



श्रीचन्द्रशेखरन्द्रसरस्वतावश्वमहाविद्यालयः  
**SRI CHANDRASEKHARENDRASARASWATHI  
VISWA MAHAVIDYALAYA**

Deemed to be University (Accredited with "A" grade by NAAC)  
Enathur, Kanchipuram - 631 861, Tamilnadu, India [www.kanchiuniv.ac.in](http://www.kanchiuniv.ac.in)



**Electronics  
& Instrumentation Engineering**

# **DEPARTMENT PROFILE**

**2022-2023**





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(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयवर्षमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

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**DEPARTMENT  
OF  
ELECTRONICS AND INSTRUMENTATION ENGINEERING  
DEPARTMENT PROFILE 2022-2023**





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## 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.



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## 2. VISION AND MISSION

### 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.



### 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, Xilinx, 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 15<sup>th</sup>, **Engineers' day** is celebrated every year by inviting industrial experts to share their experience and ideas.

### ● 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.

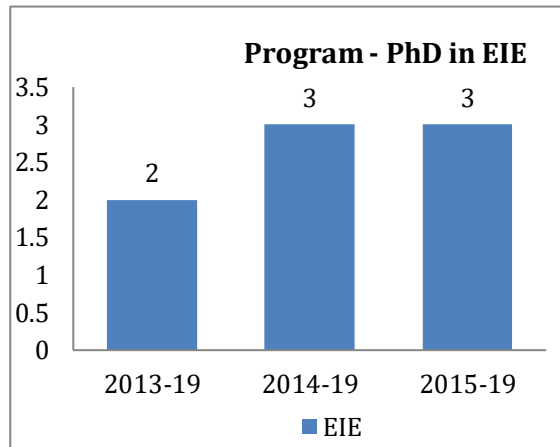
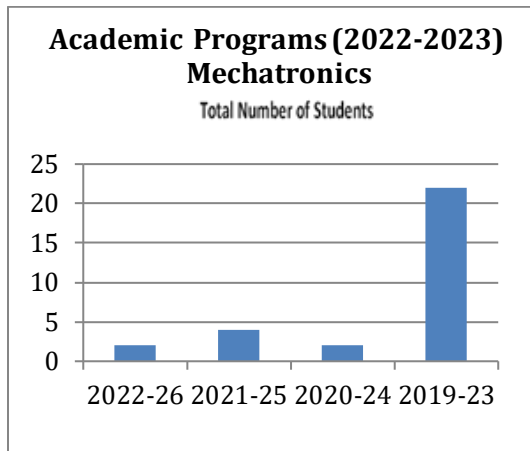




#### 4. ACADEMIC PROGRAMS (2022-2023)

PROGRAM	SANCTIONED STRENGTH	YEAR	BATCH	TOTAL NUMBER OF STUDENTS STRENGTH
UG EIE	NIL	I	2022-26	Nil
		II	2021-25	Nil
		III	2020-24	Nil
		IV	2019-23	Nil
UG MECHATRONICS	30	I	2022-26	02
		II	2021-25	04
		III	2020-24	02
		IV	2019-23	22
RESEARCH (Ph.D in EIE dept)	08	-	2013-19	02
		-	2014-19	03
		-	2015-19	03

#### ACADEMIC PROGRAMS (2022-2023)





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## 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
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Electronics and Instrumentation Engineering	<ul style="list-style-type: none"><li>● Electronic Devices and Circuits Lab</li><li>● Microprocessor and Microcontroller Lab</li><li>● Analog and digital communication Lab</li><li>● Transducer and Industrial Instruments Lab</li><li>● Virtual Instrumentation Lab/Computer Control Lab</li><li>● Industrial Process Control Lab</li></ul>	<ul style="list-style-type: none"><li>● Analog Communication</li><li>● Power Plant Instrumentation</li><li>● Analytical Instrumentation</li><li>● Fiber optics and Laser Instrumentation</li><li>● Robotics and Automation</li><li>● Advanced Control System</li><li>● Digital Communication</li><li>● Embedded Systems</li><li>● Programmable Logic Controller</li><li>● Wireless Sensor Network</li><li>● Neural Network and Fuzzy Logic Network</li><li>● Virtual Instrumentation</li><li>● Computer Aided Instrumentation</li><li>● Instrumentation and control in Iron and Steel Industries</li><li>● MEMS and Nano Technology</li><li>● Instrumentation and control in Petro Chemical Industries</li><li>● Instrumentation and control in Food Processing</li><li>● Nuclear Instrumentation</li><li>● Machine Vision</li><li>● Aircraft Instrumentation</li><li>● Bio Medical Instrumentation</li></ul>
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COURSE	LABORATORY	ELECTIVE SUBJECTS
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Mechatronics Engineering	<ul style="list-style-type: none"><li>● Electronic Devices and Circuits Lab</li><li>● Microprocessor and Microcontroller Lab</li><li>● Analog and digital communication Lab</li><li>● Transducer and Industrial Instruments Lab</li><li>● Virtual Instrumentation Lab/Computer Control Lab</li><li>● Industrial Process Control Lab</li></ul>	<ul style="list-style-type: none"><li>● Theory of Machines</li><li>● Metrology and Measurements</li><li>● Refrigeration and AirConditioning</li><li>● Internal Combustion Engines</li><li>● Machine Design</li><li>● Finite Element Analysis</li><li>● Design of Jigs and Fixtures</li><li>● Rapid Manufacturing Technology</li><li>● CIM</li><li>● Process Planning and Cost Estimation</li><li>● Mechanical Vibration and noise control</li><li>● Machine Vision</li><li>● Autotronics</li><li>● Design of Mechatronics Systems</li></ul>
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## 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 Acquisition 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	



