan

Period	1	2	3	4	5		6	7	8
Time									
Monday				DPA		LUNCH BREAK			
Tuesday	DPA								
Wednesday		DPA			DPA		Process Lab		
Thursday									
Friday		DPA							

DPA - DIGITAL PRINCIPLES AND ITS APPLICATIONS (I – Bsc- CS)

- Process Control Lab (VII Sem-EEE Part Time)

Mrs.V.Komala

Period	1	2	3	4	5		6	7	8
Time	***9:10 to 10:00***	***10:00 to 10: 50***	***10:50 to 11:40***	***1:15 to 2:00***	***2:00 to 2:40***		***2:40 to 3:20***	***3:30 to 4:10***	***4:10 to 4:50***
Monday						LUNCH BREAK	EDC LAB		
Tuesday							DE LAB		
Wednesday									
Thursday							DE LAB		
Friday									

EDC LAB - ELECTRONIC DEVICES AND CIRCUITS LAB (II – Mechatronics)

DE LAB – DIGITAL ELECTRONICS LAB (II – CSE)

Mr.K.Vinayagamoorthy

Period	1	2	3	4	5		6	7	8
Time	***9:10 to 10:00***	***10:00 to 10: 50***	***10:50 to 11:40***	***1:15 to 2:00***	***2:00 to 2:40***		***2:40 to 3:20***	***3:30 to 4:10***	***4:10 to 4:50***
Monday						LUNCH BREAK			
Tuesday							DE LAB		
Wednesday							R&A LAB		
Thursday							DE LAB		
Friday							PED LAB		

DE LAB – DIGITAL ELECTRONICS LAB (II – CSE)

PED LAB - POWER ELECTRONICS AND INDUSTRIAL DRIVES LAB (III – Mechatronics

R&A LAB-ROBOTICS AUTOMATION& PROCESS CONTROL LAB (IV – Mechatronics)

FACULTY INDIVIDUAL TIME TABLE EVEN SEMESTER 2023-24

Dr. T. Lakshmibai

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday	IOT		IOT			LUNCH BREAK			
Tuesday			IOT				PROJECT WORK PHASE-II		
Wednesday			IOT				PROJECT WORK PHASE-II		
Thursday	PROJECT WORK PHASE-II						PROJECT WORK PHASE-II		
Friday	PROJECT WORK PHASE-II						PROJECT WORK PHASE-II		

IOT – IOT IN AUTOMATION (IV – MECHATRONICS)

PW –II – PROJECT WORK PHASE-II (IV – MECHATRONICS)

Dr. Janani. R

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday					POM	LUNCH BREAK			MPMC
Tuesday	POM			MPMC			MPMC LAB		
Wednesday	MPMC		POM						
Thursday		POM							
Friday		POM		MPMC			MPMC LAB		

POM –PRINCIPLES OF MANAGEMENT AND PROFESSIONAL ETHICS (III - MECHATRONICS)

MPMC - MICROPROCESSORS AND MICROCONTROLLERS (II - CSE)

MPMC LAB - MICROPROCESSORS AND MICROCONTROLLERS LAB (II - CSE)

Dr. K. Saraswathi

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday	PLC&DA			PLC&DA		LUNCH BREAK			
Tuesday	II			II			PLC & DA	PLC	
Wednesday		PLC&DA		PLC			II		
Thursday		PLC		II			PLC&VI LAB		
Friday					PLC				

II – INDUSTRIAL INSTRUMENTATION (II – MECHATRONICS)

PLC &DA – PLC & DATA ACQUISITIONSYSTEM (III – MECHATRONICS)

PLC - PROGRAM LOGIC CONTROLLERS (II- MECHANICAL)

PLC & VI LAB- PLC AND VIRTUAL INSTRUMENTATION LAB (III – MECHATRONICS)

Dr. T. Sundar

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday		NT		MS	NT	LUNCH BREAK	NT		
Tuesday	NT		MS	NT				BMI	
Wednesday		NT	PROCESS CONTROL LAB				BMI		
Thursday	BMI				MS				
Friday	MS			BMI					

MS (HONS) - MEDICAL SENSORS (II – MECHATRONICS)

BMI - OPEN ELECTIVE II- BIO MEDICAL INSTRUMENTATION (III –MCT)

NT - OPEN ELECTIVE IV- NANO TECHNOLOGY (IV – MCT)

PC LAB - PROCESS CONTROL LAB (IV – EEE)

Dr. K. Sugapriya

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday		POC			DE	LUNCH BREAK			
Tuesday		DE	POC		POC				RTC&T
Wednesday			RTC&T	DE					
Thursday	RTC&T		POC				LIC &DE LAB		
Friday		DE		RTC&T	POC				

DE - DIGITAL ELECTRONICS (II MECHATRONICS)

POC - PROFESSIONAL ELECTIVE II- PRINCIPLES OF COMMUNICATION (III – MCT)

RTC &T- ROBOTICS TECHNOLOGY CHARACTERIZATION & TECHNIQUES (II- MECH)

LIC & DE LAB – LINEAR INTEGRATED CIRCUITS &DIGITAL ELECTRONICS LAB (II – MCT)

Dr. N. C. A. Boovarahan

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday			LIC			LUNCH BREAK	MPMC LAB		
Tuesday		MPMC			LIC				
Wednesday		LIC		MPMC					
Thursday				MPMC					
Friday	MPMC		LIC						

LIC - LINEAR INTEGRATED CIRCUITS (II– MECHATRONICS)

ES - EMBEDDED SYSTEMS (III-IT)

MPMC - MICROPROCESSORS ANDMICROCONTROLLERS (III – MCT)

MPMC LAB - MICROPROCESSORS ANDMICROCONTROLLERS LAB (III – MCT)

Mr. G.Subramaniyan

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday						LUNCH BREAK			
Tuesday									
Wednesday			PROCESS CONTROL LAB (IV Yr EEE)				PROJECT WORK (PHASE-II)		
Thursday							PLC&VI LAB(III Yr Mechatronics)		
Friday							PROJECT WORK (PHASE-II)		

PC LAB - PROCESS CONTROL LAB (IV YEAR EEE)

MP&MC LAB – MICROPROCESSOR &MICROCONTROLLER LAB (II YEAR CSE)

PW - PROJECT WORK (PHASE-II) (IV YEAR MCT)

Mrs.V.Komala

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday						LUNCH BREAK	MP&MC Lab(III Yr Mechatronics)		
Tuesday							MP&MC Lab(II Yr CSE)		
Wednesday									
Thursday									
Friday	PROJECT WORK (PHASE-II)						MP&MC Lab(II Yr CSE)		

MP&MC LAB - MICROPROCESSOR &MICROCONTROLLER LAB (III YRAE MECHATRONICS)

MP&MC LAB – MICROPROCESSOR &MICROCONTROLLER LAB (II YEAR CSE)

PW - PROJECT WORK (PHASE-II) (IV YEAR MECHATRONICS)

Mr.K.Vinayagamoorthy

Period	1	2	3	4	5		6	7	8
Time	9:10 to 10:00	10:00 to 10:50	10:50 to 11:40	11:50 to 12:40	12:40 to 1:30	1:30 to 2.20	2:20 to 3:10	3:10 to 4:00	4:00 to 4:50
Monday						LUNCH BREAK			
Tuesday							MP&MC Lab(II Yr CSE)		
Wednesday									
Thursday	PROJECT WORK (PHASE-II)						LIC&DE LAB(II Yr Mechatronics)		
Friday							MP&MC Lab(II Yr CSE)		

MP&MC LAB – MICROPROCESSOR &MICROCONTROLLER LAB (II YEAR CSE)

LIC&DE LAB - LIC & DIGITAL ELECTRONICS LAB (II YEAR MECHATRONICS)

PW - PROJECT WORK (PHASE-II) (IV YEAR MECHATRONICS)

13.SEMINARS/WORKSHOPS/CONFERENCES/SYMPOSIUMS/TRAIN INGPROGRAMS ORGANIZED

DEPARTMENTAL ACTIVITIES

S.NO	Name of the Department	Programme Organized	Date
1	EIE	Engineers Day 2023 and SETS CLUB	27.09.2023
2	EIE	Internet of Things (IOT) Workshop	11.10.2023
3	EIE	Alumni Meet	27-12-2023
4	EIE	Women's Day Celebrations	02-02-2024
5	EIE	Nexus Fusion Symposium Organized by EIE department SCSVMV	16/04/2024 to 17/04/2024
6	EIE	Faculty Enrichment Program	15.05.2024 To 18.05.2024

AAVISHKAR the National Level Technical Symposium is conducted by EIE Department, SCSVMV every year.

- AAVISHKAR tag line is "**Discover an Engineer in U**". The in –depth abbreviation says

  A-Analyze,

  A-Anticipate,

  V-View,

  I-Innovate,

  S-Stimulate,

  H-Hoist,

  K-The Kharismatic,

  A-Avatar of Engineer

  & R-To Reality

- This is a wonderful platform for student eternity to show their technical & presentation skills in various technical concepts.
- The technical paper presentation of the AAVISHKAR includes the innovative topics like Augmented Reality, Internet of Things Embedded Systems Wireless network system, Space recognition sensor, Bio-medical instrumentation, Light fidelity etc.,
- Technical papers received from inter University and the end cultural programs will steal the heart of the audience.

DEPARTMENTAL MEETINGS

SL.NO	MEETINGS	DATE
1	IV Year Mechatronics Class committee meeting	16.10.2023
		26.02.2024
		06.05.2024
2	III Year Mechatronics Class committee meeting	16.10.2023
		28.02.2024
		06.05.2024
3	II Year Mechatronics Class committee meeting	20.10.2023
		13.03.2024
		10.05.2024
4	Staff Meeting	19/09/2023
		21/09/2023
		20/11/2023
		08/02/2024
		23/02/2024

RESEARCH COLLOQUIUM

S.NO	NAME	DATE	TITLE
1	Dr.N.C.A.Boovarahan	18/04/2024	NEP 2020

14. PROJECT DETAILS

ODD SEMESTER (2023-2024)
PROJECT PHASE -1

S.No	Register Number	Name of the Student	Title of the Project	Project Type	Name of the Guide
1	11209H001	V.Raghul	Arduino Based Automatic Vending Machine	Hardware	Dr.T. Lakshmibai
2	11209H002	K. V. Sai Lakshman			

PROJECT PHASE -1

ABSTRACT DETAILS

Name of the Student(s)	Abstract
V.Raghul, K. V. Sai Lakshman	An automatic vending machine based on Arduino microcontroller with a push-button user interface is developed. This system's main goal is to show off a simplified prototype of a vending machine that can dispense goods in response to a push button input from the user. The servo motor, which is in charge of item dispensing, is controlled by an Arduino board in this design. When a user presses the push button to indicate their choice, the system starts to function. The chosen item is dispensed by the servo motor after the Arduino has processed the input. The vending machine can be easily and quickly interacted with productsconnected to its push button interface.The project comes with all of the required hardware, including the Arduino board, push button, and servo motor. Additional features like item selection displays, payment methods, and inventory management can be added to the system in the future. In order to provide enthusiasts of students with a practical and interesting application to investigate the concepts of automation, sensor interfacing, and control systems, this project acts as a foundational prototype for educational purposes. This project advances knowledge and practical application of microcontroller-based systems and automation by showcasing the integration of Arduino technology with a push button interface for vending. It provides a platform for the creation of more advanced vending machines and illustrates the possibility of integrating cutting-edge technologies into commonplace gadgets.

EVEN SEMESTER (2023-2024)

PROJECT PHASE – II

S.No	Register Number	Name of the Student	Title of the Project	Project Type	Name of the Guide
1	11209H001	V.Raghul	Animatronic Hand	Hardware	Dr.T. Lakshmibai
2	11209H002	K. V. Sai Lakshman	Lightweight Network For Real Time Faceverification Using Deep Learning Techniques	Hardware	Dr.T. Lakshmibai

PROJECT PHASE –II

ABSTRACT DETAILS

Name of the Student(s)	Abstract
V.Raghul	Animatronics is the use of Mechatronics to create machines which seem animate rather than robotic. Animatronic figures are most often powered by pneumatics (compressed air), and, in special instances, hydraulics (pressurized oil), or by electrical means. The figures are precisely customized with the exact dimensions and proportions of living creatures. Motion actuators are often used to imitate "muscle" movements, such as limbs to create realistic motions. Also, the figure is covered with body shells and flexible skins made of hard and soft plastic materials. Then, the figure can be finished by adding details like colours, hair and feathers and other components to make the figure more realistic. It is interested in making some sort of robot based on the Arduino platform. This project is the first phase of this longer-term desired effort. Anything is possible with the mighty power of Arduino. It's compact, it's straightforward, and makes embedding electronics into the world-at-large fun and easy. The project idea came from the movie named "Real Steel". Shadow robot was made after the idea got from the movie "Real Steel". As the whole body of the robot would have been of much cost, It is decided to make a shadow hand instead. Approximating the kinematics of the human hand was our top priority when developing this animatronic hand. Each joint of this hand has a movement range again the same as or very close to that of a human hand, including the thumb and even the flex of the palm for the little finger.

K. V. Sai Lakshman	This project endeavours to develop a Lightweight Network for Real-time Face Verification using Deep Learning Techniques, with a focus on bolstering biometric security and identity recognition systems. It delves into the fusion of deep learning methodologies and lightweight network architectures to fabricate models capable of conducting face verification in real-time while operating efficiently on devices with limited computational resources. Key elements of the project encompass the investigation of the pivotal role played by real-time processing in face verification systems, elucidating its significance for both security enhancement and user experience enrichment. Additionally, the project embarks on an exploration of various deep learning techniques, including feature extraction, model optimization, and network compression, aimed at achieving optimal performance while minimizing computational overhead. Central to the endeavour is the endeavour to strike a delicate balance between model complexity and computational efficiency, a challenge magnified in real-time scenarios. Moreover, the project delineates the potential applications of the proposed Lightweight Network in diverse domains such as security systems, access control mechanisms, and surveillance apparatuses. Furthermore, it underscores the critical importance of integrating advanced machine learning techniques in the global endeavour to combat human trafficking, underscoring the pivotal role of face verification in fortifying anti -trafficking endeavours. The project methodology spans data collection, pre-processing, model improvisation, and user interface design, laying the groundwork for the seamless implementation of the Lightweight Network. Overall, this project aims to propel the frontier of face recognition technology by furnishing a pragmatic and efficient solution for real-time face verification, with far-reaching implications for security augmentation and human trafficking mitigation.

15. PUBLICATIONS

JOURNAL (2023-2024)

SL NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	JOURNAL DETAILS	WOS/SCI/SCOPUS/UGC Carelist/PEER REVIEWED
1	Dr.T.Lakshmibai	Experimental study of Arduino based Automatic Vending Machine with Push button Interface	International Journal for Innovative Research In Multidisciplinary Field (IJIRMF)	UGC Care
2	Dr. Janani R	Optimizing Interacting Systems with a Grey Wolf Optimization-Based Two-Mode Controller Design	Indian Journal of Technical Education	UGC Care List
3	K.Saraswathi	Design of TITO system using ANFIS-PID controller for polymerization industry	Measurement: Sensors (Elsevier)	SCI
		PLC BASED PID CONTROLLED BATCH PROCESS	Mukt Shabd Journal	UGC Care
4	Dr.T.SUNDAR	Linear Programming Model of Maximum Network Flow and Its Solution	Mukt Shabd Journal	UGC Care

		A Comprehensive Review of Thermal Power Plants in India	International Journal of Multidisciplinary Innovative Research	PEER REVIEWED
		Study of Sequencing Model Application and Solution of LPP Formulation	International Journal of Multidisciplinary Innovative Research	PEER REVIEWED
5	Dr.K.Sugapriya	Textile Horizontal T-Shaped Ultrawide Band Microstrip Patch Antenna for WBAN Applications	IEEE Xplore	PEER REVIEWED
6	Dr N C A Boovarahan	Automated air pollution monitoring system	International Conference on MIcro-Electronics and Telecommunication Engineering (ICMETE) in SRM IST Delhi NCR Campus Ghazibad, India on 22 september to 23 september 2023	SCOPUS
		IOT Based Smart System for Fire Detection in Forests		
		IOT Based Water Level Management System		
		A Review on Blockchain Technology based secure intelligent wearable devices for 6G systems	Przeglad elecktrotechniczy	
		Independent	International	

		Wireless Networking System for Environmental Monitoring	Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS 2023) in M P Nachimuthu M Jaganathan Engineering College Chennimalai Erode India on 18th October 2023 to 20 October 2023	
		Fuzzy Network Based 6G Framework for Healthcare Applications		
		Patch Antenna based Detection of Head Tumors	2nd International Conference on Automation, computing and renewable systems (ICARS) 2023	

NATIONAL & INTERNATIONAL CONFERENCES (2023-2024)

SL NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	CONFERENCE DETAILS
1	Dr.T.Lakshmibai	Experimental study of Arduino based Automatic Vending Machine with Push button Interface	Eurasian Conference on Science, Engineering & Technological Innovations" organized by International Scientific Research Association Eurasian Research Organization Research Culture Society & Supported by: Eurasian Institute of Science and Technology (EU)
2	Dr.K.Sugapriya	Textile Horizontal T-Shaped Ultrawide Band Microstrip Patch Antenna for WBAN Applications	2023 International Conference on Recent Advances in Science and Engineering Technology (ICRASET)
3	Dr N C A Boovarahan	Automated air pollution monitoring system	International Conference on MIcro-Electronics and Telecommunication Engineering (ICMETE) in SRM IST Delhi NCR Campus Ghazibad, India on 22 september to 23 september 2023
		IOT Based Smart System for Fire Detection in Forests	
		IOT Based Water Level	

		Management System	
		Independent Wireless Networking System for Environmental Monitoring	International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS 2023) in M P Nachimuthu M Jaganathan Engineering College Chennimalai Erode India on 18th October 2023 to 20 October 2023
		Fuzzy Network Based 6G Framework for Healthcare Applications	
		Patch Antenna based Detection of Head Tumors	2nd International Conference on Automation, computing and renewable systems (ICARS) 2023
4	Dr. Janani R	Analyzing and Optimizing PI Controller Methods for Interacting Systems: A Laboratory-Based Study	The Engineering Advances 2024: First International Conference
		Polynomial Control Strategy for Enhanced PI Controllers in Multivariable Processes: Design and Analysis	International Conference on Material Processing using Lasers, and Surface Engineering (IMPULSE •2023)
		A comprehensive analysis of Stress Management Approaches among the Professional Graduates	International conference on Application of Recent Technologies in Science, Engineering, Management and Societal and Industrial Development
		Optimizing Interacting Systems With A Grey Wolf Optimization-Based Two-Mode Controller Design	National Conference on Communication, Image Processing and Computing

16. PROFILE OF DEPARTMENT LIBRARY

S.NO	ACC.NO	TITLE OF BOOKS
1.	B111409	Electronic Devices & Circuits : Principles & Applications
2.	B111563	Electronic Devices & Circuit Theory
3.	B111643	Industrial Electronics : Application For Programmable Controllers, Instrumentation
4.	B111770	Digital Signal Processing
5.	B112188	Electronic Devices and Circuits
6.	B112192	Signals and Systems
7.	B112472	Digital Signal Processing
8.	B113012	Millman's Electronic Devices and Circuits
9.	B114237	Power Electronics: Circuits, Devices and Applications
10.	B114238	Programmable Logic Controllers :Principles and Applications
11.	B114241	Process Control Instrumentation and Technology
12.	B114247	Measurement Systems: Application and Design
13.	B114251	Embedded Systems :Architecture, Programming and Design
14.	B114255	Digital Electronics
15.	B114256	Computer Control of Process
16.	B114260	Instrumental Methods of Analysis
17.	B114263	Process Control Systems and Instrumentation

18.	B114273	Digital Signal Processing
19.	B114277	Biomedical Instrumentation
20.	B114281	Control Systems Engineering
21.	B114282	Sensors and Transducers
22.	B114284	Transducers and Instrumentation
23.	B114287	Programmable Logic Controllers
24.	B114292	Power Electronics
25.	B114298	Industrial Instrumentation and Control
26.	B114303	Biomedical Instrumentation and Measurements
27.	B114304	Digital Instrumentation
28.	B114308	Linear Integrated Circuits
29.	B114315	Industrial Instrumentation
30.	B114317	Digital Control Systems
31.	B114322	Process Control : Modeling, Design and Simulation
32.	B114328	Control System Design
33.	B96611	Control Systems
34.	B110741	Elements of Electronic Instrumentation and Measurement
35.	B110754	Modern Electronic Instrumentation and Measurement Techniques
36.	B111206	Principles of Industrial Instrumentation
37.	B111327	Matlab Demystified: Basic Concepts and Applications
38.	B61537	Applied Electronics-Vol. 1:Electronic Devices and Circuits
39.	B6902	Digital Logic and Computer Design
40.	B105529	Digital Electronics: An Introduction to Theory and Practice

41.	B103935	Modern Control Engineering
42.	B58919	Power Electronics
43.	B62316	Course In Electrical ,Electronic Measurements And Instrumentation
44.	B55219	Digital Signal Processing: Principles, Algorithms and Applications
45.	B61055	Elements of Management
46.	B62328	Instrumentation Measurement and Analysis
47.	B64043	Direct Current Machines
48.	B65174	Control Systems: Principles and Design
49.	B61428	Principles of Management
50.	B40440	Signals and Systems
51.	B56749	Solid State Electronic Devices
52.	B63765	Handbook of Biomedical Instrumentation
53.	B96622	Microprocessors and Microcontrollers
54.	B100556	Microcontroller & Applications
55.	B66386	Digital Signal Processing: A Computer Based Approach
56.	B57364	Text Book Of Electrical Technology- Vol.3: Transmission , Distribution and Utilization
57.	B94387	Signals and Systems: Analysis and Using Transform Methods and Matlab
58.	B7024	Microprocessor Architecture Programming and Applications with the 8085
59.	B6201	Circuit Theory : Analysis and Synthesis
60.	B103655	Microprocessors Theory and Applications : Intel and Motorola
61.	B102774	An Embedded Software Primer

62.	B100237	Transformers and Induction Machines
63.	B94243	Verilog HDL: A Guide to Digital Design and Synthesis
64.	B98544	Course in Mechanical Measurements and Instrumentation
65.	B113624	Microprocessor and Microcontroller
66.	B114294	Chemical Process Control: An Introduction to Theory and Practice
67.	EIE - 1	Advanced Control Theory
68.	115980	Circuit & Networks : Analysis & Synthesis
69.	115982	Engineering Ethics : Includes Human Values
70.	115986	Perry's Chemical Engineers' Handbook (Reference Document)
71.	115987	Fundamentals of Digital Image Processing
72.	115989	Handbook of Analytical Instruments
73.	115997	Digital Electronics
74.	B57318	Electronic Devices and Circuits: Applied Electronics. Vol 1
75.	B58677	Microelectronics
76.	B60332	Electronic Communications
77.	B66513	Digital Signal Processing
78.	B67480	Digital Instrumentation
79.	B67841	Neural Engineering: Computation, Representation and Dynamics in Neurobiological Systems
80.	B95139	Measurement & Instrumentation Principles
81.	B97252	Integrated Electronics : An Analog and Digital Circuits and Systems
82.	B97275	Automatic Control Systems
83.	B97578	Digital Signal Processing : A Computer Based Approach

84.	B97885	Higher Engineering Mathematics
85.	B98868	Neural Networks : A Comprehensive Foundation
86.	B100569	Microprocessor Architecture, Programming and Applications with The 8085
87.	B103793	Electronic Instrumentation
88.	B105705	Electronic Circuits : Discrete & Integrated
89.	B109081	Neural Networks for Pattern Recognition
90.	B111571	Introduction to Digital Signal Processing
91.	B113352	Let Us C
92.	B113795	Linear Integrated Circuits
93.	B114756	Fuzzy sets & Fuzzy Logic
94.	B118186	Embedded Systems Design : An Introduction to Processes, Tools & Techniques
95.	B118200	Industrial Instrumentation
96.	B118224	Programming in Matlab For Engineers
97.	B118245	Instrumentation & Control
98.	B118272	Electrical Measurements & Measuring Instruments
99.	B118293	Biomedical Instrumentation
100.	B118302	Computer Control of Process
101.	B118312	Discrete – Time Control Systems
102.	B118314	Gate 2012 : Instrumentation Engineering
103.	EIE – 2	Sweep Through Your Interviews by G.Vidya Shankar, Published by New Century Book House (P) Ltd., Chennai.
104.	B118502	Modern VLSI Design