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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 Communication	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*	BEIF1800	Japanese Primer/French Primer/ German 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*	BEIF180OE	Japanese Primer/French Primer/ German 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



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**Professional Elective Course -4**

**SEMESTER 7**

S.No	Sub.Code	Subject Name
1	BEIF187EM0	Computer Control of Process
2	BEIF187EN0	Process Equipment Design
3	BEIF187E00	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	BEIF1870EI	Data Communication and Network Systems
2	BEIF1870EJ	Energy Harvesting Technology
3	BEIF1870EK	Disaster Management
4	BEIF1870EL	Battery Technology

**Open Elective Course -4**

**SEMESTER 8**

S.No	Sub.Code	Subject Name
1	BEIF1880EL	Data Compression Techniques
2	BEIF1880EM	Satellite Communication
3	BEIF1880EN	Entrepreneurship Development
4	BEIF1880EO	IoT in Automation

**Optional Open Elective Course - Foreign Language**

S.No	Sub.Code	Subject Name
1	BEIF1800EA	Japanese Primer
2	BEIF1800EB	French Primer
3	BEIF1800EC	German 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
		<b>TOTAL</b>	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*
		<b>TOTAL</b>	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*
		<b>TOTAL</b>	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



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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*
		<b>TOTAL</b>	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*
		<b>TOTAL</b>	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*
		<b>TOTAL</b>	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
		<b>TOTAL</b>	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
		<b>TOTAL</b>	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	<b>OEC I (V Sem)</b>	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	<b>OEC II (VI Sem)</b>	Biomedical Instrumentation	3	-	-	3
6		Human Resource Management	3	-	-	3
7		Waste water Engineering	3	-	-	3
8		Radar and Navigation	3	-	-	3
9	<b>OEC III (VII Sem)</b>	Aircraft Instrumentation	3	-	-	3
10		Energy Harvesting Technologies	3	-	-	3
11		Disaster Management	3	-	-	3
12		Data Communication and network Systems	3	-	-	3
13	<b>OEC IV (VIII Sem)</b>	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	<b>Optional OEC - Foreign Language</b>	French Primer	-	-	1	2
19		Japanese Primer	-	-	1	2
20		German Primer	-	-	1	2



## 6. ADMISSION DETAILS (2022-2023)

**EIE**

**NIL**

### ADMISSION DETAILS

**2022-2023**

#### I 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

#### II 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



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**ADMISSION DETAILS**

**2022-2023**

**III 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

**IV YEAR MECHATRONICS (2019-2023 BATCH)**

S.NO	REG.NO	NAME	GENDER	REGION - WIDE
1	11199H001	Aduri.Hari Datta Raja Ram	Male	Andhra Pradesh
2	11199H002	Appikatla Vijay	Male	Andhra Pradesh
3	11199H003	T.V.S.Avinash	Male	Tamil Nadu
4	11199H004	Kamatam.Baavesh Reddy	Male	Andhra Pradesh
5	11199H005	S.Barath Kannaa	Male	Tamilnadu
6	11199H006	R.Devanand	Male	Tamilnadu
7	11199H007	Dinesh Kumar.K	Male	Tamilnadu
8	11199H008	G. Lohith Kumar	Male	Andhra Pradesh
9	11199H009	G.Sri Durga Rajeswari	Female	Andhrapradesh
10	11199H010	Hari Ramanan S	Male	Tamil Nadu





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11	11199H011	Jambula Jaya Surya Reddy	Male	Telangana
12	11199H012	K.Sai Kalyan	Male	Andhra Pradesh
13	11199H013	Manu Mahaadev G	Male	Tamil Nadu
14	11199H015	P.Sakthivel	Male	Tamilnadu
15	11199H016	SK. Yaseen	Male	Andhrapradesh
16	11199H017	Shrinivas A	Male	Tamilnadu
17	11199H018	S.Chaitanya Venkat	Male	Andhra Pradesh
18	11199H019	Srihari B R	Male	Tamilnadu
19	11199H020	Thamarai Selvan .D	Male	Tamil Nadu
20	11199H021	Abhinav Kumar.V	Male	Telangana
21	11199H022	Venkat Achyuth Mantrala	Male	Andhra Pradesh
22	11199H023	Gurram Sai Sandeep	Male	Andhra Pradesh



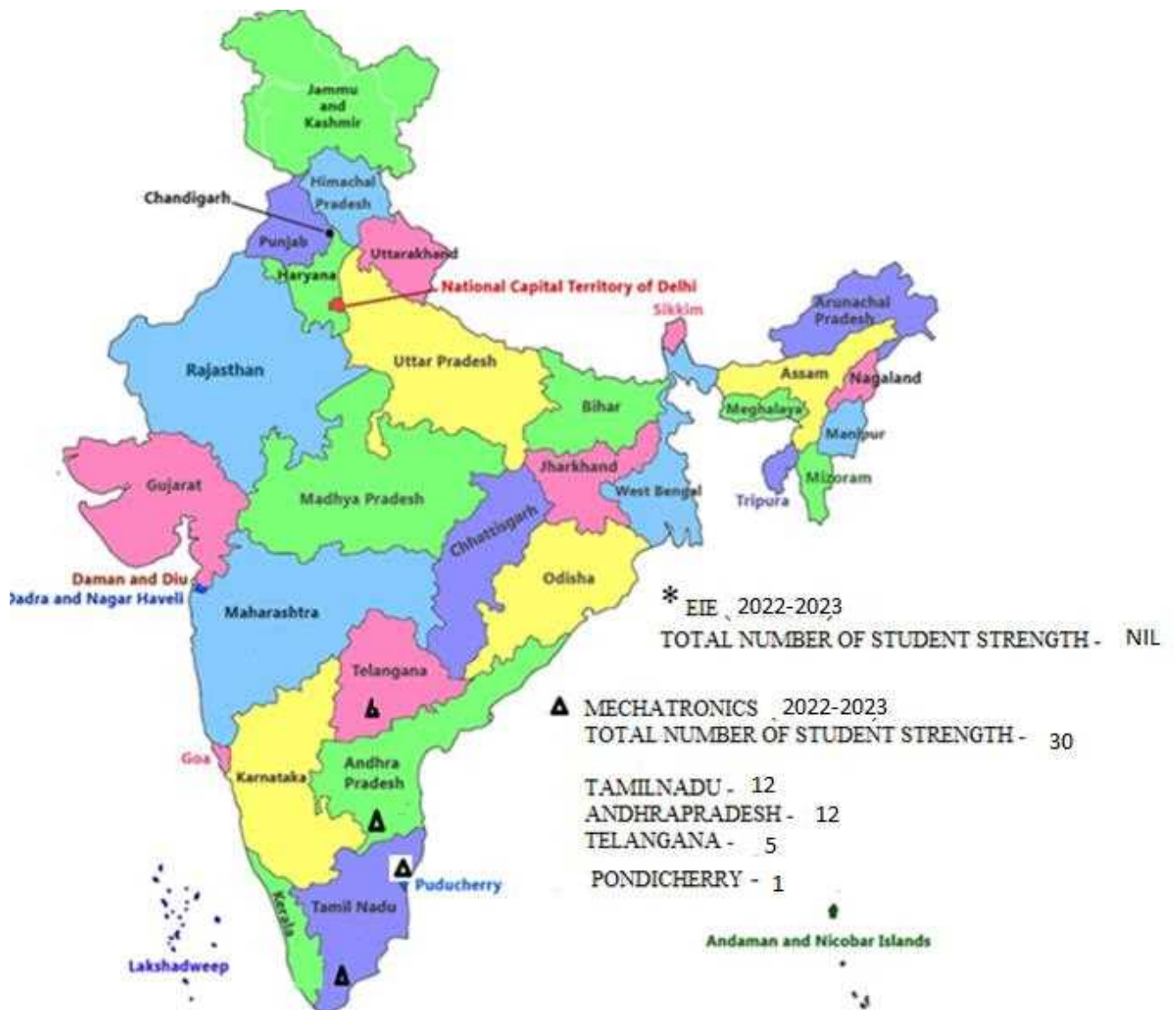
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**EIE - (In the academic year 2022-23)**  
**(TOTAL NUMBER OF STUDENTS including I, II, III & IV Years)**  
**EIE – NIL**  
**MECHATRONICS – 30**





## 7. FEES STRUCTURE (2022-2023)

### REGULAR

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

Particulars	Amount In Rs.
Total first year fee (Including onetime fee of Rs.25,000/- towards Registration / Admin Fees / Lab Fees / Knowledge facilities Fees)	1,45,000