105.	B118998	Robotic Engineering: An Integrated Approach
106.	B118999	Transducer Engineering
107.	B119001	Digital Electronics: Principles & Applications
108.	B119004	Introduction to Robotics
109.	B119005	Matlab & its Applications in Engineering
110.	B119011	Elements of Robotics Systems
111.	B119012	Microprocessors & Microcontrollers: Architecture, Programming & Interfacing Using 8085,8086,8051
112.	B119016	Signals & Systems
113.	B119021	Principles of Nano- Optics
114.	B119402	Microprocessor 8086 Programming & Interfacing
115.	B119426	Advanced Microprocessor
116.	B119462	Signals & Systems
117.	B119707	Microcontrollers: Principles & Applications
118.	B119718	Problems & Solutions of Control Systems: With Essential Theory
119.	B119721	Electric Circuit Theory
120.	B119726	Microcontrollers Architecture, Programming, Interfacing and System Design
121.	B119730	Microcontrollers & Applications
122.	B119737	Mastering Matlab – 7
123.	B119945	Industrial Robotics: Technology, Programming
124.	B119947	Nano & Micro materials
125.	B119948	Theory of Applied Robotics: Kinematics, Dynamics Control
126.	B119950	Aircraft Instruments: Principles & Applications

127.	B119954	Aircraft Systems
128.	B119955	Aircraft Safety: Accident Investigations Analysis & Applications
129.	B119962	Programmable Logic Control: Principles & Applications
130.	B119964	Process Control: Concepts, Dynamics & Applications
131.	B119967	Robotics: Control, Sensing, Vision & Intelligence
132.	B119972	Power Plant Instrumentation
133.	B119974	Robotics Technology & Flexible Automation
134.	B119975	VLSI Technology
135.	B120252	Foundations of Mems
136.	B120256	Robotics
137.	B120339	Digital Electronics
138.	EIE – 3	Gate – IE
139.	B61722	Drydens Outline of Chemical Technology
140.	B108471	8051 Microcontroller
141.	B110757	Process Control
142.	B113505	Electronic Communications Systems: Fundamentals Through Advanced
143.	B114267	Process Control Engineering
144.	B119395	Fundamentals of Neural Networks: Architectures, Algorithms, & Applications
145.	B123641	Analytical Instruments
146.	B123671	Fundamentals of Industrial Instrumentation & Process Control
147.	B123715	Virtual Instrumentation Using Labview: Principles & Practices of Graphical Programming

148.	B123825	Digital Signal Processing
149.	B125704	Virtual Instrumentation Using Labview
150.	B126553	Principles of Communication
151.	EIE - 4	Automatic Process Control (ECKMAN)
152.	EIE - 5	Elements of Fuels, Furnaces & Refractories (O.P Gupta)
153.	EIE - 6	Process Control (Harriot)
154.	EIE – 7	Process Systems Analysis and Control (COUGHANOWR)
155.	EIE - 8	Unit Operations Of Chemical Engineering (Mccabe, Smith, Harriott)
156.	EIE – 9	Computer Control Process (Shanthi Sasidharan)
157.	EIE -10	Programmable Logic and Distributed Control Systems
158.	130134	Fundamentals Of Micro Fabrication: The Science of Miniaturization (Madou, Marc)
159.	123892	Mems & Microsystems Design & Manufacture (Hsu, Tai-Ran)
160.	103806	MEMS (Mahalik, Nitaigur Premchand)
161.	117973	Foundation of Mems (Liu, Chang)
162.	B52231	Text Book of Electrical Technology – Vol.2 AC And DC Machines
163.	B55325	Fundamentals of Electrical Drives
164.	B56508	VLSI Design
165.	B66502	Thyristorised Power Controllers
166.	B67483	Electrical Machines: Dc Machines, AC Machines & Polyphase Circuits
167.	B100167	Power Electronics: Circuits, Devices and Applications
168.	B113802	Electronics & Microprocessors

169.	B117124	Electronics Devices & Circuits
170.	B119420	Analog & Digital Communication
171.	B120322	Microprocessors & Microcontrollers
172.	B122695	Digital Communications
173.	B123931	Principles of Communication
174.	B128828	CMOS VLSI Design: Circuits & Systems Perspective
175.	B130394	Analog & Digital Communication
176.	B134285	First Course on Electrical Drives
177.	B135945	Digital Signal Processing

17. LABORATORIES AND EQUIPMENTS

ELECTRONICS LAB

S.No	Name of The Equipment	Quantity	Total Cost
1	Digital Multimeter	03	5,913.00
2	Dual Power Supply/1018273	09	50,117.00
3	Fixed Power Supply	05	26,100.00
4	Function Generator(2Mhz)	07	41,780.00
5	Ammeter (0-1)Ma	03	
	(0-10)Ma	08	
	(0-30)Ma	03	
	(0-50)mA	05	
	(0-100)mA	05	
	(0-500)µA	05	
	Ammeter Total	29	14,760.00
6	Voltmeter (0-3)V	08	
	(0-10)V	03	
	(0-30)V	10	
	Voltmeter Total	21	10,300.00
7	Galvanometer (30-0-30)	03	1,600.00
8	Digital Ic Trainer Kit	03	12,825.00
9	Digital Ic Trainer Kit (With Out Fg)	03	12,150.00
10	Digital Ic Trainer Kit (With Fg)	03	15,120.00
11	Ic Tester	01	31,500.00
12	Decade Resistance Box	05	8,407.00
13	Decade Inductance Box	05	13,775.00
14	Decade Capacitance Box	05	12,825.00
15	CRO 20 MHZ	08	1,48,682.00
Total Amount			4,05,854.00

ELECTRONICS LAB

YEAR OF PURCHASE: 2010-2011

S.No	Name Of The Equipment	Quantity	Date Of Purchase
1	Digital Multimeter	03	10-11-2010
2	Dual Power Supply	05	09-12-2010
3	Function Generator(2mhz)	03	09-12-2010
4	Ammeter	20	09-12-2010
5	Voltmeter	15	09-12-2010
6	Digital Ic Trainer Kit	03	09-12-2010
7	Decade Resistance Box	05	09-12-2010
8	Decade Inductance Box	05	09-12-2010
9	Decade Capacitance Box	05	09-12-2010
10	CRO	03	15-12-2010

YEAR OF PURCHASE: 2011-2012

S.No	Name Of The Equipment	Quantity	Date Of Purchase
1	Dual Power Supply	04	05-07-2011
2	Function Generator(2mhz)	04	22-08-2011
3	CRO	05	14-07-2011

YEAR OF PURCHASE: 2012-2013

S.No	Name Of The Equipment	Quantity	Date Of Purchase
1	Digital IC Trainer Kit(With Out FG)	03	06-10-2012
2	Digital IC Trainer Kit (With FG)	03	06-10-2012

YEAR OF PURCHASE: 2013-2014

S.No	Name Of The Equipment	Quantity	Date Of Purchase
1	Ammeter	09	10-12-2013
2	Voltmeter	06	10-12-2013

Lab In charge: Dr.K.Sugapriya

Lab Instructor: Mrs.V.Komala

MICROPROCESSOR & MICROCONTROLLER LAB

S.No	Name of The Equipment	Quantity	Total Cost
1	Microprocessor 8085 Kit	11	46,577.00
2	Microprocessor 8086 Kit	05	29,325.00
3	Microcontroller 8051 Kit	05	23,460.00
4	ADC Interface Card	03	5520.00
5	DAC Interface Card	04	9184.00
6	8255 Interface Board	03	3885.00
7	Stepper motor Card With Stepper motor	03	8745.00
8	Key Board And Display Interface Board	02	5200.00
9	Traffic Light Control	01	1150.00
Total Amount			1,33,046.00

YEAR OF PURCHASE 2011-2012

S.No	Name of The Equipment	Quantity	Date Of Purchase
1	Microprocessor 8085 Kit	6	21-11-2011
2	Microprocessor 8086 Kit	5	21-11-2011
3	Microcontroller 8051 Kit	5	21-11-2011
4	ADC Interface Card	2	21-11-2011
5	DAC Interface Card	2	21-11-2011
6	8255 Interface Board	1	21-11-2011
7	Stepper motor Card With Stepper motor	2	21-11-2011

YEAR OF PURCHASE 2012-2013

S.No	Name of The Equipment	Quantity	Date Of Purchase
1	Microprocessor 8085 Kit	5	14-07-2012
2	ADC Interface Card	1	14-07-2012
3	DAC Interface Card	2	14-07-2012
4	Stepper motor Card With Stepper motor	1	14-07-2012
5	Key Board And Display Interface Board	1	14-07-2012
6	Traffic Light Control	1	14-07-2012

YEAR OF PURCHASE 2021-2022

S.No	Name of The Equipment	Quantity	Date Of Purchase
1	Microprocessor 8086 Kit	2	08-07-2021

Lab Incharge: Dr.N.C.A.Boovarahan Lab Instructor: Mrs.V.Komala

COMPUTER CONTROL AND VIRTUAL INSTRUMENTATION LAB

S.No	Name of The Equipment	Quantity	Total Cost
1	COMPUTER(HP make processor 4GB RAM) (key board ,mouse, LED monitor)	26	9,99,727.00
2	NI soft ware	1 Package	3,16,638.00
3	CDAQ -9174 chassis	2	93,366.00
4	NI-9219(AI module) (24 –bit)	1	68,707.00
5	NI-9263(AO module) (16-bit)	1	26,094.00
6	NI-9421(DI module)	1	6,703.00
7	NI-9472(DO module)	1	6,703.00
8	NI-9205(AI module)(16-bit)	1	55,062.00
9	UPS 10 KV (20 Batteries)	1	1,15,238.00
10	MICRO LOGIX 1200 4 channel analog combo module,SMPS	1	24,700.00
11	16 I/O MICRO LOGIX 1000,SMPS	4	69,600.00
12	RS LOGIXS MICRO STARTER (soft ware)	1	8,710.00
13	Batch process module	1	25,000.00
14	Bottle filling module(conveyor type)	1	26,500.00
15	Bottle filling module(disc type)	1	26,500.00
TOTAL AMOUNT			18,69,248.00

COMPUTER CONTROL AND VIRTUAL INSTRUMENTATION LAB

YEAR OF PURCHASE 2011-2012

S.No	Name of The Equipment	Quantity	Date Of Purchase
1	COMPUTER(HP make processor 4GB RAM) (key board ,mouse, LED monitor)	25	30-01-2012
2	COMPUTER(HP make) (key board ,mouse)	1	

YEAR OF PURCHASE 2012-2013

S.No	Name of The Equipment	Quantity	Date Of Purchase
1	NI soft ware	1	29-06-2012
2	CDAQ -9174 chassis	2	29-06-2012
3	NI-9219(AI module) (24 –bit)	1	29-06-2012
4	NI-9263(AO module) (16-bit)	1	29-06-2012
5	NI-9421(DI module)	1	29-06-2012
6	NI-9472(DO module)	1	29-06-2012
7	NI-9205(AI module)(16-bit)	1	29-06-2012
8	UPS 10 KV (20 Batteries)	1	16-07-2012
9	MICRO LOGIX 1200 4 channel analog combo module,SMPS	1	02-08-2012
10	16 I/O MICRO LOGIX 1000,SMPS	2	02-08-2012
11	16 I/O MICRO LOGIX 1000,SMPS	2	30-08-2012
12	RS LOGIXS MICRO STARTER (soft ware)	1	30-08-2012
13	Batch process module	1	05-11-2012
14	Bottle filling module(conveyor type)	1	05-11-2012
15	Bottle filling module(disc type)	1	05-11-2012

Computer Control Lab Incharge: Dr.K.Saraswathi

Lab Instructor: Mr.G.Subramaniyan

Virtual Instrumentation Lab Incharge: Dr.Janani.R

Lab Instructor: Mr.K.Vinayagamoorthy

INDUSTRIAL AND PROCESS CONTROL LAB

S.No	Name of The Equipment	Quantity	Total Amount
1	Control Value Trainer(VCVT-03a)	1	1,03,450
2	Level Control With Interacting And Non Interacting(VIN1-T02)	1	1,20,230
3	Temperature Process Control(VTPAW321ce)	1	59,770
4	Flow Process Station (VFPS-021)	1	2,30,120
5	Level Process Station (VLPS-011)	1	1,95,980
6	Pressure Process Station (VPPS-041)	1	1,65,640
7	Tuning Of Controllers (ITB Pcs-02)	1	30,980
8	Air Compressor	1	40,000
9	Computer (Hcl Make,2 Gb Ram Mouse, Key Board, Led Monitor)	6	1,62,000
TOTAL AMOUNT			11,08,000

YEAR OF PURCHASE 2011-2012

S.No	Name of The Equipment	Quantity	Date Of Purchase
1	Control Value Trainer(VCVT-03A)	1	29-09-2011
2	Level Control With Interacting And Non Interacting(VIN1-T02)	1	29-09-2011
3	Temperature Process Control(VTPAW321CE)	1	29-09-2011
4	Flow Process Station (VFPS-021)	1	15-12-2011
5	Level Process Station (VLPS-011)	1	15-12-2011
6	Pressure Process Station (VPPS-041)	1	15-12-2011
7	Tuning Of Controllers (ITB PCS-02)	1	15-12-2011
8	Air Compressor	1	12-10-2011
9	COMPUTER (HCL make,2 GB RAM Mouse, key board, LED monitor)	6	15-12-2011

Lab Incharge: Dr.T.Sundar

Lab Instructor: Mr.G.Subramaniyan

TRANSDUCER AND INDUSTRIAL INSTRUMENTS LAB

S.NO	NAME OF THE EQUIPMENT	Quantity	TOTAL COST
1	Thermocouple Module (ITB005CE)	1	7596.55
2	Rtd Module(ITB006CE)	1	7210.58
3	Thermistor Module(ITB06ACE)	1	8043.92
4	Displacement Measurement Trainer Using Lvdt(ITB012CE)	1	11302.72
5	Pressure Measurement Trainer(ITB016CE)	1	13052.74
6	LDR / PHOTO DIODE / PHOTO Transistor Trainer(ITBO27CE)	1	6245.66
7	PH Measurement(VMET02)	1	8021.08
8	Conductivity Measurement Trainer(VMET05)	1	53305.75
9	Strain Measurement Trainer(ITB017CE)	1	9074.63
10	Discharge Coefficient Of Orifice Plate (VFMT03)	1	35289.76
11	Discharge Coefficient Of Venturi Meter (VFMT03A)	1	40333.66
12	Level Measurement Trainer(VLMT02)	1	70571.47
13	Speed Measurement By Stroboscope(strobometer)	1	40267.66
14	Torque Measurement Trainer(ITB013CE)	1	13684.32
15.	Digital Multimeter, Model No 19	8	11,232.00
16.	Energy Meter	1	720.00
17.	Multi Range Wattmeter	2	5000.00
18.	AC Ammeter (10)Amps	2	900.00
19.	AC Voltmeter	2	900.00
20.	Load 10 Holder Lighting Lamp Load In Wheeled Mesh Enclosure	1	6000.00
TOTAL			3,62,161.00

TRANSDUCER AND INDUSTRIAL INSTRUMENTS LAB

YEAR OF PURCHASE 2011-2012

SL.NO	NAME OF THE EQUIPMENT	QUANTITY	DATE OF PURCHASE
1	Thermocouple Module (ITB005CE)	1	19-04-2011
2	Rtd Module(ITB006CE)	1	19-04-2011
3	Thermistor Module(ITB06ACE)	1	19-04-2011
4	Displacement Measurement Trainer Using Lvdt(ITB012CE)	1	19-04-2011
5	Pressure Measurement Trainer(ITB016CE)	1	19-04-2011
6	LDR / PHOTO DIODE / PHOTO Transistor Trainer(ITBO27CE)	1	19-04-2011
7	PH Measurement(VMET02)	1	19-04-2011
8	Conductivity Measurement Trainer(VMET05)	1	19-04-2011
9	Strain Measurement Trainer(ITB017CE)	1	28-04-2011
10	Discharge Coefficient Of Orifice Plate (VFMT03)	1	28-04-2011
11	Discharge Coefficient Of Venturi Meter (VFMT03A)	1	28-04-2011
12	Level Measurement Trainer(VLMT02)	1	28-04-2011
13	Speed Measurement By Stroboscope(strobometer)	1	28-05-2011
14	Torque Measurement Trainer(ITB013CE)	1	28-05-2011
15	Digital Multimeter, Model No 19	8	05-07-2011

YEAR OF PURCHASE 2013-2014

SL.NO	NAME OF THE EQUIPMENT	QUANTITY	DATE OF PURCHASE
1	Energy Meter	1	10-12-2013
2	Multi Range Watt Meter	2	10-12-2013
3	AC Ammeter (10)Amps	2	10-12-2013
4	AC Voltmeter	2	10-12-2013
5	Load 10 Holder Lighting Lamp Load In Wheeled Mesh Enclosure	1	10-12-2013

Lab Incharge: Dr.T.Lakshmibai

Lab Instructor: Mr.K.Vinayagamoorthy

18. GUEST LECTURES AND VISITING FACULTY DETAILS

S.No.	Name of the Industrial expert visited & Address	Date
1	NIL	

19. STUDENT ACTIVITIES

1. Training Programme organized for students

S.No.	Date	Name of the programme	Report
		NIL	

2. Details of INDUSTRIAL VISITS

S.No.	Date	Company and Place	Report
1.	08/09/2023	Hatsun agro product limited & White gate Kanchipuram	Department of EIE, Mechatronics & ECE students with faculties visited Milk procurement testing lab, processing lab, distribution and logistics and animal husbandry area in Hatsun agro product limited & White gate Kanchipuram on 08/09/2023 
2	27/11/2023 Dattasai 11219H003 (III Year Mechatronics) and Sudhan babu 11229H002 (II Year Mechatronics)	ZF Rane Automotive India Private Limited GST main road, vallanchery, guduvanchery Chennai	On 25th November Dattasai & team visited ZF Rane Automotive Indian Private Limited company and interacted with people in the company, company people started with company introduction through PPT and explained about hydraulic power steering system and its working principle, finally had a good knowledge about rack, pinion, pump etc

			
3	28/11/23 Sai Phani 11219H002 Chandra (III Year Mechatronics)	VSSE-ISRO Thiruvananthapuram	Visited many prototypes models of satellites which are launched by ISRO, and solid engines, liquid engines (also vikas engine), cryogenic engines, Space capsule, many rockets like PSLV, GSLV, LVM3 etc and learned the miniature size components and batteries which are used in rockets and rovers. 
4	08/02/ 2024	Sankara Multi Speciality Hospital. Enathur	On February 8, 2024, students from Mechatronics Engineering of Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya (SCSVMV) embarked on visit to Sankara Multi Speciality Hospital located in Enathur, Kanchipuram. The visit provided students with valuable insights into the operations and processes involved in Advanced Bio Medical Instrumentation. Mr.M.Nandha Kumar, Executie Officer Sankara Multi Speciality Hospital, Konerikuppam Village, Enathur Road-Kanchipuram, 631561, commenced the visit with an introductory speech, elaborating on the operations and

			SANKARA MULTI SPECIALTY HOSPITAL PHOTO 
5	12-/2/, 2024	Hyundai Motors, Chennai	On February 12, 2024, students from Mechatronics Engineering, and Mechanical Engineering of Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya (SCSVMV) embarked on an industrial visit to Hyundai Motors located in Sriperumbudur. India's Second largest Car Manufacturer. The visit provided students with valuable insights into the operations and processes involved in automotive manufacturing. Mr. Harish Murali, a representative from Hyundai Motors, commenced the visit with an introductory speech, elaborating on the plant's operations since its inception in 1996. INDUSTRIAL VISIT HYUNDAI PHOTO 
6	13/03/2024	Stahl India Pvt, Neervalur, Near Enathur	On March 13, 2024, students from Mechatronics Engineering, and Mathematics of Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya

			(SCSVMV) embarked on an industrial visit to Stahl India Pvt located in Neervallur. The visit provided students with valuable insights into the operations and processes involved in Chemical Manufacturing Industry. Mr.Viswanathan, a representative from Stahl India Pvt, commenced the visit with an introductory speech, elaborating on the plant's operations. INDUSTRIAL VISIT STAHL INDIA PRIVATE LIMITED PHOTO 

3. Details of In-Plant Training

S.No.	Date	Name of the student	Duration	Place / Industry
1	1/1/2024	P Anantha Padmanabban	13 Days	Lucas TVS, Puducherry

4. Details of Internship

S.No.	Date	Name of the student	Duration	Place / Industry
1	10/07/2023 to 22/07/2023	V Raghul & Sai Lakshman	12 Days	India Cements, Dalawai plant, Kudaloor District
2	04/07/2023 to 21/07/2023	Dhulipala Dattasai	19 days	OIL AND NATURAL GAS CORPORATION,OGT - KAKINADA
3	20/01/2024	Chittaluri Sai Phanichandra	Training: ROS Basic: Program Robots!	Udemy/online

4	25/01/24	Chittaluri Sai Phanichandra	Training: Complete Arduino Course for beginners	Udemy/online
5	26/01/24	Chittaluri Sai Phanichandra	Training: Ubuntu Linux for Beginners	Udemy/online
6	19/02/24	Chittaluri Sai Phanichandra	Training: Experimental Robotics	NPTEL/online
7	22/01/24	Chittaluri Sai Phanichandra	Training: Rocket Propulsion	NPTEL/online
8	3/03/24	Chittaluri Sai Phanichandra	Training: Image processing with python PIL	Udemy/online
9	15/03/24	Chittaluri Sai Phanichandra	Training: Home automation using ESP32	GUVI/online
10	19/03/24	Chittaluri Sai Phanichandra	Training: CATIA V5	Linkedin/online
11	15/03/24	Chittaluri Sai Phanichandra	Workshop: Impact of Artificial Intelligence on Engineering	SCSVMV/Kanchipuram.
12	22/01/2024	P. Anantha Padmanabban	Training: A brief introduction to micro-sensors:	NPTEL/online
13	19/02/2024	P. Anantha Padmanabban	Training: Experimental robotics	NPTEL/online
14	15/03/2024	P. Anantha Padmanabban	Workshop: Impact of Artificial Intelligence on	Sri ChandraSekharendra Saraswathi Viswa Mahavidyalaya /Kanchipuram

			Engineering	
15	10/02/24	Sai Shravani Voleti	Learning AutoCAD 2024	LinkedIn Learning
16	24/02/24	Sai Shravani Voleti	AutoCAD Mechanical Essential Training	LinkedIn Learning
17	02/03/24	Sai Shravani Voleti	AutoCAD 2024 Essential Training	LinkedIn Learning
18	15/03/24	Sai Shravani Voleti	Workshop: Impact of Artificial Intelligence on Engineering	SCSVMV/Kanchipuram
19	21/03/24	Sai Shravani Voleti	Arduino UNO Based Obstacle Avoiding Robot Car & RC-Control	Udemy
20	15/03/24	Dhulipala Dattasai	Workshop: Impact of Artificial Intelligence on Engineering	Sri ChandraSekharendra Saraswathi Viswa Mahavidyalaya /Kanchipuram

5. Seminars / Conferences / Workshop / Training attended by the Students

S. No.	Date	Name of the students	Nature of the events	Institution /Place
1.	13/07/2023	Chittaluri Sai Phanichandra	Getting started with AWS startup programs and building your MVP on AWS	Amazon Web Services, online
2.	17/07/2023	Chittaluri Sai Phanichandra	NPTEL awareness E-	SCSVMV

			workshop	
3.	25/07/2023 to 30/07/2023	Chittaluri Sai Phanichandra	GUVI platform in Python	Python Programming, Online
4.	10/09/2023	Chittaluri Sai Phanichandra	Arduino Uno (Training)	Udemy/online
5.	12/09/23	Chittaluri Sai Phanichandra	Build a face recognition application using python(Training)	Guvi/online
6.	02/10/23	Chittaluri Sai Phanichandra	Home automation using esp32(Training)	Guvi/online
7.	11-10-2023	Dhulipala Dattasai	Hands on Training	Pantech Chennai
8.	26-10-2023	Mechatronics 2nd year to final year students	NATIONAL – MEGA QUIZ - CHANDRAYAAN 3 MAHA QUIZ	ISRO, ANDHRA PRADESH, INDIA
9.	27/10/23	Chittaluri Sai Phanichandra	Robotic process and automation(Training)	Guvi/online
10.	18/11/23	Chittaluri Sai Phanichandra	Introduction to Artificial Intelligence(Training)	Harvard University/online
11.	19/12/23	Chittaluri Sai Phanichandra	New Space: Access to space - Basics (Training)	ISAE-SUPAERO-Toulouse University/online
12.	28/12/23	Chittaluri Sai Phanichandra	Ethical Hacking: Web Enumeration (Training)	Udemy/online
13.	14/01/2024	Chittaluri Sai Phanichandra	Rocket Propulsion (Training)	NPTEL/Online