B.E (Lateral Entry)

Particulars	Amount In Rs.
Total fee for the II year (Including onetime fee of Rs.25,000/- towards Registration / Admin Fees / Lab Fees / Knowledge facilities Fee)	1,45,000

B.E (Part Time)

Particulars	Amount In Rs.
Total first year fee (Including onetime fee of Rs.10,000/- towards Registration / Admin Fees / Lab Fees / Knowledge facilities Fees)	1,10,000



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## Ph.D Admission



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Enathur, Kanchipuram - 631561, Tamilnadu  
[www.kanchiuniv.ac.in](http://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/-
<b>Total Fees</b>	<b>Rs. 12000/-</b>	<b>Rs. 9000/-</b>	<b>Rs. 4000/-</b>

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/-
<b>Total Fees</b>	<b>Rs. 59,000/-</b>	<b>Rs. 47000/-</b>	<b>Rs. 32000/-</b>

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



## 8. FACULTY POSITION – (2022-2023)

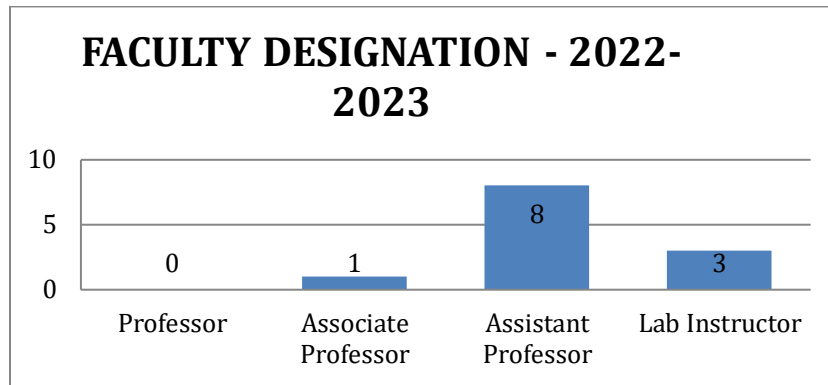
S.No	Name	Qualification	Designation
1.	Mr.V.Swaminathan	B.E., M.Sc. (Engg)	HOD / Associate Professor
2.	Dr.K.Saraswathi	M.E., Ph.D	Assistant Professor ( Gr II )
3.	Dr.R.Janani	M.Tech., M.B.A., Ph.D	Assistant Professor ( Gr II )
4.	Dr.G.P.Sivakumar	M.Tech., Ph.D	Assistant Professor ( Gr II )
5.	Dr.T.Sundar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



## 2022-2023

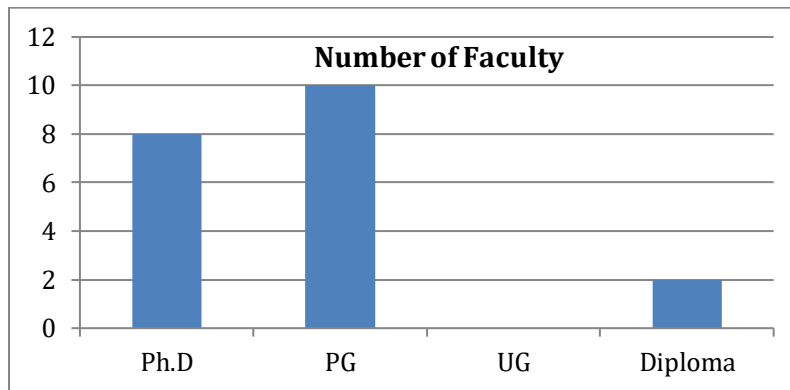
### Designation

Designation	Professor	Associate Professor	Assistant Professor	Lab Instructor
Faculty strength	-	1	8	3



### Qualification

Qualification	PhD	PG	UG	Diploma
Number of Faculty	8	10	-	2





## 9. FACULTY PROFILE



Mr. V. Swaminathan  
Associate Professor,

Area: Electrical Engineering  
Affiliation: Department of Electronics and Instrumentation Engineering,  
Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV),  
Enathur, Kanchipuram.  
Email:swami\_1949@rediffmail.com, swaminathan.v@kanchiuniv.ac.in

### Education

B.E	Electrical Engineering	Allagappa Chettaiar College of Engineering and Technology, 1971
M.Sc (Engg.)	Power Systems	Regional Engineering College, Trichy, 1973

### Other Details:

#### Course

- Electrical Engineering, Electric Design, Transmission and Distribution, Power Plant Instrumentation, Circuit Theory, Principles of Management and Professional Ethics, Measurement and Instrumentation

#### Research Interests

- Electric Motors and Drives.

#### Other Professional Experiences

- Manager Engineering Services in Kolar Gold Fields, 1973-1996.
- Manager Production in Hydromet India Limited 1996-2002.
- Life Member in Instrumentation Society of India.



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-2022), "Tuning of PID Controller Using Hybridized Modified Firefly-Chaos Algorithm in Industrialized Polymerization Reactors", in International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING.
- K. Saraswathi (Aug-2022), "Fuzzy Logic Controller Design and Simulation for Industrial Application", in International Journal of Creative Research Thoughts (IJCRT).

##### 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 Electronics Engineering	Board of Technical Education, 2000
B.E.	Instrumentation and Control Engineering	Madras University, 2003
MBA	Master of Business Administration	Tamilnadu Open University, 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 “**NUCLEAR POWER PLANTS IN INDIA: ACHIEVING CLEAN AND GREEN ENERGY - REVIEW OF NUCLEAR POWER PLANTS IN INDIA**”, 4th International Conference Of Arts And Sciences - Cebu Normal University Osmeña Blvd. Cebu City, 6000 Philippines, 20-09-2022
- T.Sundar, “**RENEWABLE ENERGY SOURCE DESIGN STUDY**”, Progress In Mathematics Towards Industrial Applications PMTIA-2022 , Department of Mathematics, SRMIST, Ramapuram, Chennai - 600089, 28-10-2022

#### 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



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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](mailto:janani.rajaraman@kanchiuniv.ac.in)



## Education

<b>B.E.</b>	<b>Electronics and Instrumentation Engineering</b>	<b>Madras University, 2004</b>
<b>M.Tech</b>	Advanced Communication Systems	SASTRA University, 2006
<b>MBA</b>	Human Resources Management	Pondicherry University, 2014
<b>Ph.D</b>	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

- Simulation Studies of Inverted Decoupling Control Algorithm on a Non-square Pilot Plant Distillation Column – CLAWAR Association Ltd.
- Design of Fractional Order PI Controller for Multivariable Process – IETI Transactions on Engineering Research and Practice.

### International Conference

- Design of Fractional Order PI Controller for Multivariable Process in COMETA 2022 held during October 2022.
- Design and Analysis of various Computational Control Algorithms for a Multivariable Process -2023 IEEE 3rd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic control and Computer Engineering.

### 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. T. Lakshmibai  
Assistant Professor,

Area: Communication Systems  
Affiliation: Department of Electronics and Instrumentation Engineering,  
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Enathur, Kanchipuram.  
Email: tlakshmibai@kanchiuniv.ac.in



## Education

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

## Other Details:

### Course

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

### Research Interests

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

## Papers Presented

### International Conference

- T. Lakshmibai (2022), “Smart Memory Actuators (SMA) in Sensor Technology - A Brief Review”, in. National conference on Recent Trends on Renewable Energy Applications - NCRTRE-22, conducted at Adhiparasakthi College of Engineering, Kalavai, Tamil Nadu on 30-11-22.

### Publications in Journals

- T. Lakshmibai (2023), “Design and Implementation of IOT Based Garbage Collecting Robot”, in International Journal of Creative Research Thoughts (IJCRT), Volume 11, Issue 6/2320-2882 Published: June 13, 2023, pp e823 – 828.
- T. Lakshmibai (2023), “A Study of India’s Renewable Wind Energy and its Challenges”, in International Journal of Research Publication and Reviews (IJRPR)| ISSN 2582-7421, Volume 4, no 4, pp 5768-5771, 28 April 2023.

### 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



Mr. S. S. Saravana Kumar  
Assistant Professor,

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

### Education

<b>DECE</b>	<b>Diploma in Electronics and Communication Engineering</b>	<b>Board of Technical Education, 2005</b>
<b>B.E.</b>	Electronics Communication Engineering	Anna University, 2008
<b>M.Tech</b>	VLSI Design	Hindustan University, 2011
<b>Ph.D (Pursing)</b>	Wireless Networks	SCSVMV University

### Other Details:

#### Course

- Digital Electronics, Analog and Digital Communication, Signals & System, VLSI Design, Digital Signal Processing.

### Research Interests

- OFDMA in Wireless Networks, Wireless Communication

### Publications in Journals

- S.S. Saravana Kumar (2022), “Advanced Foot Step Power Generation System”, International Journal of Research Publication and Reviews
- S.S. Saravana Kumar (2022), “Automatic Floor Cleaning Robot Using Arduino”, International Journal of Research Publication and Reviews

### Other Professional Experiences

- Worked as Assistant Professor in GATES Institute of Technology from 2011 to 2012
- Member of Universal Association of Computer and Electronics Engineers
- IAENG – International Association of Engineers



Mrs. 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: dhiviyasuga@gmail.com,ksugapriya@kanchiuniv.ac.in.