14.	11/10/23	Ch. Sai Phanichandra, P Anantha Padmanabban, Dhullipalla Datta Sai, Sri Sai Shravani Voleti, N.Tirumala Hardik Srivatsa, G.Sudhan, V.Raghul, Koushik Bharadwaj V	Workshop on IOTwith Hands on Training	Dept of EIE, SCSVMV, Physical mode

6. Details of Students' achievement in Research (Paper / Project presented by the Students)

S.No.	Date	Name of the Student(s)	Name of the Event	Title of the paper/Project	Institution & Place
1.	26/03/24	P Anantha Padmanabban & Chittaluri Sai Phanichandra	TECFEST 2024	Exploring Digital Modulation Techniques: An Interactive analysis using LabVIEW.	TAGORE Engineering college/ Rathinamangalam,Chennai
2.	26/03/24	Dhulipala Dattasai & Sai Shravani Voleti	TECFEST 2024	Digital Electronics Circuit Simulation: Implementing LabView Virtual Prototyping	TAGORE Engineering college/ Rathinamangalam,Chennai

7. Details of Placement activities

S.No.	**Month & Year**	**Name of the Company**	**No. of student selected**	**Minimum - Maximum Package**
1.	2023-2024	1. Company Name: Motherson 2. Company Name: Q Spider	2 V.Raghul (11209H001) Sai Lakshmanan (11209H002)	Salary: 2.64 LPA Salary: 3.8 LPA

2	March 2024	National Plastic Technologies Pvt Ltd, Oragadam	1 V.Raghul (11209H001)	2LPA-3LPA

20. STUDENS FEEDBACK

FEED BACK 2023-24

ODD SEM

EIE DEPT

Department of EIE
Student Feedback Staff wise Summary (Odd Sem2023-24)

S.no	Prefix	Name	Sem	Subject_Name	Excelent	Very Good	Good	Average	Poor	NoOf Stud	Point	Score
1	Dr.	T.LAKSHMIBAI	5	POWER ELECTRONICS AND INDUSTRIAL DRIVES LAB	4	0	0	0	0	4	40	100.00
2	Dr.	T.LAKSHMIBAI	5	FPOWER ELECTRONICS AND INDUSTRIAL DRIVES	4	0	0	0	0	4	40	100.00
3	Dr.	T.LAKSHMIBAI	7	PROJECT WORK- PHASE 1	1	0	0	0	0	1	10	100.00
4	Dr.	T.LAKSHMIBAI	7	AIRCRAFT INSTRUMENTATION	1	0	0	0	0	1	10	100.00
5	Dr.	T.LAKSHMIBAI	7	AIRCRAFT INSTRUMENTATION	1	0	0	0	0	1	10	100.00
6	Dr.	T.LAKSHMIBAI	7	PROJECT WORK- PHASE 1	1	0	0	0	0	1	10	100.00
7	Dr.	JANANI R	3	Digital electronics and microprocessors	1	0	0	0	0	1	10	100.00
8	Dr.	JANANI R	5	Principle of Communication	2	0	1	0	0	3	26	86.67
9	Dr.	JANANI R	7	EMBEDDED SYSTEMS	1	0	0	0	0	1	10	100.00

10	Dr.	JANANI R	7	EMBEDDED SYSTEMS	1	0	0	0	0	1	10	100.00
11	Dr	K.SARASWATHI	3	Soft Skill - I	1	0	1	0	0	2	16	80.00
12	Dr	K.SARASWATHI	5	ANALYTICAL INSTRUMENTATION	4	0	0	0	0	4	40	100.00
13	Dr	K.SARASWATHI	7	ROBOTICS AND AUTOMATION	1	0	0	0	0	1	10	100.00
14	Dr	K.SARASWATHI	7	ROBOTICS AND AUTOMATION	1	0	0	0	0	1	10	100.00
15	Dr	K.SARASWATHI	7	ROBOTICS AUTOMATION& PROCESS CONTROL LAB	1	0	0	0	0	1	10	100.00
16	Dr	K.SARASWATHI	7	ROBOTICS AUTOMATION& PROCESS CONTROL LAB	1	0	0	0	0	1	10	100.00
17	Dr.	SUNDAR.T	3	Digital Electronics	8	3	2	0	0	13	116	89.23
18	Dr.	SUNDAR.T	3	Digital Electronics	1	0	0	0	0	1	10	100.00
19	Dr.	SUNDAR.T	5	ELECTRICAL AND MECHANICAL MEASUREMENTS	4	0	0	0	0	4	40	100.00
20	Dr.	K.SUGAPRIYA	3	Sensors & Actuators	1	1	0	0	0	2	18	90.00

21	Dr.	K.SUGAPRIYA	5	CONTROL SYSTEMS	4	0	0	0	0	4	40	100.00
22	Dr.	K.SUGAPRIYA	3	Digital Electronics Lab	8	3	2	0	0	13	116	89.23
23	Dr.	BOOVARAHAN	3	Electronic Devices and Circuits #	1	1	0	0	0	2	18	90.00
24	Dr.	BOOVARAHAN	3	Electronic Devices and Circuits Lab	1	1	0	0	0	2	18	90.00
25	Mr.	SUBRAMANIYAN	3	BASICS OF SENSORS AND ACTUATORS	1	1	0	0	0	2	18	90.00
26	Mr.	SUBRAMANIYAN	7	PROCESS CONTROL LAB	4	0	0	0	0	4	40	100.00

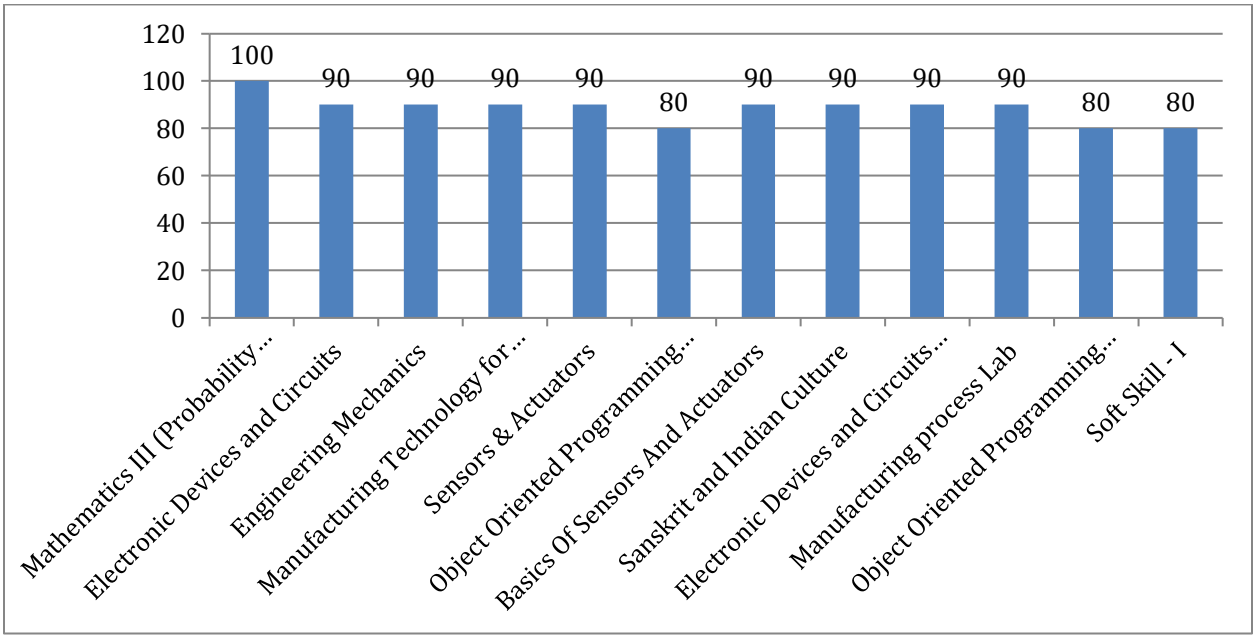
Department of EIE

Student Feedback Class wise Summary - II Year (Mechatronics) (2022-2026)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr.E. Geetha	3	Mathematics III (Probability and Statistics)	3	100
2	Dr.N.C.A.Boovarahan	3	Electronic Devices and Circuits	3	90
3	Dr. A. Nandha Kumar	3	Engineering Mechanics	3	90
4	Dr. S. D. Sathishkumar	3	Manufacturing Technology for Mechatronics	3	90
5	Dr.K. Sugapriya	3	Sensors & Actuators	3	90
6	Dr.K.Anitha	3	Object Oriented Programming	3	80
7	Mr. G. Subramanaiyan	3	Basics Of Sensors And Actuators	3	90
8	Dr.K.S. Sivakumar	3	Sanskrit and Indian Culture	3	90
9	Dr.N.C.A.Boovarahan	3	Electronic Devices and Circuits	3	90
10	Dr. S.D. Sathishkumar	3	Manufacturing process Lab	3	90
11	Dr.K.Anitha	3	Object Oriented Programming Using C++ Lab	3	80
12	Dr.K. Saraswathi	3	Soft Skill – I	3	80

Department of EIE

Student Feedback Class wise Summary - II Year (Mechatronics) (2022-2026)



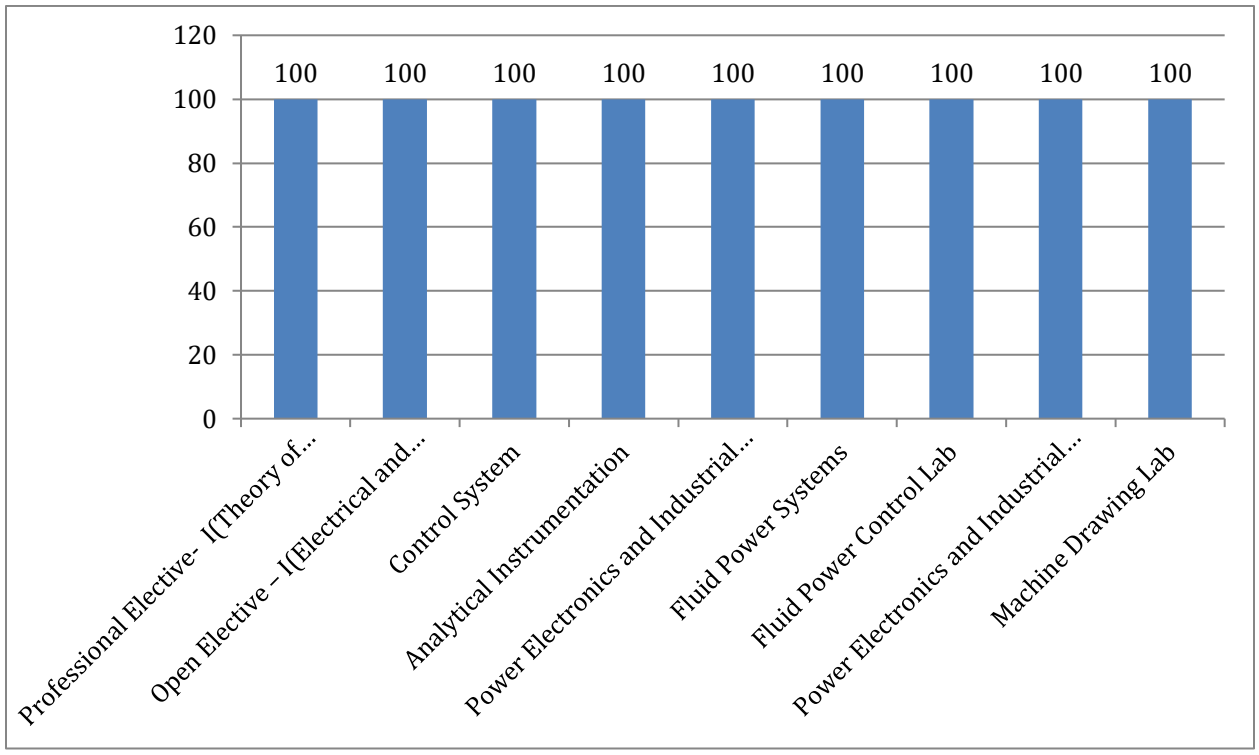
Department of EIE

Student Feedback Class wise Summary - III Year (Mechatronics) (2021-2025)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr. R. Vnayagamoorthy	5	Professional Elective- I(Theory of Machines)	4	100
2	Dr.T.Sundar	5	Open Elective – I(Electrical and Mechanical Measurements)	4	100
3	Dr.K.Sugapriya	5	Control System	4	100
4	Dr.K. Saraswathi	5	Analytical Instrumentation	4	100
5	Dr. T.Lakshmibai	5	Power Electronics and Industrial Drives	4	100
6	Dr. S. Vijayabhaskar	5	Fluid Power Systems	4	100
7	Dr. S. Vijayabhaskar	5	Fluid Power Control Lab	4	100
8	Dr. T.Lakshmibai	5	Power Electronics and Industrial Drives Lab	4	100
9	Dr. S.D.Sathishkumar	5	Machine Drawing Lab	4	100

Department of EIE

Student Feedback Class wise Summary - III Year (Mechatronics) (2021-2025)



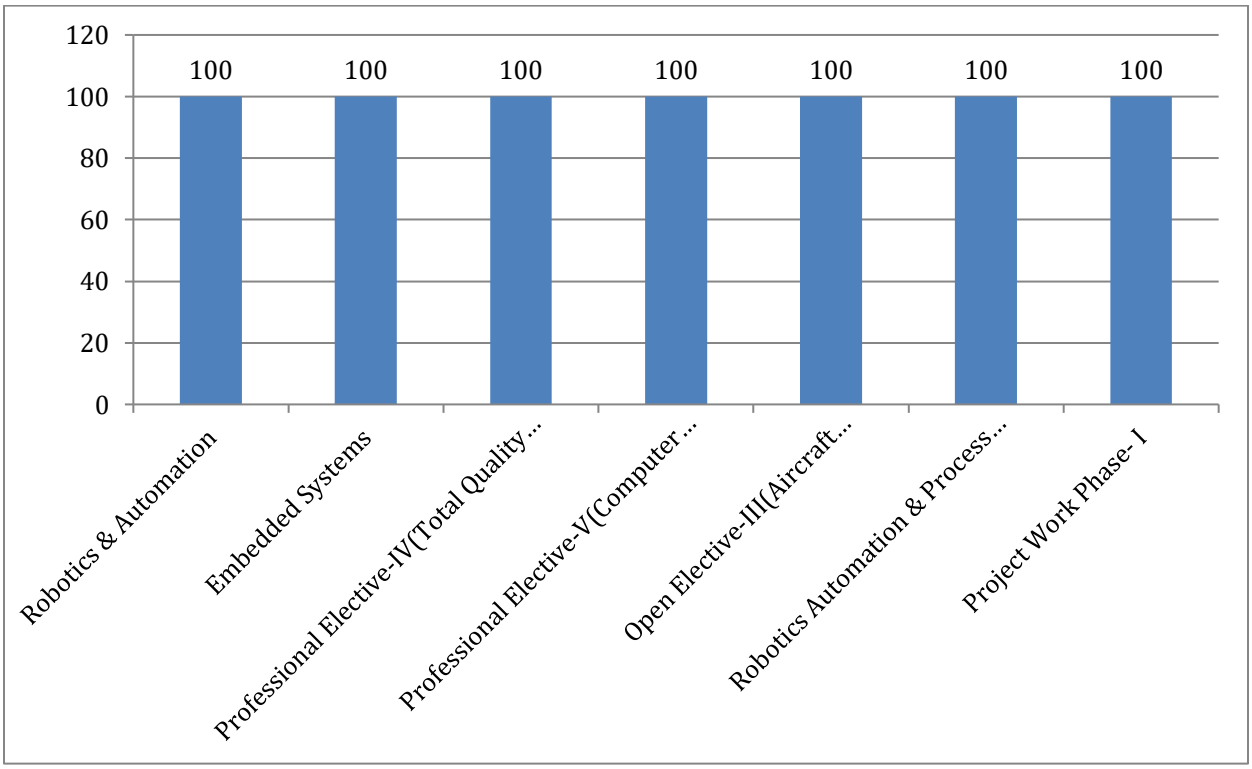
Department of EIE

Student Feedback Class wise Summary - IV Year (Mechatronics) (2020-2024)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr.K. Saraswathi	7	Robotics & Automation	2	100
2	Dr.R.Janani	7	Embedded Systems	2	100
3	Dr. R. Balakumar	7	Professional Elective-IV(Total Quality Management)	2	100
4	Dr. D. Vijayan	7	Professional Elective-V(Computer Integrated Manufacturing)	2	100
5	Dr.T. Lakshmibai	7	Open Elective-III(Aircraft Instrumentation)	2	100
6	Dr.K. Saraswathi	7	Robotics Automation & Process Control Lab	2	100
7	Dr.T. Lakshmibai	7	Project Work Phase- I	2	100

Department of EIE

Student Feedback Class wise Summary - IV Year (Mechatronics) (2020-2024)



FEED BACK 2023-24

EVEN SEM

EIE DEPT

Student Feedback Staff wise Summary (EVEN Sem2023-24)

S.no	Prefix	Name	Sem	Subject_Name	Excelent	Very Good	Good	Average	Poor	NoOf Stud	Point	Score
1	Dr.	T.LAKSHMIBAI	8	Professional Elective VII- IOT in Automation	1	0	0	0	0	1	10	100.00
2	Dr.	T.LAKSHMIBAI	8	Project Work Phase-II	1	0	0	0	0	1	10	100.00
3	Dr.	JANANI R	4	Microprocessor and Microcontroller	16	1	4	0	0	21	192	91.43
4	Dr.	JANANI R	4	Microprocessor and Microcontroller	2	0	0	0	0	2	20	100.00
5	Dr.	JANANI R	4	Microprocessor and Microcontroller Lab	14	3	4	0	0	21	188	89.52
6	Dr.	JANANI R	4	Microprocessor and Microcontroller Lab	0	2	0	0	0	2	16	80.00
7	Dr.	JANANI R	6	Principles of Management and Professional Ethics	4	0	0	0	0	4	40	100.00
8	Dr	K.SARASWATHI	4	Industrial Instrumentation	2	0	0	0	0	2	20	100.00
9	Dr	K.SARASWATHI	4	Industrial Instrumentation	0	1	0	0	0	1	8	80.00
10	Dr	K.SARASWATHI	4	Programmable logic controllers	0	1	0	0	0	1	8	80.00

11	Dr	K.SARASWATHI	4	Soft Skill –II *	1	0	0	0	0	1	10	100.00
12	Dr	K.SARASWATHI	4	Soft Skill –II *	1	1	0	0	0	2	18	90.00
13	Dr	K.SARASWATHI	4	PROGRAME LOGIC CONTROLLERS	1	0	0	0	0	1	10	100.00
14	Dr	K.SARASWATHI	6	PLC & Data Acquisition System	4	0	0	0	0	4	40	100.00
15	Dr	K.SARASWATHI	6	PLC and Virtual Instrumentation Lab	4	0	0	0	0	4	40	100.00
16	Dr.	SUNDAR.T	4	Medical Sensors	1	1	0	0	0	2	18	90.00
17	Dr.	SUNDAR.T	4	Medical Sensors	1	0	0	0	0	1	10	100.00
18	Dr.	SUNDAR.T	6	Open Elective II- Bio Medical Instrumentation	4	0	0	0	0	4	40	100.00
19	Dr.	SUNDAR.T	6	Soft Skill - IV*	4	0	0	0	0	4	40	100.00
20	Dr.	SUNDAR.T	8	Open Elective IV- Nano Technology	1	0	0	0	0	1	10	100.00
21	Dr.	SUNDAR.T	8	PROCESS CONTROL LAB	1	0	0	0	0	1	10	100.00
22	Dr	K.SUGAPRIYA	4	Digital Electronics	1	1	0	0	0	2	18	90.00
23	Dr	K.SUGAPRIYA	4	Digital Electronics	0	1	0	0	0	1	8	80.00
24	Dr	K.SUGAPRIYA	4	ROBOTICS TECHNOLOGY & CHARACTERIZATIONS TECHNIQUES	1	0	0	0	0	1	10	100.00

25	Dr	K.SUGAPRIYA	4	Robotics Technology Characterization & Techniques	0	1	0	0	0	1	8	80.00
26	Dr	K.SUGAPRIYA	4	Linear Integrated Circuits & Digital Electronics Lab	1	0	1	0	0	2	16	80.00
27	Dr	K.SUGAPRIYA	4	Linear Integrated Circuits & Digital Electronics Lab	1	0	0	0	0	1	10	100.00
28	Dr	K.SUGAPRIYA	6	Professional Elective II- Principles of Communication	4	0	0	0	0	4	40	100.00
29	Dr	NCA BOOVARAHAN	4	Linear Integrated Circuits	1	1	0	0	0	2	18	90.00
30	Dr	NCA BOOVARAHAN	4	Linear Integrated Circuits	1	0	0	0	0	1	10	100.00
31	Dr	NCA BOOVARAHAN	6	Microprocessors and Microcontrollers	4	0	0	0	0	4	40	100.00
32	Dr	NCA BOOVARAHAN	6	Embedded System	0	0	2	0	0	2	12	60.00
33	Dr	NCA BOOVARAHAN	6	Microprocessors and Microcontrollers Lab	4	0	0	0	0	4	40	100.00