### Education

<b>B.E.</b>	<b>Electronics and Communication Engineering</b>	<b>Anna University, 2005</b>
<b>M.Tech</b>	Applied Electronics	Dr. M.G.R University, 2008
<b>Ph.D (Pursing)</b>	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, S. Omkumar, "Tuning of dual frequency resonance analysis of circular and rectangular patch UWB antenna used for wireless sensor networks" International Journal of Health Sciences, Volume 6, Issue 1, pp. 12858- 12867, 2022.(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>B.E.</b>	<b>Electronics Communication Engineering</b>	<b>Anna University, 2010</b>
<b>M.E</b>	Electronics & Communication Engineering	SCSVMV Deemed to be University, 2014
<b>Ph.D</b>	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

- Titled “IR based inventive Braking system” presented on National Conference on Recent Trends in Renewable Energy Applications (NCRTRE'22) 30/11/2022, Dept of EEE, Adiparasakthi College of Engineering, Kalavai - 632506

### Publications in Journals

- N.C.A.Boovarahan (May 2023), “Car parking and Booking system based on IOT”, in International Journal of Research Publication and Reviews

### Other Professional Experiences

- IAENG – International Association of Engineers



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

### Education

<b>DECE</b>	<b>Diploma in Electronics and Communication Engineering</b>	<b>Board of Technical Education, 1992</b>
<b>B.E</b>	Electronics and Communication Engineering	SCSVMV Univeristy, 2012
<b>M.E.</b>	Embedded Systems and Technology	Anna University, 2014

### 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 ECE, Arulmigu Meenakshi Amman Engineering College during 1998-2010.





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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.



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Enathur, Kanchipuram - 631 561.



## Education

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



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.

### Education

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



## 9. STUDENTS PROFILE

### I 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 bazar, Telangana Pin code 500010	**Register_nu mber@kanchiu niv.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

### II 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_nu mber@kanchiu niv.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,se c-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



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**SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA**  
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### III 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

### IV YEAR - MECHATRONICS (2019-2023 BATCH)

S.No	Student Name/ Register number/ Date of Birth	Father Name	Permanent Address	E-mail id	Mobile Number
1	Aduri Hari Datta Raja Ram 11199H001 20/04/2002	Aduri Sree Rama Murthy	9/177/2 beside vivekananda telugu medium school indrapalem kakinada east godavari dist Andra pradesh		7330662359
2	Appikatla Vijay 11199H002 01/12/2001	Appikatla Pardhasaradhi	3-116, Avanigadda Krishna dist Vijayawada Anshra pradesh-521121	**Register_number@kanchiuniv.ac.in	7981668922
3	Avinash. T. V. S 11199H003 22/01/2002	P. Radha krishnan	4-a, Thilakan nagar 3rd streetEennore Thiruvallore dist-600057		9444249614



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**SRI CHANDRASEKHARENDR SARASWATHI VISWA MAHAVIDYALAYA  
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4	K. Baavesh Reddy 11199H004 18/08/2002	K. Pramod kumar reddy	13/07/794/4 Vinayaka nagar municipal office back side tataiah ginda Thirupathi	7093122267
5	Barath Kannaa. S 11199H005 08/02/2002	Sampath Kumar. S. V	No.30,ezhil nagar, Sedhukarai, Gudiyattam, Vellore dist, Tamil nadu. Pin-632 602	9677640145
6	Devanand. R 11199H006 29/01/2002	S. Ravi	5-158, Kagithapattarai Rajakulam post Lalapet Walajahpet taluk Vellore dist-632405	9944275034
7	Dineshkumar. K 11199H007 19/04/2001	Kanniyappan. A	109-161, Perumal koil street Panavaram post Mangalam, banavaram Vellore dist-632505	9787826475
8	Gangaraju Lohith Kumar 11199H008 13/04/2002	G. Maheshwar Raju	105-a, 3rd cross Keshavayana gunta Bairagipetta Tirupathi Andhra Pradesh- 517501	9398612751
9	Gundampati Sri Durga Rajeswari 11199H009 08/06/2001	Pradhuyumna Kumar	H no 87/07/ 5104 Nagireddy revenue Colony Kurnool 518001	9963876235 Father
10	Hari Ramanan. S 11199H010 10/08/2001	Sivakumar. V	22/8c Sri vinayaka apats Kannika colony 1st street Nanganallur Chennai	08825503634



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः  
(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिप्रमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

**SRI CHANDRASEKHARENDRASARASWATHI 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.



11	Jambula Jaya Surya Reddy 11199H011 06/03/2002	Jambula Venkata Krishna Reddy	14-03-122/2 Jayanagar Colony ballepally Khammam Telangana	9848408106
12	Ketagani Sai Kalyan 11199H012 06/08/2001	Ketagani Tata Rao	Flat no 504- kancharla Plaza opp veterinary Hospital kannuru Vijayawada -krishna dist Andhra Pradesh	9666369494
13	Manu Mahaadev. G 11199H013 16/12/2000	Ganesh. J	Flat no 5 santhosh Apartments dr Ramaswamy salai K K nagar Chennai 78	9442990070
14	Sakthivel. P 11199H015 10/01/2001	Punniyakoti. K	Plot no 100 Thiruveethipallam Vignesh nagar Kanchipuram 631502	9443118688
15	Shaik. Yaseen 11199H016 30/04/2002	Shaik Imthiyaz	Pallavi street raghava pet Sullurpet Nellore	8121546605
16	Shrinivas. A 11199H017 05/11/2001	Anand. S	2A Balaji nagar Extension reddyar nagar Korattur Chennai	940510376
17	Singamsetti Chaitanya Venkat 11199H018 17/02/2002	Singamesetti Srinivasa Rao	D-2-174 Undavalli Guntur AP	9704755326



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18	Srihari. B. R 11199H019 23/06/2001	Ramakrishnan. N	39, Sriram nagar Thndalam Walajapet-632401	8056726626
19	Thamarai Selvan. D 11199H020 20/09/2002	Dimitrao. K	no.26-70, Gangadhara Swamy madalaya street Pichanoor Gudiyattam Vellore-632602	7904932633
20	Vuppala Abhinav Kumar 11199H021 27/04/2002	Vuppala Ajay Kumar	H no 5/1/145 Sahebnagar Vanasthalipuram Hyderabad	7794093779
21	Venkat Achyuth Mantrala 11199H022 16/06/2002	Sai Venugopal Mantrala	D.no.2-435,road no.2, Balaji nagar, Bapanna dora colany, Ramanayya peta, Kakinada, E.G. Dist,	701374856





## 11. FINANCIAL REPORT

### Budget proposal for the financial year 2022-23

Name of the Dept: EIE

<u>Recurri</u> <u>ng</u>			Q1	Q2	Q3	Q4		
S.No	Expenditure head	Apr - Jun	Jul - Sep	Oct - Nov	Dec - Mar	Total	Annex	ure No.
1	Academic expenses	-	-	-	-	-	1	
2	Laboratory expenses	80,000	13,000	35,000	3,000	131,000	2	
3	Printing & Stationery	1,700	2,000	2,300	2,300	8,300	3	
4	Seminar & Meeting expenses	-	-	-	-	-	4	
5	Research activities	-	-	-	-	-	5	
6	Repairs & Maintenance	1,00,000	-	-	-	1,00,000	6	
7	Others (provide details in Annex)	-	-	-	-	-	7	
		181,700	15,000	37,300	5,300	2,39,300		



<u>CAPIT</u> <u>AL</u>		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	-	-	-	-	-	9
3	Furniture	-	-	-	-	-	10
4	Lab equipments	-	-	-	-	-	11
5	Others (details to be provided by dept)	-	-	-	-	-	12
		-	-	-	-	-	

#### INCOME / EXPENDITURE

#### Total income for the academic year 2022 -23

(Tuition fees amount paid by the students)

First year	60,000 * 02 * 2	2.4 Lakhs
Second year	60,000 * 02 * 4	4.8 Lakhs
Thrid year	60,000 * 02 * 2	2.4 Lakhs
Final year	60,000 * 02 * 22	26.4 Lakhs
Total Income		36 Lakhs

Expenditure for Annual salary of all EIE staff members = 51 Lakhs

HOD/EIE



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## 12. TIME TABLE

### ODD SEMESTER - TIME TABLE – 2022-23 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	EM	M3	S&A	OOPS		MTM	SANS	EDC
Tuesday	MTM	EM	OOPS	M3	S&A		EDC LAB		OOPS
Wednesday	OOPS	M3	MTM	EM	EDC		S&A	SOFT SKILLS	
Thursday	M3	MTM	EDC	EM	S&A		OOPS LAB		
Friday	EM	OOPS	MP LAB				M3	EDC	EDC LAB
Saturday	S&A	MTM	M3	EDC	LIB		OOPS	EM	S&A

S. CODE		SUBJECT	Hours Allotted	STAFF NAME	DEPT
BMTF183T10	M3	MATHEMATICS –III – PROBABILITY AND STATISTICS	6	Dr. N.Saradha	MATHS
BMTF183T30	EDC	ELECTRONIC DEVICES AND CIRCUITS	6	Mr. N. C. A. Boovarahan	EIE
BMTF183T40	EM	ENGINEERING MECHANICS	6	Mr. G. Venkatakoteswara Rao	MECHANICAL
BMTF183T50	MTM	MANUFACTURING TECHNOLOGY FOR MECHATRONICS	5	Dr. S.D. Sathish Kumar	MECHANICAL
BMTF183T60	S&A	SENSORS AND ACTUATORS	6	Dr. T. Sundar	EIE
BETF183T20	OOPS	OBJECT ORIENTED PROGRAMMING LANGUAGE USING C++	6	Dr.K. Anitha	ECE
BMTF183P80	EDC LAB	ELECTRONIC DEVICES AND CIRCUITS LAB	3	Mr. 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	sans	Sanskrit & Indian Culture	2	Dr.Sridharan	Sanskrit