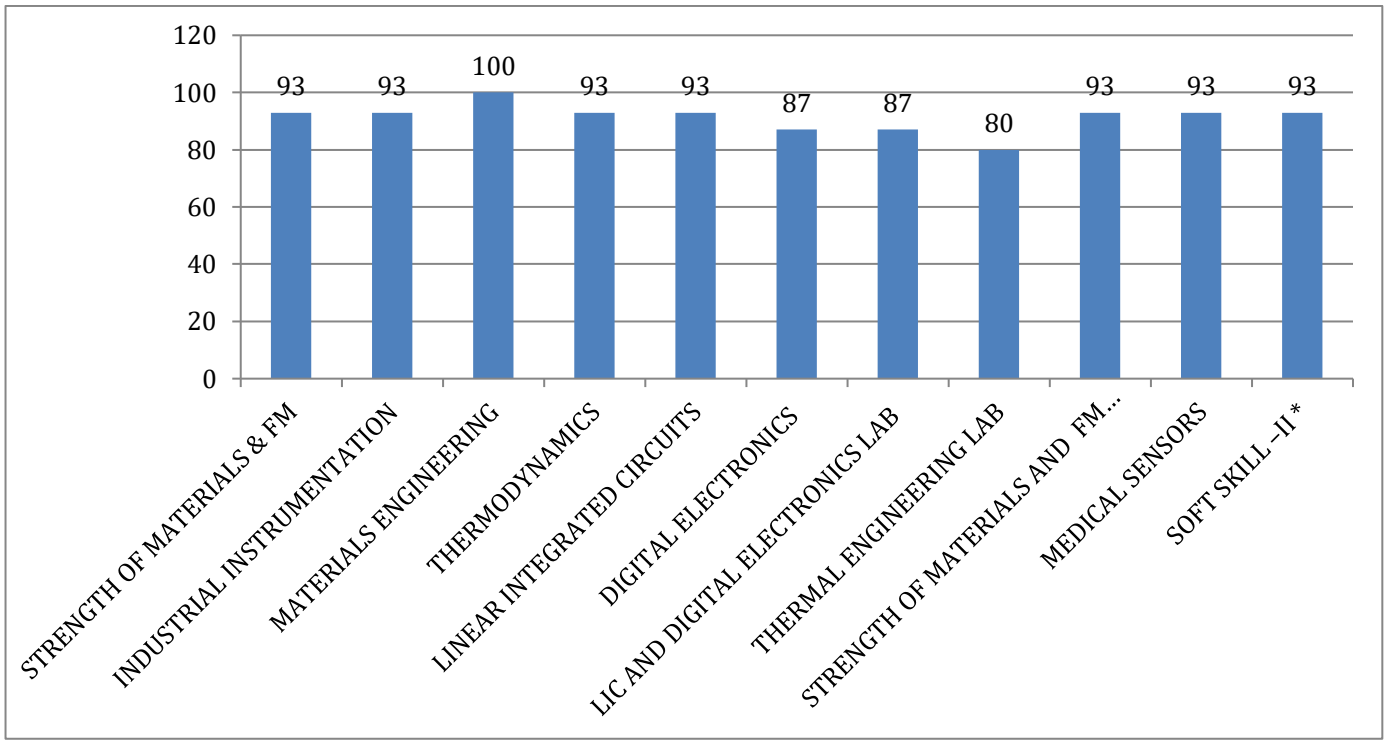
Department of EIE

Student Feedback Class wise Summary - II Year (Mechatronics) (2022-2026)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr. R. Vinayagamoorthi	4	STRENGTH OF MATERIALS & FLUID MECHANICS	3	93
2	Dr.K. Saraswathi	4	INDUSTRIAL INSTRUMENTATION	3	93
3	Dr. R. Ellayappan	4	MATERIALS ENGINEERING	3	100
4	Dr. S. Arumugam	4	THERMODYNAMICS	3	93
5	Dr. NCA. Boovarahan	4	LINEAR INTEGRATED CIRCUITS	3	93
6	Dr. K. Sugapriya	4	DIGITAL ELECTRONICS	3	87
7	Dr. K. Sugapriya	4	LIC AND DIGITAL ELECTRONICS LAB	3	87
8	Dr. S. Arumugam	4	THERMAL ENGINEERING LAB	3	80
9	Dr. G. Venkatakoteswara	4	STRENGTH OF MATERIALS AND FLIUD MECHANICS LAB	3	93
10	Dr. T. Sundar	4	MEDICAL SENSORS	3	93
11	Dr.K. Saraswathi	4	SOFT SKILL –II *	3	93

Department of EIE

Student Feedback Class wise Summary - II Year (Mechatronics) (2022-2026)



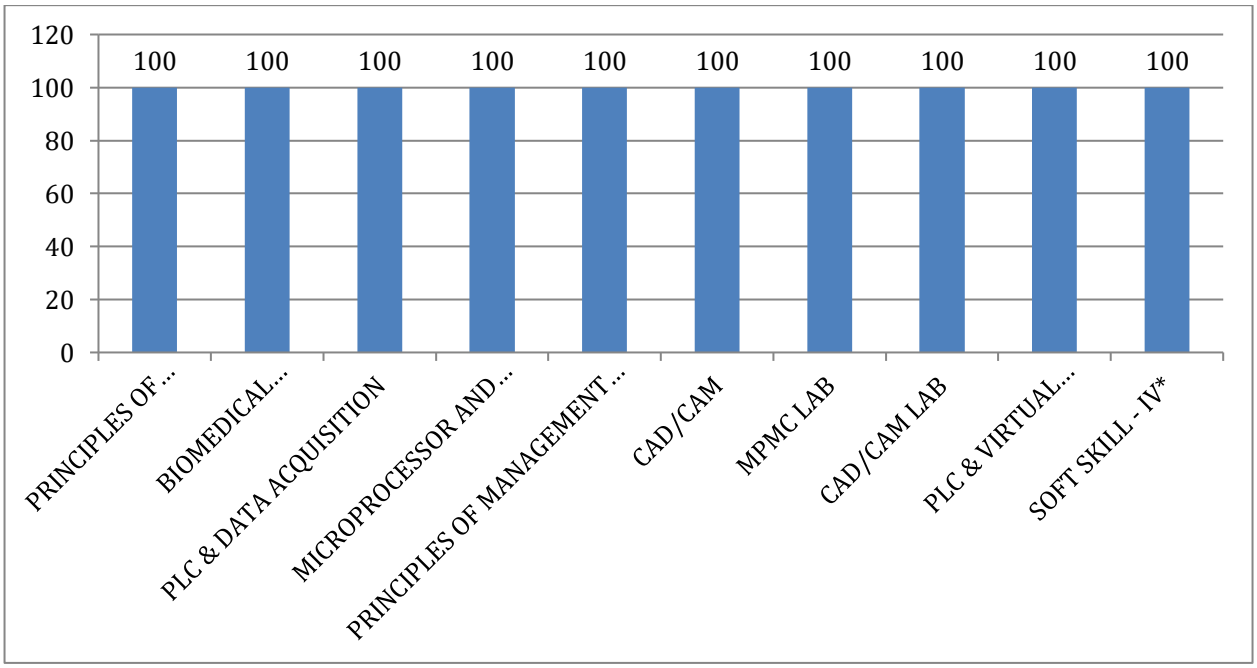
Department of EIE

Student Feedback Class wise Summary - III Year (Mechatronics) (2021-2025)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr. K. Sugapriya	6	PRINCIPLES OF COMMUNICATION	4	100
2	Dr. T. Sundar	6	BIOMEDICAL INSTRUMENTATION	4	100
3	Dr. K. Saraswathi	6	PLC & DATA ACQUISITION	4	100
4	Dr. NCA. Boovarahan	6	MICROPROCESSOR AND MICROCONTROLLER	4	100
5	Dr. Janani.R	6	PRINCIPLES OF MANAGEMENT & PROFESSIONAL ETHICS	4	100
6	Dr. D. Vijayan	6	CAD/CAM	4	100
7	Dr. NCA. Boovarahan	6	MICROPROCESSOR AND MICROCONTROLLER LAB	4	100
8	Dr. D. Vijayan	6	CAD/CAM LAB	4	100
9	Dr. K. Saraswathi	6	PLC & VIRTUAL INSTRUMENTATION LAB	4	100
10	Dr. T. Sundar	6	SOFT SKILL - IV*	4	100

Department of EIE

Student Feedback Class wise Summary - III Year (Mechatronics) (2021-2025)



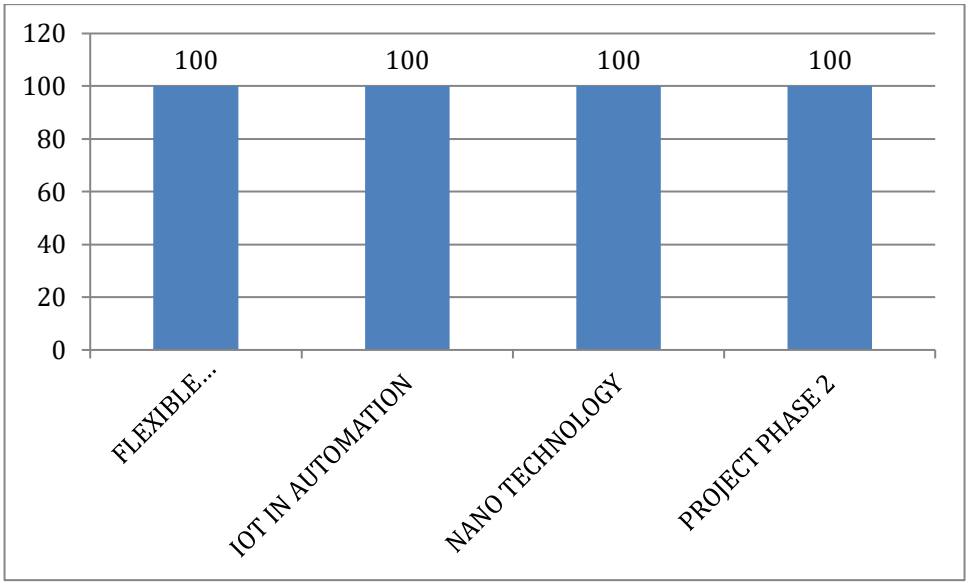
Department of EIE

Student Feedback Class wise Summary - IV Year (Mechatronics) (2020-2024)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr. S.D. Sathishkumar	8	FLEXIBLE MANUFACTURING SYSTEMS	2	100
2	Dr. T. Lakshmibai	8	IOT IN AUTOMATION	2	100
3	Dr. T. Sundar	8	NANO TECHNOLOGY	2	100
4	Dr. T. Lakshmibai	8	PROJECT PHASE 2	2	100

Department of EIE

Student Feedback Class wise Summary - IV Year (Mechatronics) (2020-2024)



21. RESULT ANALYSIS (2023-2024)

OVER ALL PASS PERCENTAGE FOR ODD SEMESTER (2023-2024)

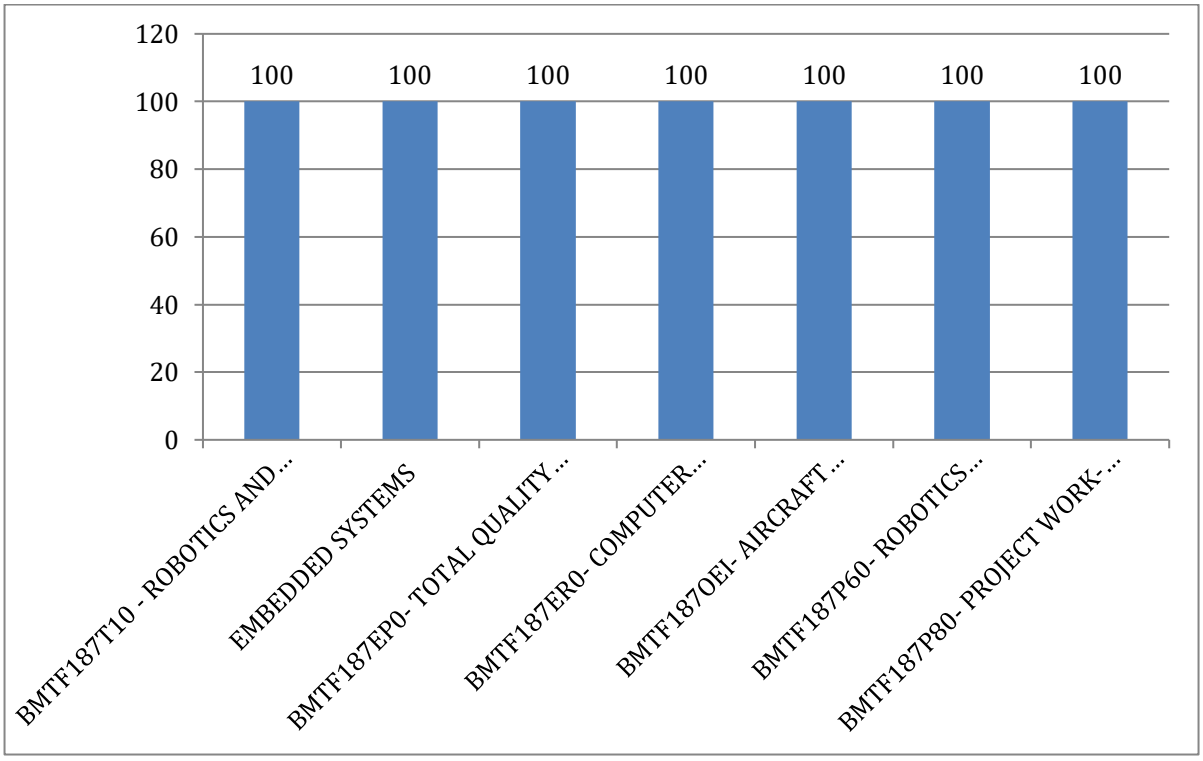
MECHATRONICS ENGINEERING

YEAR/SEM	BATCH	PASS PERCENTAGE
4th Year /7th Sem	2020-2024	100
3rd Year /5th Sem	2021-2025	100
2nd Year/3rd Sem	2022-2026	96.9

OVER ALL PASS PERCENTAGE FOR ODD SEMESTER (2023-2024)

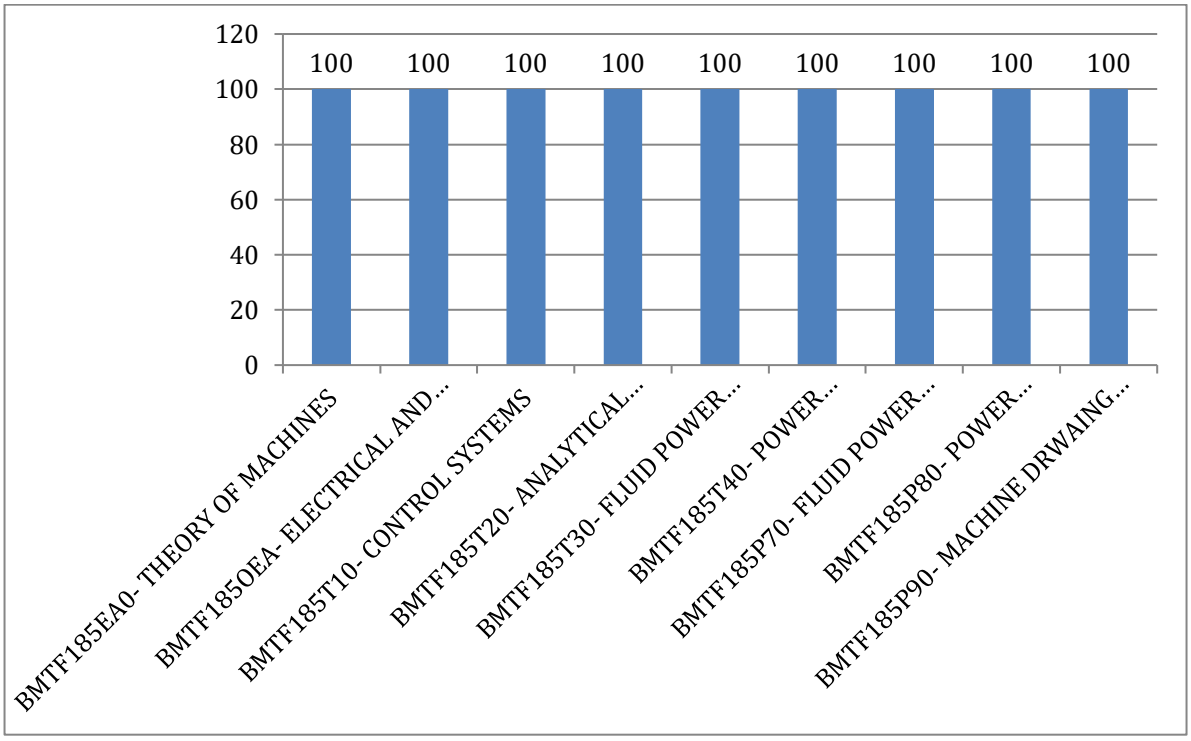
4th year/7th sem

S.NO.	SUBJECT	Pass Percentage
1	BMTF187T10 - ROBOTICS AND AUTOMATION	100
2.	EMBEDDED SYSTEMS	100
3.	BMTF187EP0- TOTAL QUALITY MANAGEMENT	100
4.	BMTF187ER0- COMPUTER INTEGRATED MANUFACTURING	100
5.	BMTF187OEI- AIRCRAFT INSTRUMENTATION	100
6.	BMTF187P60- ROBOTICS AUTOMATION& PROCESS CONTROL LAB	100
7.	BMTF187P80- PROJECT WORK- PHASE 1	100



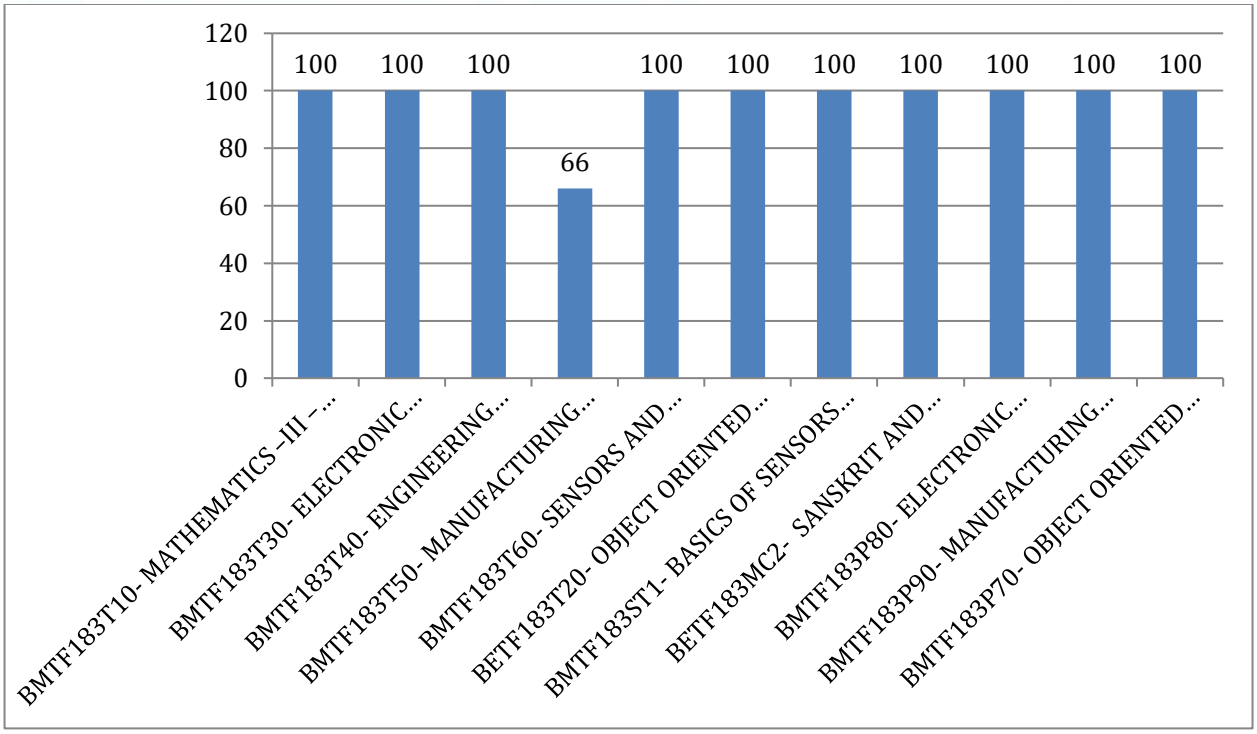
3rd year/5th sem

S.NO.	SUBJECT	Pass Percentage
1	BMTF185EA0- THEORY OF MACHINES	100
2.	BMTF185OEA- ELECTRICAL AND MECHANICAL MEASUREMENTS	100
3.	BMTF185T10- CONTROL SYSTEMS	100
4.	BMTF185T20- ANALYTICAL INSTRUMENTATION	100
5.	BMTF185T30- FLUID POWER SYSTEMS	100
6.	BMTF185T40- POWER ELECTRONICS AND INDUSTRIAL DRIVES	100
7.	BMTF185P70- FLUID POWER CONTROL LAB	100
8.	BMTF185P80- POWER ELECTRONICS AND INDUSTRIAL DRIVES LAB	100
9.	BMTF185P90- MACHINE DRWAING LAB	100



2nd year/3rd sem

S.NO.	SUBJECT	Pass Percentage
1	BMTF183T10- MATHEMATICS –III – PROBABILITY AND STATISTICS	100
2.	BMTF183T30- ELECTRONIC DEVICES AND CIRCUITS	100
3.	BMTF183T40- ENGINEERING MECHANICS	100
4.	BMTF183T50- MANUFACTURING TECHNOLOGY FOR MECHATRONICS	66
5.	BMTF183T60- SENSORS AND ACTUATORS	100
6.	BETF183T20- OBJECT ORIENTED PROGRAMMING LANGUAGE USING C++	100
7.	BMTF183ST1- BASICS OF SENSORS AND ACTUATORS	100
8.	BETF183MC2- SANSKRIT AND INDIAN CULTURE	100
9.	BMTF183P80- ELECTRONIC DEVICES AND CIRCUITS LAB	100
10.	BMTF183P90- MANUFACTURING PROCESS LAB	100
11.	BMTF183P70- OBJECT ORIENTED PROGRAMMING LANGUAGE USING C++ LAB	100



OVER ALL PASS PERCENTAGE FOR EVEN SEMESTER (2023-2024)

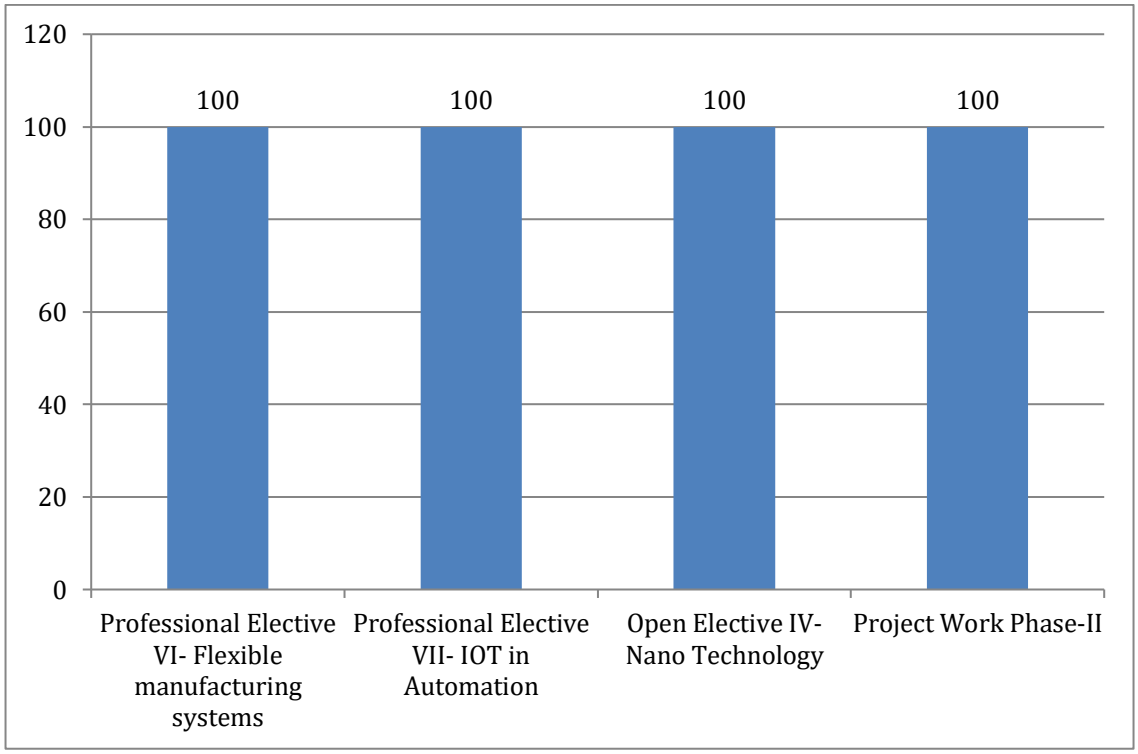
MECHATRONICS ENGINEERING

YEAR/SEM	BATCH	PASS PERCENTAGE
4th Year /8th Sem	2020-2024	100
3rd Year /6th Sem	2021-2025	100
2nd Year/4th Sem	2022-2026	87.8

OVER ALL PASS PERCENTAGE FOR EVEN SEMESTER (2023-2024)

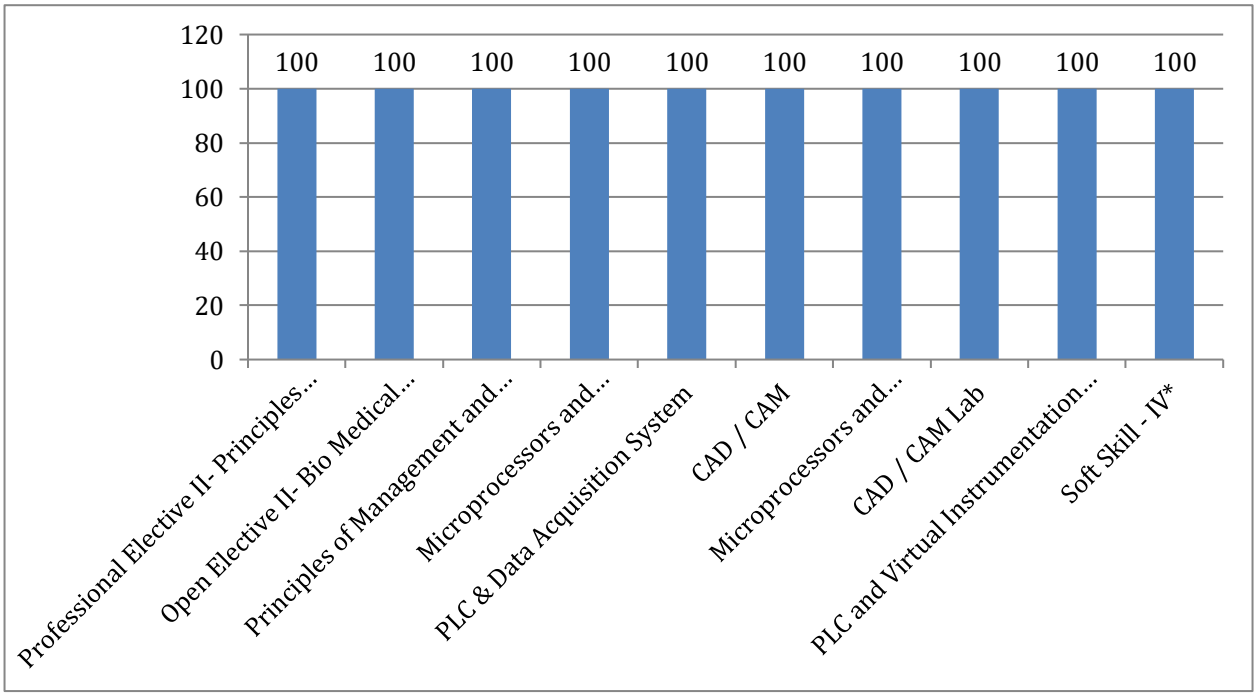
4th year/8th sem

S.NO.	SUBJECT	Pass Percentage
1	Professional Elective VI- Flexible manufacturing systems	100
2	Professional Elective VII- IOT in Automation	100
3	Open Elective IV- Nano Technology	100
4	Project Work Phase-II	100



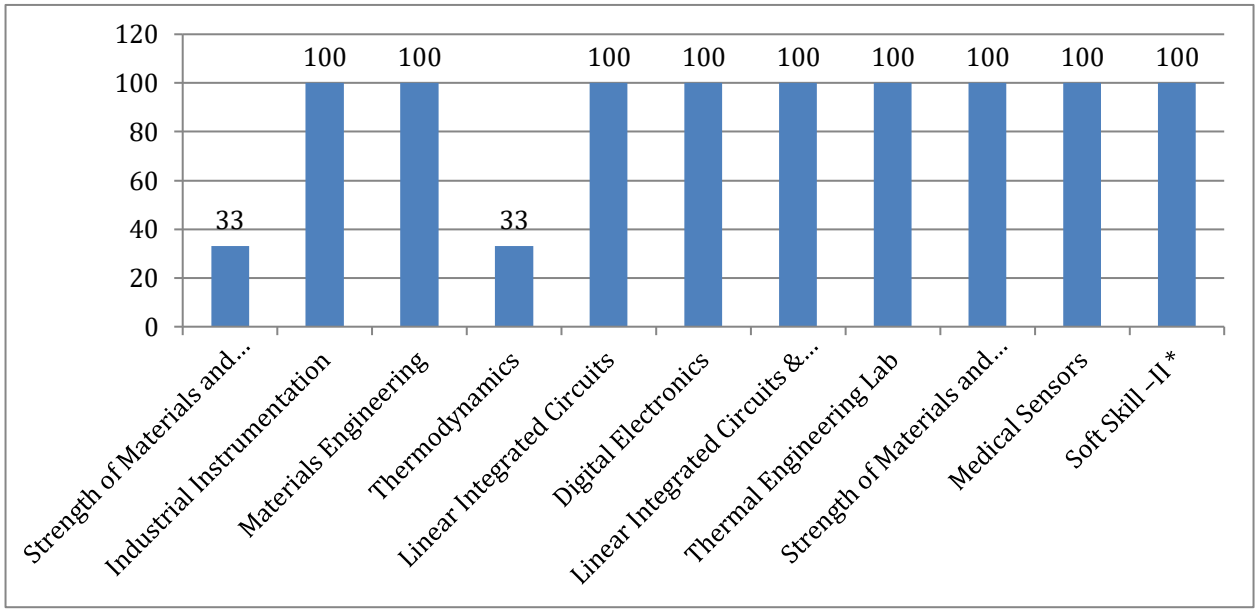
3rd year/6th sem

S.NO.	SUBJECT	Pass Percentage
1	Professional Elective II- Principles of Communication	100
2	Open Elective II- Bio Medical Instrumentation	100
3	Principles of Management and Professional Ethics	100
4	Microprocessors andMicrocontrollers	100
5	PLC & Data AcquisitionSystem	100
6	CAD / CAM	100
7	Microprocessors and Microcontrollers Lab	100
8	CAD / CAM Lab	100
9	PLC and Virtual Instrumentation Lab	100
10	Soft Skill - IV*	100



2nd year/4th sem

S.NO.	SUBJECT	Pass Percentage
1	Strength of Materials andFluid Mechanics	33
2	Industrial Instrumentation	100
3	Materials Engineering	100
4	Thermodynamics	33
5	Linear Integrated Circuits	100
6	Digital Electronics	100
7	Linear Integrated Circuits &Digital Electronics Lab	100
8	Thermal Engineering Lab	100
9	Strength of Materials andFluid Mechanics Lab	100
10	Medical Sensors	100
11	Soft Skill –II *	100



22. PLACEMENT ACTIVITY DETAILS

IV Year-Mechatronics (2020-2024) Batch

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

PHOTO	PHOTO
	
Name: V. Raghul	Name: Venkata Sai Lakshman
Reg.No: 11209H001	Reg.No: 11209H002
3. Company Name: Motherson Designation: IMG Salary: 2.64 LPA 4. Company Name: Q Spider Designation: Software Development Salary: 3.8 LPA 5. Company Name: National Auto Plastic Designation: GET Salary: 3.5 LPA	1. Company Name: Motherson Designation: QA Salary: 2.64 LPA 2. Company Name: Q Spider Designation: Software Development Salary: 3.8 LPA

LIST OF COMPANIES VISITED FOR PLACEMENT

Cognizant

KIRAN UDYOD PVT. LIMITED

CSL
Chemtron Science Laboratories Pvt. Ltd.

SUTHERLAND

VALCO MELTON

Tech Mahindra

BOSCH

eHelium

CMC Limited
Your IT Partner

motherson

Spiders

23. WORK COMPLETION REPORT

(To be submitted by faculty before proceeding on vacation/any other leave at end of semester)

YEAR 2023-24

I, **T.LAKSHMIBAI,** confirm that I have

a. Completed the teaching work assigned to me for this semester and completed the syllabus **YES/~~NO~~**
b. I have conducted the required evaluation components for all courses and the results (mark Statement) have been handed over to the department **YES/~~NO~~**
c. I have completed all other administrative tasks assigned to me for this semester. **YES/~~NO~~**
d. I have reported all my research-related/even participation activities in the department intranet software(LMS), and I understand that this data will be used for preparation of department activity reports **YES/~~NO~~**
e. I have returned all department library books and no books are pending against my name. **YES/~~NO~~**
f. I have submitted leave applications for all leaves taken by me this semester, and there no pending applications **YES/~~NO~~**

Signature of Staff: _____

Date: _____

I, **JANANI.R,** confirm that I have

a. Completed the teaching work assigned to me for this semester and completed the syllabus **YES/~~NO~~**
b. I have conducted the required evaluation components for all courses and the results (mark Statement) have been handed over to the department **YES/~~NO~~**
c. I have completed all other administrative tasks assigned to me for this semester. **YES/~~NO~~**
d. I have reported all my research-related/even participation activities in the department intranet software(LMS), and I understand that this data will be used for preparation of department activity reports **YES/~~NO~~**
e. I have returned all department library books and no books are pending against my name. **YES/~~NO~~**
f. I have submitted leave applications for all leaves taken by me this semester, and there no pending applications **YES/~~NO~~**

Signature of Staff: _____

Date: _____

I, **K.SARASWATHI,** confirm that I have

a. Completed the teaching work assigned to me for this semester and completed the syllabus **YES/~~NO~~**

b. I have conducted the required evaluation components for all courses and the results (mark Statement) have been handed over to the department **YES/~~NO~~**

c. I have completed all other administrative tasks assigned to me for this semester. **YES/~~NO~~**

d. I have reported all my research-related/even participation activities in the department intranet software(LMS), and I understand that this data will be used for preparation of department activity reports **YES/~~NO~~**

e. I have returned all department library books and no books are pending against my name. **YES/~~NO~~**

f. I have submitted leave applications for all leaves taken by me this semester, and there no pending applications **YES/~~NO~~**

Signature of Staff: _____

Date: _____

I, **T.SUNDAR,** confirm that I have

a. Completed the teaching work assigned to me for this semester and completed the syllabus **YES/~~NO~~**

b. I have conducted the required evaluation components for all courses and the results (mark Statement) have been handed over to the department **YES/~~NO~~**

c. I have completed all other administrative tasks assigned to me for this semester. **YES/~~NO~~**

d. I have reported all my research-related/even participation activities in the department intranet software(LMS), and I understand that this data will be used for preparation of department activity reports **YES/~~NO~~**

e. I have returned all department library books and no books are pending against my name. **YES/~~NO~~**

f. I have submitted leave applications for all leaves taken by me this semester, and there no pending applications **YES/~~NO~~**

Signature of Staff: _____

Date: _____

I, **K.SUGAPRIYA,** confirm that I have

a. Completed the teaching work assigned to me for this semester and completed the syllabus **YES/~~NO~~**
b. I have conducted the required evaluation components for all courses and the results (mark Statement) have been handed over to the department **YES/~~NO~~**
c. I have completed all other administrative tasks assigned to me for this semester. **YES/~~NO~~**
d. I have reported all my research-related/even participation activities in the department intranet software(LMS), and I understand that this data will be used for preparation of department activity reports **YES/~~NO~~**
e. I have returned all department library books and no books are pending against my name. **YES/~~NO~~**
f. I have submitted leave applications for all leaves taken by me this semester, and there no pending applications **YES/~~NO~~**

Signature of Staff: _____

Date: _____

I, **N.C.A.BOOVARAHAN,** confirm that I have

a. Completed the teaching work assigned to me for this semester and completed the syllabus **YES/~~NO~~**
b. I have conducted the required evaluation components for all courses and the results (mark Statement) have been handed over to the department **YES/~~NO~~**
c. I have completed all other administrative tasks assigned to me for this semester. **YES/~~NO~~**
d. I have reported all my research-related/even participation activities in the department intranet software(LMS), and I understand that this data will be used for preparation of department activity reports **YES/~~NO~~**
e. I have returned all department library books and no books are pending against my name. **YES/~~NO~~**
f. I have submitted leave applications for all leaves taken by me this semester, and there no pending applications **YES/~~NO~~**

Signature of Staff: _____

Date: _____

24. WORK PLAN- ACADEMIC PLANS FOR ENSUING SEMESTER

(For the Academic Year **2024-2025**)

Name of the Faculty: Dr.T.Lakshmibai, HOD & Assistant Professor/EIE

Teaching, Learning and Evaluation related activities
Subjects assigned **ODD SEMESTER** 1. Power Electronics and Industrial Drives — Third Year Mechatronics 2. Aircraft Instrumentation — Fourth Year Mechatronics 3. Project work - Phase I — Fourth Year Mechatronics 4. Universal Human Values II — First Year Mechatronics **EVEN SEMESTER** Will be assigned. **Completed Work for the previous year 2023-2024** All the odd and even semester subject syllabus, internal evaluation and assessments are completed.
Co-curricular, Extension, Professional development related activities
● Planned to encourage students to participate in the paper presentation at various colleges and staff to participate in the conferences. ● Planned to conduct workshop and training in the core subject. ● Planned to encourage students to attend Competitive exams and to do internships in reputed institutions. ● Planned to publish journal papers and to attend orientation & refresher programs **Completed Work for the previous year 2023-2024** ● Motivated staff members to perform well in their academic and extension activities. ● Arranged Industrial Visit to HATSUN, Sankara Multi Specialty Hospital, Drone Company- Pondicherry. ● Conducted Engineers' day, NEXUS FUSION technical symposium, School teachers Enrichment program, Students hands on workshop, etc., ● Encouraged students to write NPTEL exams & one student got "Elite" in NPTEL exam.
Research, Publications and Academic contributions
● Published paper in journals. ● Published Articles in various International Conferences. **Completed Work for the previous year 2023-2024** ● Published a text book on 'IOT in automation' for Final year Mechatronics students ● Presented a paper in the International conference. ● Completed a FDP on "Collaborative Research Practices in Modern Era" conducted by Association of Indian Universities & AMET University (Academic and Administrative Development Centre), from 13.02.23 to 21.02.23 and obtained 'A' grade. ● Acted as a Reviewer in the international journals.

Signature of the Faculty **HOD/EIE**

For the Academic Year 2024-2025 - Work Plan

Name of the Faculty: Dr.Janani. R, Assistant Professor/EIE

Teaching, Learning and Evaluation related activities
Subjects assigned **ODD SEMESTER** 1. Control Systems- Third Year Mechatronics 2. Digital Electronics – Second Year CSE 3. Automatic Control Systems – Second Year CSE (Honors Course) **EVEN SEMESTER** Will be assigned by HOD **Completed Work for the previous year 2023-2024** All the odd and even semester subject syllabus, internal evaluation and assessments are completed
Co-curricular, Extension, Professional development related activities
● To organize two days FDP in Virtual Instrumentation, PLC and SCADA Based Automation ● Instruct students to join and undergo NPTEL Certificate exam as well as SWAYAM courses ● Registered for Domain Certification in NPTEL **Completed Work for the previous year 2023-2024** ● Participated in FDP, National and International Conference.
Research, Publications and Academic contributions
● Publish papers in Q2 Journals. ● Articles in International Conference. ● Applied SERB for funded project **Completed Work for the previous year 2023-2024** ● Presented Two research papers in International Conference ● Presented Two research papers in International Conference

Signature of the Faculty **HOD/EIE**

For the Academic Year 2024-2025- Work Plan

Name of the Faculty: Dr.K.SARASWATHI, AP-II/EIE

Teaching, Learning and Evaluation related activities
● Teaching of the courses assigned **ODD SEMESTER** 1. Analytical Instrumentation- III Yr Mechatronics 2. Robotics Automation and Process Control Lab – IV Yr Mechatronics 3. Principles of communications - III Yr IT **EVEN SEMESTER** Will be assigned by HOD ● Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals. **Completed Work for the year 2023-2024** ● All the odd & even semester subject syllabus, internal evaluation and assessments are completed ● Prepared PLC and Virtual Instrumentation Lab manual for IV Year Mechatronics students.
Co-curricular, Extension, Professional development related activities
● Planned to arrange an Industrial Visit to Food Processing Industry. ● Planned to attend Refresher courses and Conferences. **Completed Work for the year 2023-2024** ● Actively participated in Online FDP Programs.
Research, Publications and Academic contributions
● Planned to Present papers in IEEE Conferences. **Completed Work for the year 2023-2024** ● Published papers in SCOPUS and UGC journals. ● Applied two numbers of Patent

Signature of the Faculty **HOD/EIE**

For the Academic Year 2024-2025 - Work Plan

Name of the Faculty: Dr.T.Sundar, Assistant Professor/EIE

Teaching, Learning and Evaluation related activities
● Teaching of the courses assigned **ODD SEMESTER** 1. Robotics and Automation - IV Yr Mechatronics 2. Power Electronics and Industrial Drives – III Yr Mechatronics 3. Digital Principles and Its Application – I Yr BCA – A 4. Process Control Lab – IV Yr EEE (PT) **EVEN SEMESTER** Will be assigned by HOD ● Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals. ● Prepare new syllabus and Lab manual for Digital Electronics Lab and Robotics Automation & Process Control Lab. **Completed Work for the previous year 2023-2024** ● Prepared Digital Electronics Lab manual, Process Control Lab and Microprocessor and Microcontroller Lab for students. ● All the odd & even semester subject syllabus, internal evaluation and assessments are completed.
Co-curricular, Extension, Professional development related activities
● To arrange an Industrial Visit to Core Company. ● To arrange a Short term Program on Relevant to Instrumentation and Mechatronics. ● To arrange a Workshop, Seminar, FDP and Guest Lecture. ● To attend Refresher courses and Conferences **Completed Work for the previous year 2023-2024** ● Actively participated in Webinar, Workshop, Seminar, Lecture Series, FDP and Conference.
Research, Publications and Academic contributions
● Planned to Present papers in IEEE Conferences. **Completed Work for the previous year 2023-2024** ● Presented a paper in the International Conference. ● Successfully completed in ATAL FDP , Short Term Course and Webinar

Signature of the Faculty **HOD/EIE**

For the Academic Year 2024-2025 - Work Plan

Name of the Faculty: Dr.K.SUGAPRIYA, AP/EIE

Teaching, Learning and Evaluation related activities
● Teaching of the courses assigned ODD SEMESTER 1. Digital Electronics-II year CSE &IT 2. Electrical and Mechanical measurements- III Mechatronics 3. Embedded systems –IV year Mechatronics 4. Digital Electronics Lab-II year CSE &IT The Assessment (Internal test) for the above said subjects will be conducted at regular intervals. **EVEN SEMESTER** Will be assigned by HOD **Completed Work for the year 2023-2024** ● All the odd & even semester subject syllabus, internal evaluvation and assessments are completed
Co-curricular, Extension, Professional development related activities
● Planned to guide to do the mini project for III year students. **Completed Work for the year 2023-2024** ● Actively participated in FDP conducted through online. ● Guided the project for final year students.
Research, Publications and Academic contributions
● Paper published in Scopus journal. ● Planned to Present papers in IEEE Conferences.

Signature of the Faculty **HOD/EIE**

For the Academic Year 2024-2025- Work Plan

Name of the Faculty: Dr.N.C.A.Boovarahan, Assistant Professor/EIE

Teaching, Learning and Evaluation related activities

Subjects assigned

ODD SEMESTER

1.	Automotive Sensors	Third Year Mechatronics
2.	Digital Principles and its applications	First Year BCA
3.	Basic Electronics Engineering	First Year Mechanical PT
4.	Power Electronics & Industrial Drive Lab	Second Year Mechatronics

EVEN SEMESTER

Will be assigned by HOD

To prepare text book for Battery Technology

Completed Work for the previous year 2023-2024

All the odd and even semester subject syllabus, internal evaluation and assessments are completed

Co-curricular, Extension, Professional development related activities

- Motivate the students to do mini projects.
- Encourage students to do publish a journal in the reputed journal.
- Encourage students to join and undergo training for Competitive exams.
- To publish more papers in the Scopus journals.

Completed Work for the previous year 2023-2024

- Published text book 'IOT in automation' subject for Final year mechatronics students

Research, Publications and Academic contributions

- Published six papers in Scopus journals.
- Published Articles in various International Conferences.

Completed Work for the previous year 2023-2024

- Presented papers in the IEEE conferences.
- Completed aFaculty Development program on "Collaborative Research Practices in Modern Era" conducted by Association of Indian Universities & AMET University (Academic and Administrative Development Centre), from 13.02.23 to 21.02.23 and obtained A grade.

Signature of the Faculty **HOD/EIE**

25. DETAILS OF ADDITIONAL RESPONSIBILITIES OF THE STAFF

Additional Responsibility (2023-2024)

S.No	Description Work	Faculty In charge	
1.	Educational Tour, Industrial Visit, Internship Training, Workshop, Guest Lectures	All Faculties	
2.	Placements	Dr.T.Lakshmibai	
3.	IQAC & Research Coordinator	Dr.Janani R	
4.	Time Table In charge , Internal Test and University exam related works	Dr.K.Sugapriya	
5.	Department Activity	Dr.NCA.Boovarahan	
6.	Result Analysis & Feedback	Dr.K.Saraswathi Mr.K.Vinayagamoorthy	
7.	Department Library	Dr.NCA.Boovarahan Mr.K.Vinayagamoorthy	
8.	Student Attendance & Staff Attendance	Class Incharge & Mr.K.Vinayagamoorthy	
9.	Web Updating	Dr.T.Sundar	
10.	Department Profile work	Dr.T.Sundar & Mrs.V.Komala	
11.	Class Incharge	First Year	Dr.NCA.Boovarahan
		Second Year	Dr.K.Saraswathi
		Third Year	Dr.T.Sundar
		Four Year	Dr.T.Lakshmibai
12.	Department Maintenance & Department Related outside / External Work	Mr.G.Subramaniyan	

13	Department Work (File Maintenance, Stationary, Letters) & Office Work	Mrs.V.Komala

- **Other works if any will be allotted to the faculty depending upon the situation.**

COORDINATOR **HOD/EIE**

26. DETAILS OF CLASS COMMITTEE MEETINGS HELD SO FAR

MINUTES OF CLASS COMMITTEE MEETING OF IV YEAR MECHATRONICS ENGINEERING CONDUCTED ON 16.10.2023 at 12.00 Noon.

Students Present:
IV Year Mechatronics

1. Raghul .V
2. Kudaravalli Venkata Sai Lakshman

Staff Present : 1. Dr. JANANI R
2. Dr.K.SARASWATHI
3. Dr.D.VIJAYAN
4. Dr.R. BALAKUMAR

HOD : Dr.T.LAKSHMIBAI

The following points were discussed:

1. The important dates in the Academic schedule were informed to the students (Internal Test etc)
2. The students are advised to have good attendance percentage and they are asked to avoid absent for first hour in both morning and afternoon sessions.
3. It is informed to the students to wear ID card compulsorily during working hours.
4. The students are comfortable with the current semester Theory and Practical subjects.
5. Students are advised to clear all their arrear subjects by this semester.
6. The importance of the final year Project was explained to them and the students are motivated to do innovative projects.
7. All the students are informed to do one In-plant training by this semester and at the end they have to give a small presentation about their training.
8. Students are advised to arrange and actively participate in the various activities like Industrial Visit, Education tour, Workshop and Guest Lecture.
9. The students are advised to prepare for the GATE Exam and other competitive exams.
10. It is informed to the students about semester exam pattern and also instructed not to have any dues.

Class in Charge **HOD/EIE**

Dr.T. LAKSHMIBAI

MINUTES OF CLASS COMMITTEE MEETING OF IV YEAR MECHATRONICS ENGINEERING CONDUCTED ON 26.02.2024 at 12.15pm.

Students Present:
IV Year Mechatronics

1.Raghul .V

Staff Present : 1. Dr. T.Sundar

2. Dr.S.D.Sathishkumar

HOD : Dr.T.Lakshmibai

The following points were discussed:

1.The important dates in the Academic schedule such as Internal Test, Semester theory and practical exams etc were communicated to the students.

2.Students are advised to maintain good attendance percentage.

3.The importance of the final year Project was explained and students were motivated to undertake innovative projects.

4.Students are permitted to do project concurrently with internship in industries.

5.Students are advised to arrange and actively participate in the various activities such as Industrial Visit, Educational tour, Workshop and Guest Lectures.

6.Students are advised to prepare for the GATE Exam and other competitive exams.

Class in Charge **HOD/EIE**

MINUTES OF CLASS COMMITTEE MEETING OF IV YEAR MECHATRONICS ENGINEERING CONDUCTED ON 06.05.2024 at 09.30AM.

Students Present:
IV Year Mechatronics

1.Raghul .V
2.Kudaravalli Venkata Sai Lakshman

Staff Present : 1. Dr. T.Sundar
2. Dr.S.D.Sathishkumar

HOD : Dr.T.Lakshmibai

The following points were discussed:

1.The important dates in the Academic schedule such as Internal Test, Semester theory and practical exams etc were communicated to the students.

2.Students are advised to maintain good attendance percentage.

3.The importance of the final year Project was explained and students were motivated to undertake innovative projects.

4.Students are permitted to do project concurrently with internship in industries.

5.Students are advised to arrange and actively participate in the various activities such as Industrial Visit, Educational tour, Workshop and Guest Lectures.

6.Students are advised to prepare for the GATE Exam and other competitive exams.

Class in Charge **HOD/EIE**

MINUTES OF CLASS COMMITTEE MEETING OF III YEAR MECHATRONICS CONDUCTED ON 16.10.2023 at 12.30 PM.

Students Present:
III Year Mechatronics

1 P ANANTHA PADMANABBAN
2 CHITTALURI SAI PHANICHANDRA
3 DHULIPALA DATTA SAI
4 SRI SAI SHRAVANI VOLETI

Staff Present : 1. Dr. T. SUNDAR (Class-in-charge)
2. Dr.K.SARASWATHI
3. Dr.K.SUGAPRIYA
4. Dr.S.D.SATHISHKUMAR
5. Dr.S.VIJAYABHASKAR

HOD : Dr.T.LAKSHMIBAI

The following points were discussed:

1. Students are advised to concentrate on mini-projects and carrier guidance programme.

2. The students are advised to maintain good attendance percentage.

3. The students are advised to plan for Internship and Implant Training.

4. The importance of various training program (SWAYAM courses) offered through online were informed.

5. The students are advised to prepare for the GATE Exam and other competitive exams.

6. The students are satisfied with the syllabus completion of current semester Theory and Lab subjects.

7. It is informed to the students about semester exam pattern and also instructed not to have any dues.

Class in Charge Dr. T. SUNDAR **HOD/EIE**

MINUTES OF CLASS COMMITTEE MEETING OF III YEAR MECHATRONICS CONDUCTED ON 28.02.2024 at 12.15 PM.

Students Present:

III Year Mechatronics

1. P ANANTHA PADMANABBAN
2. CHITTALURI SAI PHANICHANDRA
3. DHULIPALA DATTA SAI
4. SRI SAI SHRAVANI VOLETI

Staff Present : 1. Dr. T. SUNDAR (Class-in-charge)
2. Dr.JANANI.R
2. Dr.K.SARASWATHI
3. Dr.K.SUGAPRIYA
4. Dr.N.C.A BOOVARAHAN
5. Dr. D. VIJAYAN

HOD : Dr.T.LAKSHMIBAI

The following points were discussed:

1. Students are advised to concentrate on mini-projects and career guidance programs.
2. The students are advised to maintain a good attendance percentage.
3. It is informed to the students to wear ID cards compulsorily during working hours.
4. The students are advised to plan for internships and implant training.
5. The importance of various training programs (SWAYAM - NPTEL courses) offered online was emphasized.
6. Students are advised to clear all their arrear subjects by this semester.
7. The students are advised to prepare for the GATE Exam and other competitive exams.
8. The students are satisfied with the syllabus completion of the current semester's theory and lab subjects.
9. Students are advised to arrange and actively participate in various activities like industrial visits, educational tours, workshops, conferences, seminars, symposiums, and guest lectures.
10. It is informed to the students about the semester exam pattern and also instructed not to have any dues.
11. Students are appreciated for applying for the IITM-Swimmer fellowship program.

Class in Charge **HOD/EIE**

Dr. T. SUNDAR

MINUTES OF CLASS COMMITTEE MEETING OF III YEAR MECHATRONICS CONDUCTED ON 06.05.2024 at 10.30 AM.

Students Present:

III Year Mechatronics

1. P ANANTHA PADMANABBAN
2. CHITTALURI SAI PHANICHANDRA
3. DHULIPALA DATTA SAI
4. SRI SAI SHRAVANI VOLETI

Staff Present : 1. Dr. T. SUNDAR (Class-in-charge)
2. Dr.JANANI.R
3. Dr.K.SARASWATHI
4. Dr.N.C.A BOOVARAHAN
5. Dr. D. VIJAYAN

HOD : Dr.T.LAKSHMIBAI

The following points were discussed:

1. Students are advised to concentrate on mini-projects and career guidance programs.
2. The students are advised to maintain a good attendance percentage.
3. It is informed to the students to wear ID cards compulsorily during working hours.
4. The students are advised to plan for internships and implant training.
5. The importance of various training programs (SWAYAM - NPTEL courses) offered online was emphasized.
6. Students are advised to clear all their arrear subjects by this semester.
7. The students are advised to prepare for the GATE Exam and other competitive exams.
8. The students are satisfied with the syllabus completion of the current semester's theory and lab subjects.
9. Students are advised to arrange and actively participate in various activities like industrial visits, educational tours, workshops, conferences, seminars, symposiums, and guest lectures.
10. It is informed to the students about the semester exam pattern and also instructed not to have any dues.
11. Students are appreciated for applying for the IITM-Swimmer fellowship program.

Class in Charge **HOD/EIE**

Dr. T. SUNDAR

MINUTES OF CLASS COMMITTEE MEETING OF II YEAR MECHATRONICS CONDUCTED AT EIE DEPT ON 20.10.2023 at 10.00 AM.

Students Present:

II Year Mechatronics

1. N.Tirumala Hardik Srivatsa
2. Sudhan.G
3. Koushik Bharadwaj Vishnubhotla

Staff Present : 1. Dr.K.Saraswathi (Class-in-charge)
2. Dr.K.Sugapriya
3. Dr. A. Nandhakumar
4. Dr. S. D. Sathish Kumar
5. Dr.E.Geetha
6. Mr.G.Subramaniyan

HOD : Dr.T. Lakshmibai

The following points were discussed:

1. Academic performance and Attendance details of individual student were discussed, and all their performances were satisfying.
2. The importance of attendance was explained to the students and also instructed to follow the attendance percentage above 80 %.
3. Students are advised to concentrate on the current semester subjects and understand the basics which are essential for competitive exams in the future.
4. The important dates in the Academic schedule were informed to the student, which includes Internal Test-II, Practical exam, Theory exam, etc.
5. It is informed to the students to wear ID cards compulsorily during working hours.
6. Students are advised to arrange and actively participate in various activities like Industrial Visits, In-plant training, Internships, Education tours, Workshops and Guest Lectures.
7. Students are advised to register for online NPTEL & MOOCs course.

Class in Charge (K.SARASWATHI) **HOD/EIE**

MINUTES OF CLASS COMMITTEE MEETING OF II YEAR MECHATRONICS CONDUCTED AT HOD CABIN, EIE DEPT ON 13.03.2024 at 02.30 PM.

II Year Mechatronics Students Present:

1. N.Tirumala Hardik Srivatsa
2. Sudhan.G
3. Koushik Bharadwaj Vishnubhotla

Staff Present : 1. Dr.K.Saraswathi (Class-in-charge)
2. Dr.K.Sugapriya
3. Dr. R. Vinayagamoorthi
4. Dr .R.Ellapan
5. Dr.S.Arumugam
6. Dr. N. C. A. Boovarahan
7. Dr.G. Venkata Koteeshwara Rao
8. Dr. T. Sundar

HOD : Dr.T. Lakshmibai

The following points were discussed:

1. Academic performance and Attendance details of individual student were discussed, and all three students need to improve their Academic performance and attendance.
2. The subjects Strength of Materials & Fluid Mechanics and Thermodynamics are problematic papers for practicing more questions; the staff requested an extra hour per week, and it has been allotted.
3. Students are advised to avoid taking leave as it may affect their continuity in subjects.
4. Students are advised to complete day to day homework without fail.
5. The subject staff of Strength of Materials, Fluid Mechanics and Thermodynamics was asked to share important formulas and definitions with students and the same has been shared by the concerned staff.
6. The importance of attendance was explained to the students and they were instructed to maintain an attendance percentage above 80 %.
7. Important dates in the Academic schedule, including Internal Test-II, Practical exams, Theory exams, etc. were informed to the students
8. Students are advised to register for online NPTEL & MOOCs courses.

Class in Charge (K.SARASWATHI) **HOD/EIE**

MINUTES OF CLASS COMMITTEE MEETING OF II YEAR MECHATRONICS CONDUCTED AT HOD CABIN, EIE DEPT ON 10.05.2024 at 02.30 PM.

II Year Mechatronics Students Present:

1. N.Tirumala Hardik Srivatsa
2. Sudhan.G
3. Koushik Bharadwaj Vishnubhotla

Staff Present : 1. Dr.K.Saraswathi (Class-in-charge)
2. Dr.K.Sugapriya
3. Dr. R. Vinayagamoorthi
4. Dr .R.Ellapan
5. Dr.S.Arumugam
6. Dr. N. C. A. Boovarahan
7. Dr.G. Venkata Koteeshwara Rao
8. Dr. T. Sundar

HOD : Dr.T. Lakshmibai

The following points were discussed:

1. Academic performance and Attendance details of individual student were discussed, and all three students need to improve their Academic performance and attendance.
2. In all theory Subjects four units are completed and fifth unit is running so no extra hours are needed.
3. The importance of attendance was explained to the students and they were instructed to maintain an attendance percentage above 80 %.
4. Important dates in the Academic schedule, including Model Practical exam, Practical exams, and theory exams, etc. were informed to the students.
5. Students are advised to register for online NPTEL & MOOCs courses.
6. Students are advised to undergo internship training in their summer holidays.

Class in Charge (K.SARASWATHI) **HOD/EIE**

27. MAINTENANCE OF STAFF RECORDS

Staff Leave Particulars

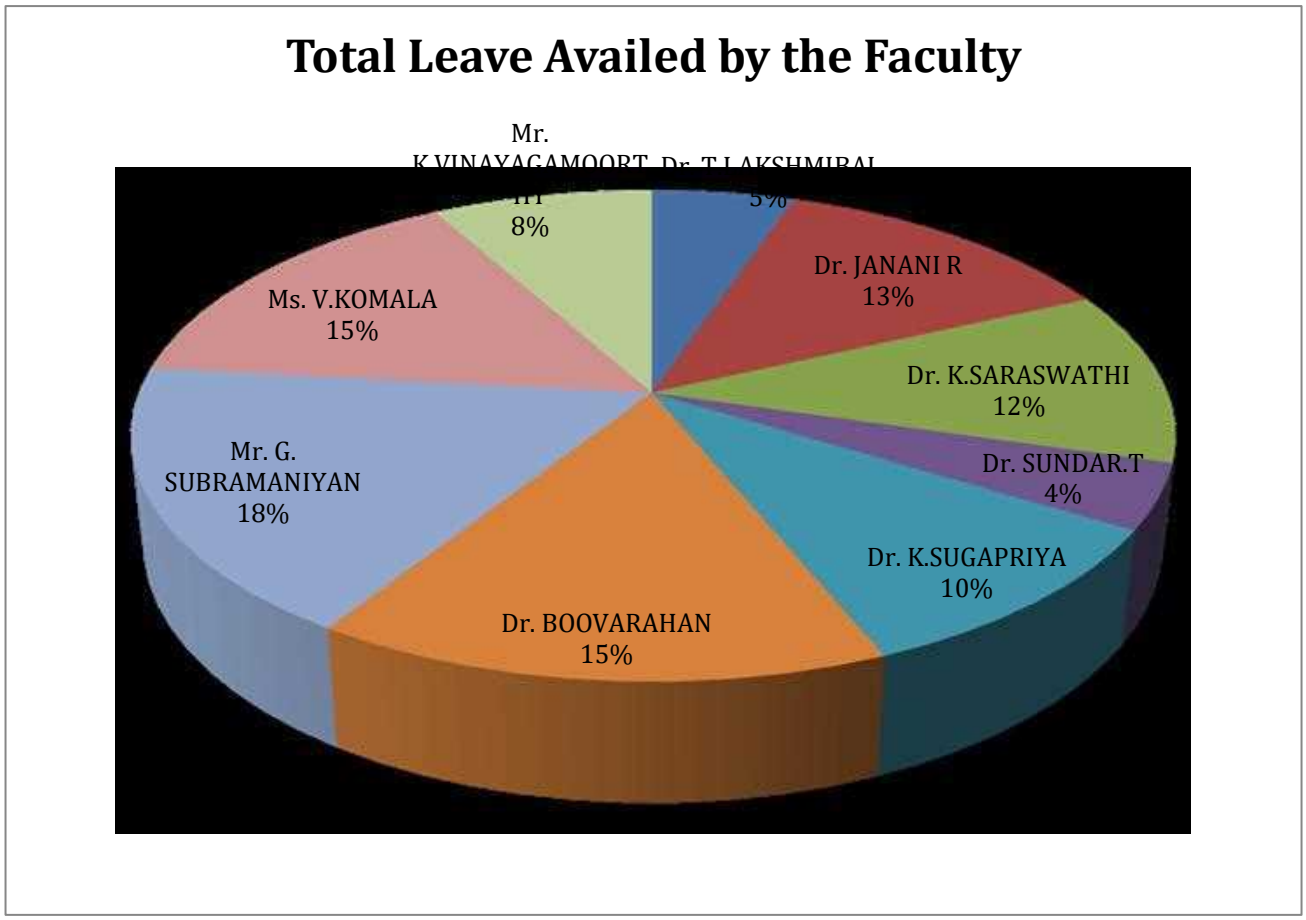
From 01/07/2023 to 30/06/2024

S. N	NAME	DESIGNATION	CL	EL	ML	RH	CH	OD	DL	PA	MA	VA	LOP	TOT
1	Dr. T.LAKSHMIBAI	Assistant Professor & HOD	7.5	-	3.0	1	-	1.0	1.0	-	-	15		28
2	Dr. JANANI R	Assistant Professor	16.5	8.0	2.5	-	1	1.0	1.0	-	-	15		45
3	Dr. K.SARASWATHI	Assistant Professor	14.0	8.0	-	2	1	1.0	-	-	-	15		41
4	Dr. SUNDAR.T	Assistant Professor	9.5	-	-	-	-	4.0	-	-	-	15		28
5	Dr. K.SUGAPRIYA	Assistant Professor	8.5	12.0	-	1	-	-	-	-	-	15		36
6	Dr. N.C.A.BOOVARAHAN	Assistant Professor	13.5	19.0	-	-	-	-	-	-	-	15		47
7	Mr. G. SUBRAMANIYAN	Sr.Lab Instructor	13.0	22.0	-	2	-	1.0	-	-	-	-		38
8	Ms. V.KOMALA	Lab Instructor	12.5	15.0	4.0	1	-	-	-	-	-	-		32
9	Mr. K.VINAYAGAMOORTHY	Lab Instructor	8.5	8.0	-	1	-	1.0	-	-	-	-		18

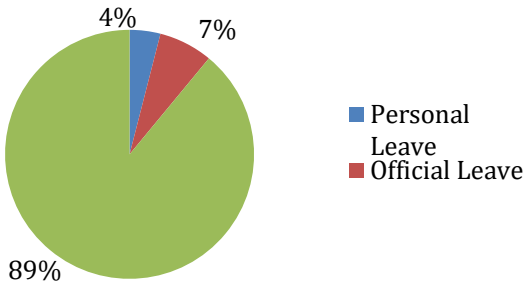
CL – Casual Leave, RH – Restricted Holidays, DL – Duty Leave, ML – Medical Leave, EL – Earned Leave, CH – Compensatory Leave, OD – On other Duty, LOP – Loss of Pay, PA – Paternity Leave, MAL – Maternity Leave, VA – Vacation, SL – Study Leave, WH – Weekly Off, TOT - Total.

Signature of HOD

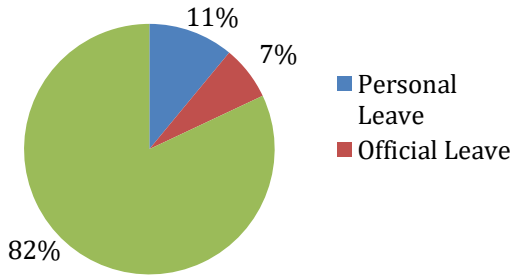
TOTAL LEAVE AVAILED BY THE STAFF



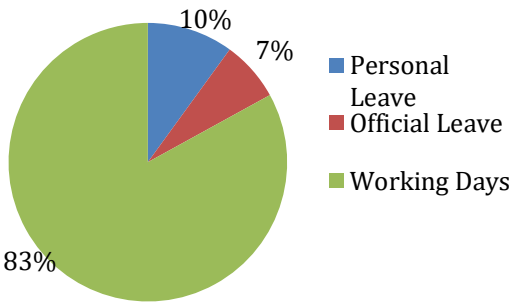
Dr. T. Lakshmibai



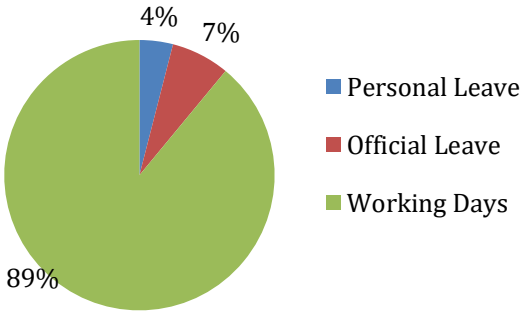
Dr. R. Janani



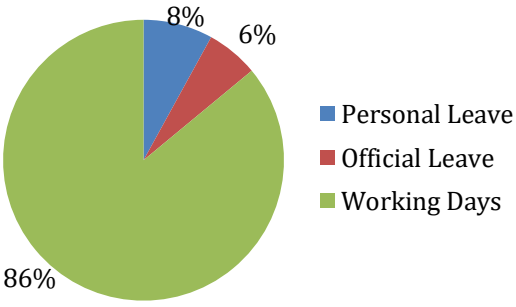
Dr. K. Saraswathi



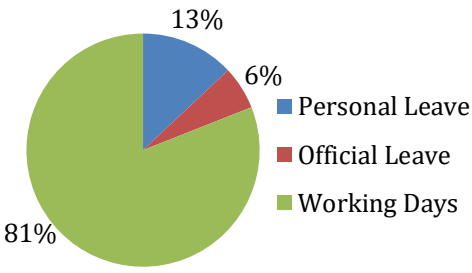
Dr. T. Sundar

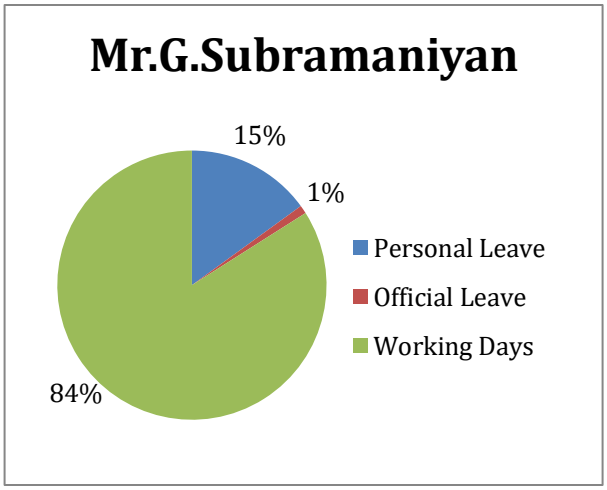


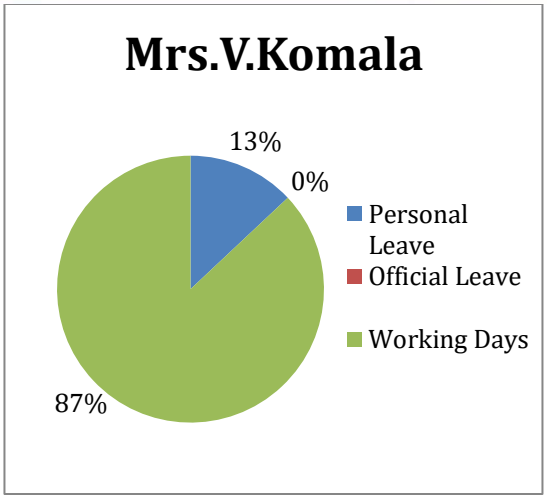
Dr. K.Sugapriya

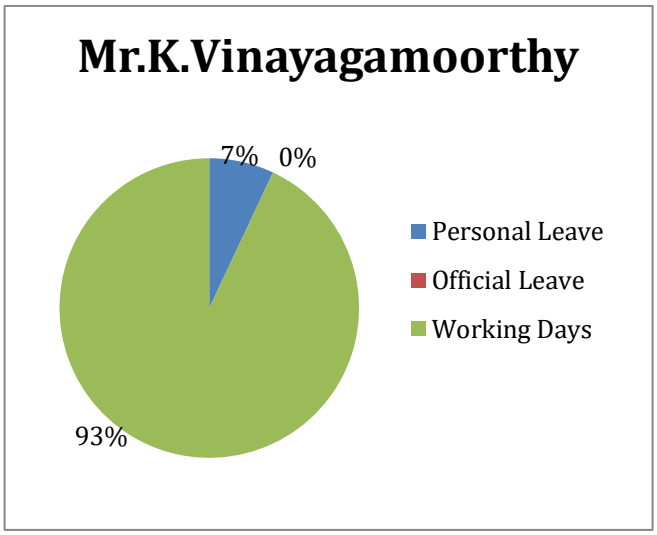


Dr.N.C.A.Boovarahan




Mr.G.Subramaniyan
15%
1%
84%
Personal Leave
Official Leave
Working Days


Mrs.V.Komala
13%
0%
87%
Personal Leave
Official Leave
Working Days


Mr.K.Vinayagamoorthy
7%
0%
93%
Personal Leave
Official Leave
Working Days

28. WORK ALLOTMENT DETAILS

Academic Year – 2023 -2024

Teaching workload of the Faculty for the ODD Semester 2023-2024

S. No	Name of the Faculty Member	Department / Programme/ Year/semester	Name of the Subject	No. of Hours per week	Total Hours
1	Dr. T. Lakshmibai	Mechatronics/BE/III/V	Power Electronics and Industrial Drives	5	22
		Mechatronics/BE/IV/VII	Open Elective III Aircraft Instrumentation	6	
		IT/B.TECH/III/V	Principles of Communication	5	
		Mechatronics/BE/III/V	Power Electronics and Industrial Drives Lab	3	
		Mechatronics/BE/IV/VII	Project Work Phase- I	3	
2	Dr. K. Saraswathi	Mechatronics/BE/IV/VII	Robotics & Automation	6	18
		Mechatronics/BE/III/V	Analytical Instrumentation	5	
		Mechanical/BE/II/III	Automatic control system	4	
		Mechatronics/BE/IV/VII	Robotics Automation and Process control Lab	3	
3	Dr. R. Janani	Physics/Msc/II/III	Digital Electronics and Microprocessor	5	16
		Mechatronics/BE/IV/VII	Professional Elective-III Embedded System	6	
		CSA/Bsc/I/I	Digital Electronics and its applications	5	

4	Dr. T. Sundar	CSE/BE/II/III	Digital Electronics	5	20
		Mechatronics/BE/III/V	Open Elective – I Electrical and Mechanical Measurements	4	
		CSA/BCA-A/I/I	Digital Electronics and its applications	5	
		CSE/BE/II/III	Digital Electronics Lab	3	
		EEE/BE-PT/IV/VII	Process Control Lab (PART TIME)	3	
5	Dr. K. Sugapriya	Mechatronics/BE/II/III	Sensors & Actuators	5	18
		Mechanical/BE/II/III	Sensors & Transducer	5	
		Mechatronics/BE/III/V	Control System	5	
		CSE/BE/II/III	Digital Electronics Lab	3	
6	Dr. N. C. A. Boovarahan	Mechatronics/BE/II/III	Electronic Devices and Circuits	5	16
		CSA/BCA-B/I/I	Digital Electronics and its applications	5	
		Mechanical/BE-PT/I/I	Basic Electrical and Electronics Engineering (PART TIME)	3	
		Mechatronics/BE/II/III	Electronic Devices and Circuits Lab	3	
7	Mr.G.Subramaniyan	Mechatronics/BE/II/III	Basics of Sensors and Actuators	3	

Department-wise workload of the Faculty for the ODD Semester 2023-2024

Sl.No.	Name of the Faculty	Workload in the Department (Hrs. Per week)	Workload in other Departments (Hrs. Per week)	Total Workload (Hrs. Per week)
1	Dr. K. Saraswathi	14	4	18
2	Dr. R. Janani	6	10	16
3	Dr. T. Sundar	4	16	20
4	Dr. T. Lakshmibai	17	5	22
5	Dr. K. Sugapriya	10	8	18
6	Dr. N. C. A. Boovarahan	8	8	16
	Total	**59**	**51**	**110**

Teaching workload of the Faculty for the EVEN Semester 2023-2024

S. No	Name of the Faculty Member	Department / Programme/ Year/semester	Name of the Subject	No. of Hours per week	Total Hours
1	Dr. T. Lakshmibai	Mechatronics/BE/IV/VIII	Professional Elective VII -IOT in Automation	6	12
		Mechatronics/BE/IV/VII	Project Work Phase- II	6	
2	Dr. R. Janani	CSE/II/IV	Microprocessors and Microcontrollers	5	16
		Mechatronics/BE/III/VI	Principles of Management and Professional Ethics	5	
		CSE/II/IV	Microprocessors and Microcontrollers Lab	6	
3	Dr. K. Saraswathi	Mechatronics/BE/II/IV	Industrial Instrumentation	4	16
		Mechatronics/BE/III/VI	PLC & Data Acquisition System	5	
		Mechanical/BE/II/IV	Program Logic Controllers	4	
		Mechatronics/BE/III/VI	PLC And Virtual Instrumentation Lab	3	
4	Dr. T. Sundar	Mechatronics/BE/III/VI	Open Elective II- Bio Medical Instrumentation	5	18
		Mechatronics/BE/II/IV	Medical Sensors-HONS	4	
		Mechatronics/BE/IV/VIII	Open Elective IV Nano Technology	6	
		EEE/BE/IV/VIII	Process Control Lab	3	

5	Dr. K. Sugapriya	Mechanical/BE/II/IV	Robotics Technology Characterization & Techniques	4	16
		Mechatronics/BE/III/VI	Professional Elective II - Principles of Communication	5	
		Mechatronics/BE/II/IV	Digital Electronics	4	
		Mechatronics/BE/II/III	Linear Integrated Circuits &Digital Electronics Lab	3	
6	Dr. N. C. A. Boovarahan	Mechatronics/BE/II/IV	Linear Integrated Circuits	4	17
		Mechatronics/BE/III/VI	Microprocessors and Microcontrollers	5	
		Mechatronics/BE/III/VI	Microprocessors and Microcontrollers Lab	3	
		IT/III/VI	Embedded systems	5	

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Department-wise workload of the Faculty for the EVEN Semester 2023-2024

Sl.No.	Name of the Faculty	Workload in the Department (Hrs. Per week)	Workload in other Departments (Hrs. Per week)	Total Workload (Hrs. Per week)
1	Dr. T. Lakshmibai	12	-	12
2	Dr. R. Janani	5	11	16
3	Dr. K. Saraswathi	12	4	16
4	Dr. T. Sundar	15	3	18
5	Dr. K. Sugapriya	12	4	16
6	Dr. N. C. A. Boovarahan	12	5	17
	Total	**68**	**27**	**95**

Academic Year – 2023 -2024

Sl.No	Year / Dept	Class in Charge
1.	I Year Mechatronics	NIL
2.	II Year Mechatronics	Dr.K.Saraswathi
3	III Year Mechatronics	Dr.T.Sundar
5	IV Year Mechatronics	Dr.T.Lakshmibai

HOD/EIE

Dr.T.LAKSHMIBAI

29. MENTOR LIST

From,

Dr.T.LAKSHMIBAI,

The Head of the Department,

Department of Electronics and Instrumentation Engineering,

Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya,

Enathur, Kanchipuram – 631561.

Tamilnadu, India.

This is to certify that the number of mentors and number of students assigned to each mentor in the Academic year 2023-24 is as follows

Programme Code & Programme Name	B.E – Mechatronics
Number of students assigned to each mentor	2
Number of mentors	6

The complete list of mentors and students assigned to each mentor for the academic year 2023-2024 is enclosed.

MENTOR LIST – (2023–2024)

II Year-Mechatronics (2022-2026) BATCH

S.NO	REG.NO	NAME	STAFFNAME
1	11229H001	N.TirumalaHardik Srivatsa	Dr.Janani.R
2	11229H002	Sudhan.G	Dr.K.Saraswathi
3	11229H003	KoushikBharadwaj Vishnubhotla	

III Year- Mechatronics (2021-2025) BATCH

S.NO	REG.NO	NAME	STAFFNAME
1	11219H001	PAnanthaPadmanabban	Dr.T.Sundar
2	11219H002	ChittaluriSai Phanichandra	
3	11219H003	DhullipallaDattaSai	Dr.N.C.A.Boovarahan
4	11219H004	SriSaiShravaniVoleti	Dr.K.Sugapriya

IV Year-Mechatronics (2020-2024) BATCH

S.No	Reg.No	Name	STAFFNAME
1	11209H001	Raghul.V	Dr.T.Lakshmibai
2	11209H002	KudaravalliVenkataSaiLakshman	

HOD/EIE

Dr.T.Lakshmibai

30. DISPATCH REGISTERS AND OTHER ADMINISTRATIVE RECORDS

File no.	File Name	Left Rack no	Middle Rack no	Right Rack no
1.	Internal Marks	2	-	-
2.	Exam Time Table	2	-	-
3.	COE Circular /letter	2	-	-
4.	Nominal Roll	2	-	-
5.	Results (2009-13)	2	-	-
6.	Dean Circular	-	-	2
7.	Registrar Circular	-	-	2
8.	Dean Letter	-	-	2
9.	Technical Recommendation	1	-	-
10.	Indent	1	-	-
11.	Bills/Bills settlement	1	-	-
12.	Supplier List	1	-	-
13.	CAO Circular/ Letter	1	-	-
14.	Library Circular/book list	-	2	-
15.	BOS/Academic Council	-	2	-
16.	Class Time Table	-	2	-
17.	Conference/Seminar/Workshop	-	1	-
18.	Other Dept Circular	-	-	2
19.	Staff Personal	-	1	-
20.	Internal Circular	-	-	2
21.	Students Mentor	-	2	-
22.	Model Questions	4	-	-
23.	Budget	1	-	-
24.	UGC	-	2	-
25.	Syllabus-EIE	-	2	-
26.	Notice Board Circular	4	-	-
27.	Purchase	1	-	-
28.	BOM (HOD Room)	-	-	-
29.	Equipment Servicing Letter	-	-	1
30.	Department Activities	-	1	-
31.	Industry Visit Letter	-	1	-
32.	Quotations	-	-	1
33.	Lab Manuals/others	-	4	-
34.	Staff Attendance/CL/EL/ML/OD Forms	-	1	-
35.	Invitations/Poster	4	-	-
36.	All Stock Register	-	-	4
37.	Profile book & feedback book	3		
38.	Fees Challon Details		2	

39.	Student Attendance Details		2	
40.	Finance Officer Letter/Circular			2
41.	AICTE		2	
42.	Bonafide Letter		2	
43.	Students profile (2009-2013)		3	
44.	Dept. Library books Details(Library shelf)			
45.	Minutes of Meeting			2
46.	Guest Lecture Letters/Address			2
47.	Nodal officer Circular/letter/ Research&Publication/ SJCAR/ SJAC			2
48.	Results (2010-14 Batch)	2		
49.	NAAC		2	
50.	Guest Lecture Feedback		3	
51.	Industrial Visit Feedback		3	
52.	Bills, Purchase order/demo bill for lab			1
53.	Internal Test Questions		4	
54.	Physical stock	4		
55.	Resume-Teaching &Non-Teaching		1	
56.	Instrumentation Society		1	
57.	Students Profile(2011-15 batch)		3	
58.	Results (2011-2015 batch)	2		
59.	Parents' Permission letter for Educational Tour		1	
60.	AAVISHKAR	4		
61.	Anti-Ragging			2
62.	Elective Selection		3	
63.	Results(2012-2016)	2		
64.	Placement Circular/Letter			2
65.	Students Profile(2012-16 batch)		3	
66.	Task Force		3	
67.	Industry-Academia Meet	1		
68.	Consultancy			5
69.	List of Publications-Staff			5
70.	Circuit branch syllabus		2	
71.	Dept Guest Lecture /Seminar /Symposium/IV/FDP/All Functions. With Reference to Circular no:039/2013-14			5
72.	Staff Profile		1	
73.	Ph.D Details			3
74.	Curriculum Feedback		3	
75.	Student Feedback Information		2	
76.	B.E Mechatronics Details		2	
77.	Students Profile (2013-2017 batch)		3	

78.	Results (2013-2017)	2		
79.	Parents-Teachers Meet		2	
80.	Students Performs Report		2	
81.	Annual Report		2	
82.	Results-EIE(2014-2018 BATCH)	2		
83.	Results-MCT(2014-2018 BATCH)	2		
84.	National Conference EIE-NCICA		1	
85.	Research Scholar files			3
86.	Project Details			3
87.	Syllabus-ME-Electronic and Control		5	
88.	IQAC		5	
89.	Research Colloquium			3
90.	Staff official details			3
91.	Students profile/EIE-(2014-2018 batch)		3	
92.	Students profile/Mechatronics-(2014-2018 batch)		3	
93.	Admission Details			5
94.	Results-EIE(2015-2019 BATCH)	2		
95.	Results-MCT(2015-2019 BATCH)	2		
96.	Alumini Meet		3	
97.	Internship/In plant/Other Training Program			2
98.	Students profile/EIE-(2015-2019 batch)		3	
99.	Students profile/Mechatronics-(2015-2019 batch)		3	
100.	Certificate Course		2	
101.	International Conference		1	
102.	Results MCT (2016-2020 Batch)	2		
103.	Results EIE (2016-2020 Batch)	2		
104.	Students profile/EIE-(2016-2020 batch)		3	
105.	Students profile/Mechatronics-(2016-2020 batch)		3	
106.	Students profile/ EIE & Mechatronics-(2017-2021 batch)		3	
107.	MOU			2
108.	Students Feedback		3	
109.	Work shop /Robotics		1	
110.	Results- EIE (2017-2021 batch)	2		
111.	Results-Mechatronics (2017-2021 batch)	2		
112.	IEEE Project Expo		1	
113.	Students profile/ EIE & Mechatronics-(2017-2021 batch)		3	

114.	Results- EIE (2018-2022 batch)	2		
115.	Results-Mechatronics (2018-2022 batch)	2		
116.	Results-Mechatronics (2022-2026 batch)	2	-	-
117.	Hihger Education Details	-	3	-
118.	Stakeholder Feedback/Training Programmes Feedback/Alumni Feedback/Curriculum Feedback	-	3	-
119	OD Letters (Students)	-	3	-
120	All Circular	-	-	2
121	Internal Test Details	2	-	-
122	Class committee Meeting	-	-	2
123	Grade Sheet Issued students List	2	-	-

31. APPENDIX

APPENDIX - 1

SRI CHANDRASEKHARENDRA SARASWATHI

VISWA MAHAVIDYALAYA

SCSVMV

(Deemed to be University U/S 3 of UGC Act 1956)

Accredited with "A" Grade by NAAC

Enathur, Kanchipuram - 631561

REGULATIONS FOR

B.E (Electronics & Instrumentation Engineering)

FULL TIME PROGRAMME

CHOICE BASED CREDIT SYSTEM

(For Candidates admitted from the year 2014 onwards)

DEPARTMENT OF

ELECTRONICS & INSTRUMENTATION ENGINEERING

CHOICE BASED CREDIT SYSTEM FOR BE (EIE) FULL-TIME PROGRAMME

CREDITS

Theory courses: Courses with 4/3 credits will be assigned 3 Lectures and 2/1 Tutorial hours per week.

Practical courses: Courses with 2 credits will be assigned 3 hours of lab/practical work per week

Each semester curriculum shall normally have a blend of theory and practical courses. In the first year the total number of credits will be 25 for each Semester. For semester III to VII, the average credits per semester will be 25 and for semester VIII, the credits will be 18. For the award of the degree, a student has to earn a minimum of 196 credits.

DURATION OF THE PROGRAMME

A student is normally expected to complete B.E (EIE) programme in four years and in any case, not more than seven years from the time of admission.

REGISTRATION FOR COURSES

A newly admitted student will automatically be registered for all the courses prescribed for the first year, without any option.

All other students shall submit a completed registration form indicating the list of courses intended to be credited during the next semester. This registration will be done a week before the last working day of the current semester. Late registration, with the approval of the Dean on the recommendation of the Head of the Department, along with a late fee will be done, up to the last working day.

Registration for the project work shall be done only for the final semester.

ASSESSMENT

The break-up of Assessment and Examination marks for Theory subjects are as follows.

Continuous Internal Assessment comprising of tests, assignments, seminars, group discussion and attendance	:	40 Marks
End semester Examination	:	60 Marks

The break-up of the Assessment and Examination marks for Practical are as follows.

Continuous Internal Assessment comprising of tests, Observation, Record work and attendance	:	40 Marks
End semester Examination	:	60 Marks

The project work will be assessed for 40 marks by a Committee consisting of the Guide and the Head of the Department. The Head of the

Department said be the Chairman. 60 marks are allotted for the project viva voce examination at the end of the semester.

WITHDRAWAL FROM A COURSE

A student can withdraw from the course at any time before a date fixed by the Head of the Department prior to the second assessment, with the approval of the Dean on the recommendation of the Head of the Department.

TEMPORARY BREAK OF STUDY

A student can take a one-time temporary break of study covering the current year/semester and/or the next semester with the approval of the Dean on the recommendation of the Head of the Department, not later than seven days after the completion of the mid-semester test. However, the student must complete the entire program within the maximum period of seven years.

SUBSTITUTE ASSESMENT

A student, who has missed, for genuine reasons accepted by the Head of the Department, one or more of the assessments of a course other than the end semester examination, may take a substitute assessment for any one of the missed assessments. The substitute assessment must be completed before the comment of the end semester before examination.

A student who wishes to have a substitute assessment for a missed assessment must apply to the Head of the Department within a week from the date of the missed assessment.

ATTENDANCE REQUIREMENTS

To be eligible to appear for the examination in a particular course, a student must put in a minimum of 80% of attendance in the course. However, if the attendance is 70% or above but less than 80% in any course, the authorities can permit the student to appear for the examination in the course on payment of the prescribed condonation fee.

A student who withdraws from or does not meet the minimum attendance requirement in the course must re-register for and repeat the course.

PASSING AND DECLARATION OF EXAMINATION RESULTS

All assessments of all the courses on the absolute mark basis will be considered and passed by the results passing board in accordance with the rules of the University. Thereafter, the Controller of Examinations shall convert the marks for each course to the corresponding letter grade as follows, compute the grade point average & cumulative grade point average and prepare the grade cards.

90 to 100 marks	-	Grade 'S'

80 to 89 marks	-	Grade 'A'
70 to 79 marks	-	Grade 'B'
60 to 69 marks	-	Grade 'C'
55 to 59 marks	-	Grade 'D'
50 to 54 marks	-	Grade 'E'
less than 50 marks	-	Grade 'F'
Insufficient attendance	-	Grade 'I'
Withdrawn from the course	-	Grade 'W'

A student who obtains less than 50 marks out of 100 in the subject or less than 24 out of 60 in External exam or is absent for the examination will be awarded Grade 'F'.

A student who earns a grade of S,A,B,C,D or E for a course is declared to have successfully completed that course and earned the credits for that course. Such a course cannot be repeated by the student.

A student who obtains letter grade F in a course has to reappear for the examination in that course.

The following grade points are associated with each letter grade for calculating the grade point average.

S – 10; A-9; B-8; C-7; D-6; E-5; F-0

A student can apply for revaluation of one or more of his /her examination answer papers within a week from the date of issue of Grade sheet to the student on payment of the prescribed fee per paper. The application must be made to the Controller of Examinations with the recommendation of the Head of the Department.

After results are declared, Grade cards will be issued to the students. The Grade card will contain the list of courses registered during the year/semester, the grades scored and the grade point average (GPA) for the year/semester.

GPA is the sum of the products of the number of credits of a course with the grade point scored in that course, taken over all the

courses for the Year/Semester , divided by the sum of the number of credits for all courses taken in that year/semester. CGPA is similarly calculated considering all the courses taken from the time of admission.

After successful completion of the program, the Degree will be awarded with the following classification based on CGPA:

For First Class with Distinction, the student must earn a minimum of 196 credits within four years from the time of admission, pass all the courses in the first attempt and obtain a CGPA of 8.25 or above.

For First Class, the student must earn a minimum of 196 credits within five years from the time of admission and obtain a CGPA of 6.5 or above.

For Second Class, the student must earn a minimum of 196 credits within seven years from the time of admission.

ELECTIVES

Apart from the various Core courses offered in the curriculum of the branch of specialization, a student can choose a electives from a list of electives offered by the Department and from other Departments with the approval of the Head of the Department and the Head of the Department offering the course.

Examination Pattern for Sanskrit & Indian Culture paper

There will not be any External examination for Sanskrit and Indian Culture paper. Performance of students will be assessed through tests and assignments conducted by the same Department. The internal assessment pattern is as follows.

First test	30 Marks
Second test	30 Marks
Assignment (G.D + Seminar + Attendance + Class test)	40 Marks
	---
Total	100 Marks
Total Marks	100Marks
Passing Minimum marks	50%

In the last semester (B.E. - VI) marks are allotted for test (50) and project work (50). A Candidate shall be declared to have passed the examination, if he/she has secured a minimum mark of 50.

APPENDIX - 2

Fee Structure for Ph.D – July 2022/January 2023

श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA

(Deemed to be University u/s 3 of UGC act 1956) (Accredited with 'A' Grade by NAAC)

Enathur, Kanchipuram - 631561, Tamilnadu

www.kanchiuniv.ac.in

Ph.D. ADMISSIONS - JULY 2023 SESSION

Fee Structure for Ph.D.Programme –Full Time

Full-time

Fee Structure	First Year	Second and Third Year	Fourth Year onwards
Admission Fee	Rs. 2000/-	-	-
Course Fee	Rs. 3000/-	Rs. 2000/-	Rs. 2000/-
Doctoral Committee Fee	Rs. 5000/-	Rs. 5000/-	-
Laboratory / Library Fee	Rs. 2000/-	Rs. 2000/-	Rs. 2000/-
Total Fees	Rs. 12000/-	Rs. 9000/-	Rs. 4000/-

Synopsis Submission-Rs.5,000
Thesis Submission-Rs.15,000
First / Second Extension of Period of Research – Rs.5,000

Thesis Re-submission Fees-Rs.15,000
Change of Guide / Category / Topic – Rs.10,000
Methodology Examination Fees-Rs.1000/-per paper

Part-time

Fee Structure	First Year	Second and Third Year	Fourth Year onwards
Admission Fee	Rs. 2000/-	-	-
Course Fee	Rs. 40000/-	Rs. 25000/-	Rs. 25000/-
Doctoral Committee Fee	Rs. 15000/-	Rs. 15000/-	-
Laboratory / Library Fee	Rs. 2000/-	Rs. 7000/-	Rs. 7000/-
Total Fees	Rs. 59,000/-	Rs. 47000/-	Rs. 32000/-

Synopsis Submission-Rs.5,000
Thesis Submission-Rs.15,000
First / Second Extension of Period of Research – Rs.5,000

Thesis Re-submission Fees-Rs.15,000
Change of Guide / Category / Topic – Rs.10,000
Methodology Examination Fees-Rs.1000/-per paper

APPENDIX – 3

PUBLICATIONS OF STAFF MEMBERS

INTERNATIONAL JOURNAL FOR INNOVATIVE RESEARCH IN MULTIDISCIPLINARY FIELD
ISSN(O): 2455-0620 [Impact Factor: 7.581]
Monthly, Peer-Reviewed, Refereed, Indexed Journal with IC Value : 86.87
Volume - 10, Special Issue – 47, January- 2024, Publication Date: 30/01/2024

DOIs:10.2015/IJIRMF/ECSETI-2024/04 –:– Research Paper / Article / Review

Experimental study of Arduino based Automatic Vending Machine with Push button Interface

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Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya (SCSVMV University)
Email - tlakshmibai@kanchiuniv.ac.in

ABSTRACT: *This paper demonstrates an Arduino-powered vending machine with a push-button switch for user interaction. The system comprises a push-button switch, an Arduino board, a servo motor for item dispensing, and optional parts like an LCD for user feedback, collectively forming the proposed system. A simplified prototype model of a vending machine capable of dispensing items in response to user push-button input is designed.*

The hardware setup involves connecting the push-button switch and the dispensing motor to the Arduino board. The push-button switch serves as an input mechanism for user selection, while the motor controls the dispensing mechanism. Additional components, such as a display, may be integrated for enhanced user interaction.

The software component involves programming the Arduino using the Arduino IDE. The code incorporates logic to detect button presses, trigger the dispensing motor based on user input, and manage the dispensing process. Customization options exist to include features like multiple item selections, feedback messages, and inventory management.

This design showcases the integration of Arduino technology with a push-button interface for vending, advancing knowledge and practical applications of microcontroller-based systems and automation. It offers a framework for the development of more sophisticated vending machines and demonstrates the incorporation of cutting-edge technologies into everyday devices.

Key Words: *Arduino, Push-button switch, Dispensing servo motor, Inventory management.*

INTRODUCTION:

Vending machine evolution has been driven by the need for quick and easy access to a wide variety of products in today's fast-paced world. These pervasive automated gadgets, which provide everything from everyday necessities to snacks and drinks, have become an essential part of contemporary society. Vending machines represent the smooth incorporation of technology into our daily lives, streamlining transactions and improving user experiences, beyond just practicality. Using Arduino microcontroller technology and an approachable push button interface, this project sets out to design and build an automatic vending machine.

The goal of this project is to investigate how to combine a traditional idea with contemporary technology to create an automated vending machine that can be used as a useful and instructive tool. Our goal is to offer a user-friendly push button interface along with the capabilities of Arduino, making automation and control systems a more approachable topic. The goal of this project is to encourage innovation and creativity in the fields of robotics and embedded systems, as well as to make learning electronics and programming fun. The scope

श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)
SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA
(SCSVMV)
(Deemed to be University u/s 3 of the UGC Act 1956)
(Accredited with 'A' Grade by NAAC)
Enathur, Kanchipuram - 631 561.

Optimizing Interacting Systems with a Grey Wolf Optimization-Based Two-Mode Controller Design

Janani R
Department of Electronics and Instrumentation Engineering
Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya
Enathur, Kanchipuram

ABSTRACT

Designing a two-mode controller for processes within various industries poses a substantial challenge. This research explores the application of optimization techniques, specifically Gray Wolf Optimization and Adaptive Particle Swarm Optimization, for the design of a Proportional-Integral (PI) controller. The study focuses on a lab-scale interacting liquid tank system for both identification of the mathematical model and simulation purposes. The efficacy of the algorithms is assessed through a comparative analysis of simulation results, conducted using Simulink/MATLAB software, demonstrating the effectiveness of the proposed controller design.

KEYWORDS: *Meta-heuristic optimization, PI controller, Grey wolf optimization, Level system, Interacting system.*

INTRODUCTION

In the past two decades, the utilization of meta-heuristic optimization techniques has gained significant prominence in the design of controllers. Widely recognized, established techniques like Genetic Algorithm, Ant Colony Optimization, and Particle Swarm Optimization have gained substantial prominence. These algorithms, known for their simplicity, enable computer scientists to emulate diverse natural concepts, devise novel algorithms, or enhance existing meta-heuristics [1]. Distinguished by their initiation with random solutions, meta-heuristics eliminate the need for calculating derivatives within search spaces to identify the optimum solution. This characteristic renders them highly suitable for addressing real-world problems characterized by either expensive or unknown derivative information. Notably, meta-heuristics exhibit enhanced capabilities in steering clear of local optima when compared to conventional optimization techniques. Their stochastic nature facilitates the evasion of stagnation in local solutions, allowing for an extensive exploration of the entire search space. As a result, these algorithms present robust solutions for optimizing intricate problems encountered in process industries [2].

Regulating the liquid level across multiple tanks and managing the liquid flow between them poses a fundamental challenge. Within numerous chemical industries, the level control process is a standard practice. Ensuring that the process liquid maintains a specified level despite external disturbances is imperative. The complexity of level processes is evident, whether comprising a single tank or multiple interconnected tanks, making them intricate and challenging to control. Conventional PID controllers are commonly employed in these industries to address these control complexities

GREY WOLF ALGORITHM

Evolutionary algorithms inspired by nature, such as Genetic Algorithm (GA), swarm intelligent algorithms like Particle Swarm Optimization (PSO), Cuckoo Search algorithm (CS), BAT algorithm, and physics-inspired methods like Simulated Annealing (SA) and Center Force Optimization (CFO), have demonstrated efficacy in solving intricate global optimization problems [3]. Grey Wolf Optimization (GWO) stands out as a recently developed meta-heuristic optimization method inspired by the social structure of grey wolves [4]. The effectiveness of this algorithm in tackling non-convex engineering optimization challenges has been demonstrated, outperforming DE, PSO, GSA,

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journal homepage: www.sciencedirect.com/journal/measurement-sensors

Design of TITO system using ANFIS-PID controller for polymerization industry

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ARTICLE INFO

Keywords:
Nonlinear system
TITO
PID
ANFIS PID controller
Fuzzy Rules

ABSTRACT

Today, PID controllers are widely employed in a wide variety of manufacturing processes to regulate critical inputs. In this study, an ANFIS-PID controller with adaptive tuning parameters is introduced. This design works well for a nonlinear, closed-loop system with two inputs and two outputs (known as a TITO system). The key benefit here is incorporating the Sugeno function, which is based on the equation of conventional PID control and decoupling coefficients, into the fuzzy rules. Because of this, the decoupling ANFIS- PID controller that was developed may be seen as a natural analogue to the traditional one with decoupling components. The paper considers the implementation of a TITO nonlinear system to demonstrate the merits of the design paradigm. The proposed method is been validated using simulation results.

1. Introduction

Many multivariable issues may be seen as a series of problems in the TITO system, and the TITO system itself arises often in industrial processes [1]. However, many closed-loop control techniques for SISO systems with a time delay cannot be easily adapted to TITO systems with a time delay due to the existence of coupling between two variables [1]. A closed-loop system has a hard time being stable even with a very modest configurable gain due to the phase lag introduced by the time delay. Internal coupling in a multivariate process with a temporal delay makes this issue more difficult to solve (see Fig. 7).

The design of conventional PID controllers is limited to consideration of just one of two scenarios: either monitoring a fixed value or suppressing disturbance. As a result, the typical PID controller has a tough time achieving the ideal control effect. In 1963, Horowitz was the one who first proposed the idea of a PID control system with two degrees of freedom. Two-degree-of-freedom PI controller design was utilized by Astrom and Panagopoulos [2] to achieve maximum sensitivity in a closed-loop system after optimizing its settings. As part of their study, Wang et al. [3] performed a structural analysis for a nonlinear robust controller type. They achieved this by building the coefficients of the desired dynamic equation, which enabled them to design a similar version of PID in which the control demands are reflected in the controller settings. They accomplished this by constructing the coefficients of the desired dynamic equation (DDE). They devised a DDE approach for the PID controller that has two degrees of freedom [4]. This approach does not need an exact mathematical model to function, and it can adjust to the unmodeled dynamics of a regulated process via the use of online regulation. The motivation for introducing the ANFIS-PID controller with adaptive tuning parameters in this study is to overcome the challenges of controlling nonlinear, closed-loop TITO systems. By incorporating the Sugeno function and decoupling coefficients into the fuzzy rules, the controller aims to improve control performance and stability in a manner analogous to traditional decoupling controllers.

To control the process parameters, the author of this study proposes using an ANFIS-PID controller with auto-tuning parameters.

Designing PID controllers for a process with multiple inputs and outputs (also known as MIMO) is more challenging than designing PID controllers for a process with a single input and a single output (SISO). This is because the interaction that occurs between the several control loops that comprise a MIMO system affects the performance of each of the loops individually. Therefore, a PID tuning method optimized for a single-input, single-output (SISO) system would not work well in a multiple-input, multiple-output (MIMO) setup. This research endeavors to probe many facets of auto-tuning PID controllers for a TITO system. What I mean by it is: Two relay controllers are utilized in auto-tuning to determine the critical point. After that, the generalized ANFIS-PID controller is applied to the process, and it is utilized to calculate the

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Mukt Shabd Journal ISSN NO : 2347-3150

PLC BASED PID CONTROLLED BATCH PROCESS

K.Saraswathi
Department of Electronics and Instrumentation Engineering
Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya
Kanchipuram – 631561.
Tamil Nadu, India.

ABSTRACT

A PLC (Programmable Logic Controller) based PID (Proportional-Integral-Derivative) controlled batch process is an automated configuration that is frequently employed in manufacturing, chemical processing, and food preparation. Using a PID (Proportional-Integral-Derivative) controller based on a PLC (Programmable Logic Controller) has numerous benefits in industrial automation. When all is said and done, a PLC-based PID controlled batch process offers precise and consistent control over industrial processes, improving production, productivity, and security.

Keywords: PLC (Programmable Logic Controller), PID (Proportional-Integral-Derivative) and Batch Process

I. Introduction

Programmable Logic Controllers (PLCs) are the backbone of the industrial automation world, coordinating the complex dance of equipment and processes. PLCs, which have changed industry since their invention in the late 1960s, offer unmatched control, dependability, and flexibility. This paper deals into the crucial role PLCs play in automation, explaining their development, essential features, industrial uses, and revolutionary influence on contemporary production processes.

Evolution of PLCs: The requirement for adaptable, dependable control systems in industrial settings is responsible for the development of PLCs. Originally designed to replace intricate relay-based control systems, the first PLCs were basic devices that carried out straightforward logic commands. PLCs have reached unprecedented heights with enhanced processing power, memory capacity, and integrated communication capabilities thanks to technological breakthroughs throughout the years. Modern PLCs are powerful machines that can perform intricate algorithms, communicate with a wide range of sensors and actuators, and combine easily with other automation systems.

PLC functions include: PLCs' fundamental features, which allow for exact control and monitoring of industrial processes, are at its core. Among these features are: Programmability: Because PLCs can be programmed, engineers can design unique control algorithms that are suited to particular uses. Programming languages offering a flexible toolkit for control logic

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Linear Programming Model of Maximum Network Flow and Its Solution

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[2]sundart@kanchiuniv.ac.in

ABSTRACT:

The flow network design is one of the applications with the complex network to be solved in many real-life applications. Generally, the network flow is modeled as a graph with the capacity of the edge and workplace as nodes. The objective of flow network design is to find the maximum flow value. This type of problem can be designed as a graph and many novel models are applied to solve this type of flow problem. In this, a novel method is applied to model the flow network as a linear programming design. The designed linear programming of the flow network is solved using open software and the solution was checked with the existing models of the flow network.

Keywords: Flow Network, Linear Programming, Start node, End node, Maximum flow, and Objective.

I. INTRODUCTION

Networking deals with a great section of operation research. Many problems of our daily life can be represented by the network model. There are four types of network model shortest path model, minimum spanning tree model, maximal flow model, and minimum cost capacity network model. The linear programming model is used in many varieties of complex situations in a real-world application. The application of the linear programming model is wide processed such as in business or economic situations where the existing resources are limited. The problem there will be to make use of the available resources in such a way that to maximize production or minimize the expenditure. These data can be formulated as linear programming

श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)
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(Deemed to be University u/s 3 of the UGC Act 1956)
(Accredited with 'A' Grade by NAAC)
Enathur, Kanchipuram - 631 561.

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Review Article

Study of Sequencing Model Application and Solution of LPP Formulation

K. Bharathi[1] and T. Sundar[2]

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[2]*Assistant Professor, Department of Electronics and Instrumentation Engineering, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram, Tamilnadu, India.*

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ABSTRACT: *Sequencing models, which are a type of machine learning model, are designed to process and generate sequences of data. They have found numerous applications across various domains due to their ability to understand patterns and relationships within sequential data. A sequencing model refers to tasks where you need to determine the optimal order or arrangement of items or events according to certain criteria. Linear programming can be used to solve optimization problems, and it's possible to frame some sequencing problems as linear programming problems. Sequencing models deal with arranging items or events in a specific order to optimize certain objectives. They find applications in various fields. Both sequencing models and linear programming are powerful tools that require a solid understanding of mathematical concepts, problem formulation, and appropriate solution techniques to effectively address complex real-world challenges. To solve an LPP, you'll need to translate the real-world problem into a mathematical model, apply the appropriate solution method, and then interpret the results in the context of the problem.*

KEYWORDS: *Sequencing models, Linear Programming, Arrangement, Events, Maximum, Minimum, and Objective.*

INTRODUCTION

A sequencing model as a Linear Programming Problem (LPP) involves representing the task of arranging items or events in a particular order as an optimization problem. Linear programming provides a framework to find the optimal sequence that meets specific objectives while satisfying various constraints. Sequencing models deal with determining the best arrangement or order of items, tasks, or events to optimize a certain objective. This can involve minimizing completion times, maximizing efficiency, or adhering to specific constraints. Linear programming, on the other hand, is an optimization technique used to find the best solution for linear problems under certain constraints. Sequencing problems involves arranging a set of items, tasks, or activities in a specific order to achieve certain objectives while considering various constraints. These problems are common in fields such as manufacturing, scheduling, operations research, and more. Linear Programming is a powerful optimization technique used to solve problems where the goal is to maximize or minimize a linear objective function subject to linear constraints. Sequencing problems involves arranging tasks, items, or events in a specific order to achieve desired objectives while considering various constraints. Linear Programming provides a mathematical framework to solve optimization problems

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Article Received: 17 Dec' 2023; Accepted: 31 Dec' 2023.

Review Article

A Comprehensive Review of Thermal Power Plants in India

T. Sundar[1] and K. Bharathi[2]

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[2]*Assistant Professor, Department of Mathematics, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram, Tamilnadu, India.*

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ABSTRACT: ***A review of a thermal power plant in India would typically encompass various aspects related to its design, operation, environmental impact, efficiency, and overall contribution to the energy sector. Here is a structured outline for a review of a thermal power plant in India. The description you have provided accurately outlines the basic principles of a thermal power station and its operation using the Rankine cycle. It is a concise overview of how heat energy is converted into electrical energy using steam turbines.***

KEYWORDS: ***Boiler, Electrical Energy, Heat Energy, Mechanical Power and Thermal.***

INTRODUCTION

The thermal power plant under review, including its name, location, capacity, and ownership. Mention its significance in the local and national energy landscape.

Rankine Cycle:

The Rankine cycle is a thermodynamic cycle that is commonly used in steam power plants. It involves four main processes: compression (pumping), heating, expansion (turbine work), and cooling (condensation). This cycle allows for the efficient conversion of heat into mechanical work, which is then converted into electrical energy.

Energy Sources:

Thermal power stations can use a variety of energy sources for heat generation.

Fossil Fuels:

Coal, oil, and natural gas are commonly used to produce the heat necessary to drive the Rankine cycle. These sources involve combustion to generate the required high temperatures.

Nuclear Power:

Nuclear reactors use controlled nuclear reactions to produce heat, which is then used to generate steam.

Geothermal Power:

Geothermal energy taps into the Earth's heat from within, utilizing steam or hot water reservoirs.

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Textile Horizontal T-Shaped Ultrawide Band Microstrip Patch Antenna for WBAN Applications

Publisher: IEEE Cite This PDF

K. Sugapriya All Authors

21
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Text Views

Abstract:
In the medical atmosphere wireless body area network technology plays a most common and difficult task for continuous health monitoring. The proposed design's major goal is to accomplish a low Specific Absorption Rate (SAR) and to get excellent communication in a wireless sensor environment. An antenna is the most common communication equipment in the digital era with its unique designs and excellent findings. The design approach is appropriate to create a new horizontal T-shape slot in a rectangular patch UWB microstrip patch antenna used in medical environments for wearable applications and the designed antenna is simulated using a High-Frequency Structural Simulator (HFSS) utilizing a textile

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IOT-Based Water Level Management System

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Micro-Electronics and Telecommunication Engineering (ICMETE 2023)

N. C. A. Boovarahan, S. Lakshmi, K. Umapathy, T. Dinesh Kumar, M. A. Archana, K. Saraswathi, S. Omkumar & Ahmed Hussein Alkhayyat

Part of the book series: Lecture Notes in Networks and Systems ((LNNS, volume 894))

Included in the following conference series: International Conference on Micro-Electronics and Telecommunication Engineering

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Abstract

In countries like India, shortage of water is a serious concern, especially in the southern states such as Tamil Nadu, Kerala and Andhra Pradesh. This shortage of water becomes entangled when there is a loss of water during transmission process. Hence, there must be innovative methodologies for water management and automation for commercial

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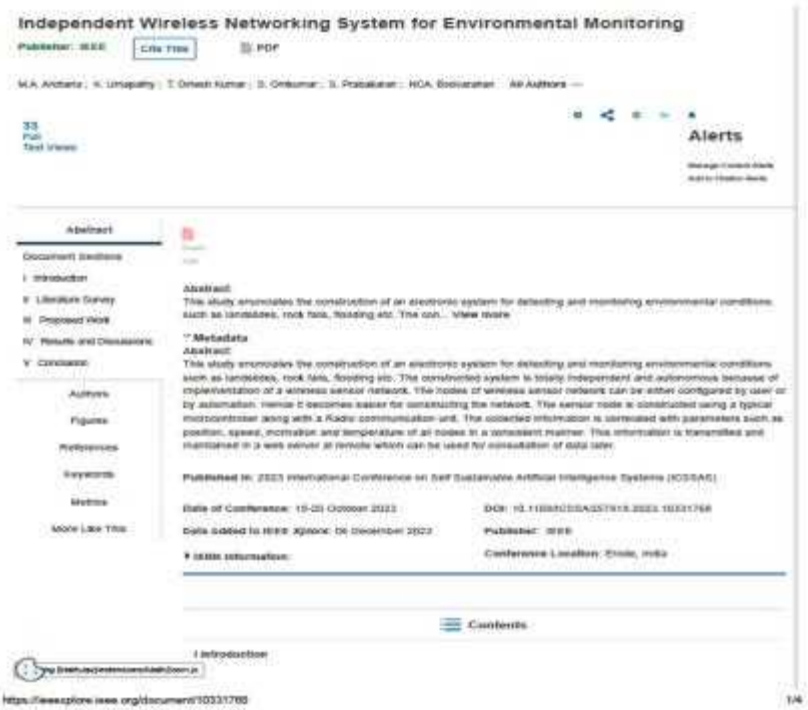

Independent Wireless Networking System for Environmental Monitoring

Publisher: IEEE Cite This PDF

M.A. Archana ; K. Umapathy ; T. Dinesh Kumar ; S. Omkumar ; S. Prabakaran ; N.C.A. Boovarahan All Authors

33 Full Text Views

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II. Literature Survey

III. Proposed Work

IV. Results and Discussions

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Abstract:
This study enumerates the construction of an electronic system for detecting and monitoring environmental conditions such as landslides, rock falls, flooding etc. The constructed system is totally independent and autonomous because of implementation of a wireless sensor network. The nodes of wireless sensor network can be either configured by user or by automation. Hence it becomes easier for constructing the network. The sensor node is constructed using a typical microcontroller along with a Radio communication unit. The collected information is correlated with parameters such as position, speed, inclination and temperature of all nodes in a consistent manner. This information is transmitted and maintained in a web server at remote which can be used for consultation of data later.

Published in: 2023 International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS)

Date of Conference: 18-20 October 2023 DOI: 10.1109/ICSSAS57918.2023.10331768

Date Added to IEEE Xplore: 06 December 2023 Publisher: IEEE

ISBN Information: Conference Location: Erode, India

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Fuzzy Network Based 6G Framework for Healthcare Applications

Publisher: IEEE | Cite This | PDF

V. Suresh Kumar ; NCA. Boovarahan ; C. Parthasarathy ; K. Umapathy ; T. Dinesh Kumar ; S. Omkumar All Authors

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Abstract:
The architecture of bit technique can be exploited for correcting various applications of network to provide consistent communication of data within the nodes. This technique offers excellent features and improved facilities for optimum operations. A fuzzy network based 6G framework is presented in order to provide Hospital to Home (H2H) services in place of ambulance services. In the coming days, vehicles will be manufactured in an intelligent way with help of AI. H2H will be promoted with an intelligent and smart vehicle having less amount of dependence on hospitals. This mobile hospital can track any sort of emergency environment and rush to the place for saving human beings. This approach can improve the lifestyle in these modern days. This study enunciates the evolution of 6G communication on modern lifestyles by means of H2H services. Hence patients can be treated well in advance before going to hospitals.

Published in: 2023 International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS)

Date of Conference: 18-20 October 2023 | DOI: 10.1109/ICSSAS57918.2023.10331686

Date Added to IEEE Xplore: 06 December 2023 | Publisher: IEEE

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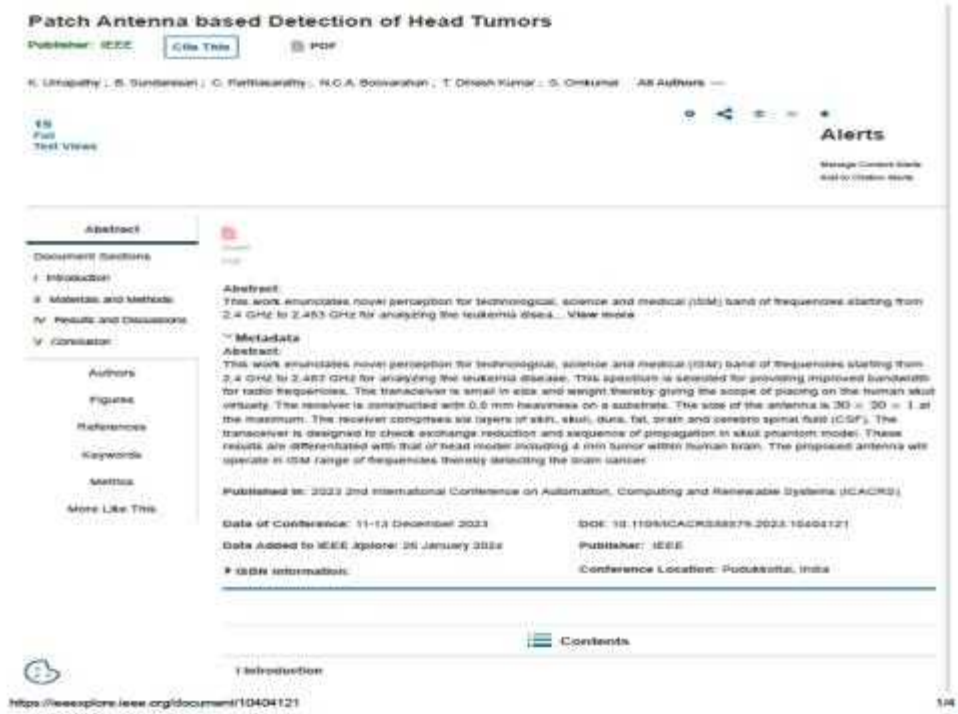

Patch Antenna based Detection of Head Tumors

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K. Umapathy ; B. Sundaresan ; C. Parthasarathy ; N.C.A. Boovarahan ; T. Dinesh Kumar ; S. Omkumar All Authors

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Abstract:
This work enunciates novel perception for technological, science and medical (ISM) band of frequencies starting from 2.4 GHz to 2.483 GHz for analyzing the leukemia disease. This spectrum is selected for providing improved bandwidth for radio frequencies. The transceiver is small in size and weight thereby giving the scope of placing on the human skull virtually. The resolver is constructed with 0.0 mm heaviness on a substrate. The size of the antenna is 30 × 30 × 1 at the maximum. The receiver comprises six layers of skin, skull, dura, fat, brain and cerebro spinal fluid (CSF). The transceiver is designed to check exchange reduction and sequence of propagation in skull phantom model. These results are differentiated with that of head model including 4 mm tumor within human brain. The proposed antenna will operate in ISM range of frequencies thereby detecting the brain cancer.

Published in: 2023 2nd International Conference on Automation, Computing and Renewable Systems (ICACRS)

Date of Conference: 11-13 December 2023 | DOI: 10.1109/ICACRS58579.2023.10404121

Date Added to IEEE Xplore: 26 January 2024 | Publisher: IEEE

ISBN Information: | Conference Location: Pudukkottai, India

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made the air quality to questionable point. Pollution levels are rising exponentially as a result of factors such as industry, urbanization, population growth and usage of automobiles which all lead to problems harmful to human health. If the air quality drops below a particular threshold, the indicator shows there are harmful gases in the air such as—carbon dioxide, smoke, alcohol, benzene, ammonia and nitrogen oxide. This vital measurement will give appropriate awareness among the public towards healthier life.

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Conference paper | First Online: 22 March 2024

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Micro-Electronics and Telecommunication Engineering (ICMETE 2023)

M. A. Archana, T. Dinesh Kumar, K. Umapathy, S. Omkumar, S. Prabakaran, N. C. A. Boovarahan, C. Parthasarathy & Ahmed Hussein Alkhayyat

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 894))

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Abstract

A number of fire accidents in forests occur around the globe every year which amount to catastrophes beyond all sorts of comprehensions. Behind this, many houses and lot of trees pose a serious threat to forests grown in an ambient and healthy environment. This

APPENDIX - 4 SENSORS TECHNOLOGY

Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya

(Deemed to be University)
Enathur,Kanchipuram-631561.

CURRICULUMANDSYLLABUS

ForHons.Course-SENSORSTECHNOLOGY

DEPARTMENT OF ELECTRONICSAND INSTRUMENTATION ENGINEERING

FULL TIME BE– ELECTRONICS AND INSTRUMENTATION ENGINEERING

VISION

Academic Excellence and to be in dynamic equilibrium with Contemporary Industry.

MISSION

- To develop students with strong foundation in fundamentals
- To establish a laboratory with latest technologies.
- To provide continuous help to students to develop their overall personality, skills, confidence and character.

PROGRAMMEEDUCATIONALOBJECTIVES

Graduates of this program

PEO1 Comprises strong fundamental knowledge in solving multi-disciplinary problems

PEO2 Possess successful technical or professional careers

PEO3 Continue to learn and to adapt to the day to day evolving technology in the world

PEO 4 Encouraged to design industrial automation systems that are innovative and socially acceptable.

DEFINITION OF CREDIT

1HourLecture/week(L)	1credit
1HourTutorial/week(T)	1credit
1HourPractical/week(P)	0.5 credit

Programme Outcomes (POs):

Graduates of Mechatronics Engineering program of Sri Chandrasekharendra Saraswathi Viswa Mahavidyalayawillhave the ability to

PO.1 Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, andan engineering specialization to the solution of complex engineering problems

PO.2 Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO.3 Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO.4 Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO.5 ModernToolUsage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO.6 The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO.7 Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO.8 Ethics:Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO.9 Individual and Teamwork: Function effectivelyas an individual, and as a member or leader indiverse teams, and in multidisciplinary settings.

PO.10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO.11 Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one‟ sown work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO.12 Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life- long learning in the broadest context of technological change.

B.E/B.Tech-Hons./Minor Degrees in Emerging Areas (Optional)

Emerging Areas	Offered as Hons., for the following Major Disciplines*	Offered as Minor Degrees for The following Major Disciplines**
Artificial Intelligence and Machine Learning / Cyber Security / Internet of Things (IoT)	CSE/ECE/ IT	Mechanical/Civil/ECE/EIE/ Mechatronics
Sensors Technology	ECE/CSE/EIE/ Mechatronics	Mechanical/Civil/EEE/IT
3DPrinting	Mechanical/Civil	ECE/CSE/EIE/ Mechatronics/ EEE /IT
Electric Vehicles	Mechanical/EEE	ECE/CSE/EIE/Mechatronics /IT/Civil
Robotics	Mechanical/ECE	CSE/EIE/Mechatronics/IT/ Civil/EEE

Note: The "Minor Degree or Hons. will cumulatively require additional 18 to 20 credits in the specified area in addition to the credits essential for obtaining the Under GraduateDegree in Major Discipline.

*** Under Graduate Degree Courses in EMERGING AREAS shall be allowed asspecialization from the same Department. The minimum additional Credits for such Courses shall be in the range of 18-20 and the same shall be mentioned in the degree, asspecialization in that particular area.**

**** Minor specialization in EMERGING AREAS in Under Graduate Degree Courses may be allowed where a student of another Department shall take the minimum additional Credits in the range of 18-20 and get a degree with minor from another Department.**

Curriculum for BE (Hons.) Course– Sensors Technology

SL.No	Course Title	Semester	Credits
1	Basics of Sensors and Actuators	3	4
2	Medical Sensors	4	4
3	Automotive Sensors	5	3
4	Micro Sensors and Micro Fluidics	6	3
5	Smart Sensor Laboratory	6	2
6	Sensor Based Design Laboratory	7	2
Total Credits			**18**