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**ODD SEMESTER - TIME TABLE – 2022-23**

**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	PEID	ToM	CS	EMM			AI	PEID	FPS
Tuesday	AI	CS	FPC Lab				ToM	PEID	EMM
Wednesday	EMM	CS	FPS	ToM	AI		FPS	SOFT SKILLS	
Thursday	ToM	PEID	AI	CS	FPS		MD LAB		
Friday	ToM	AI	PEID Lab				FPS	PEID	EMM
Saturday	Allocated For Previous Semester Labs*						Allocated For Previous Semester Labs*		

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
BMTF185EA0	ToM	THEORY OF MACHINES	5	Dr. R. Vinayagamoorthy	MECHANICAL
BMTF185OEA	EMM	ELECTRICAL AND MECHANICAL MEASUREMENTS	5	Mrs. K. Sugapriya	EIE
BMTF185T10	CS	CONTROL SYSTEMS	4	Mrs. K. Saraswathi	EIE
BMTF185T20	AI	ANALYTICAL INSTRUMENTATION	5	Dr. T. Sundar	EIE
BMTF185T30	FPS	FLUID POWER SYSTEMS	5	Dr. S. Vijayabhaskar	MECHANICAL
BMTF185T40	PED	POWER ELECTRONICS AND INDUSTRIAL DRIVES	5	Dr. T. Lakshmibai	EIE
BMTF185P70	FPC LAB	FLUID POWER CONTROL LAB	3	Dr. S. Vijayabhaskar	MECHANICAL
BMTF185P80	PED LAB	POWER ELECTRONICS AND INDUSTRIAL DRIVES LAB	3	Dr. T. Lakshmibai	EIE
BMTF185P90	MF&AD	MACHINE DRWAING LAB	3	Dr. S.D. Sathish Kumar	MECHANICAL



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### ODD SEMESTER - TIME TABLE – 2022-23

#### IV 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	CIM	R&A	TQM	AI		BT/EST	CIM	Seminar		
Tuesday	R&A	TQM	CIM	AI	BT/EST		R & A Lab			
Wednesday	TQM	CIM	AI	R&A			AI	BT/EST		
Thursday	BT/EST	R&A	CIM	TQM			Project Phase -1			
Friday	Allocated For Previous Semester Labs*						Allocated For Previous Semester Labs*			
Saturday										

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
BMTF187T10	R&A	ROBOTICS AND AUTOMATION	5	Mr. S. S. Saravana Kumar	EIE
BMTF187EI0	ES	EMBEDDED SYSTEMS	5	Mrs. K. Sugapriya	EIE
BMTF187EL0	BT	BATTERY TECHNOLOGY	5	Dr. T. Lakshmibai	EIE
BMTF187EP0	TQM	TOTAL QUALITY MANAGEMENT	5	Mr. R. Balakumar	MECHANICAL
BMTF187ER0	CIM	COMPUTER INTEGRATED MANUFACTURING	5	Dr. D. Vijayan	MECHANICAL
BMTF187OEI	AI	AIRCRAFT INSTRUMENTATION	5	Mr. N. C. A. Boovarahan	EIE
BMTF187P60	R&A LAB	ROBOTICS AUTOMATION& PROCESS CONTROL LAB	3	Dr. T. Sundar	EIE
BMTF187P80	PROJECT	PROJECT WORK- PHASE 1	3	Mr. S. S. Saravana Kumar	EIE

Coordinator: S.S.Saravana Kumar & G.P.Sivakumar



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## EVEN SEMESTER - TIME TABLE – 2022-23

### II YEAR MECHATRONICS

HOUR TIME	1 9:10 to 10:00	2 10:00 to 10:50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	L U N C H B R E A K	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
<b>Monday</b>	SM	ME	TD	LIC	DE		SM & FM LAB		
<b>Tuesday</b>	ME	II	LIC	DE	SM		TD	II	DE
<b>Wednesday</b>	TD	ME	SM	LIC	II		DE	SOFT SKILLS	
<b>Thursday</b>	LIC	DE	TD	SM	ME		TE LAB		
<b>Friday</b>	SM	TD	ME	LIC	II		LIC LAB		

S. CODE	SUBJECT		Hours Allotted	STAFF HANDLING
BMTF184T10	SM	STRENGTH OF MATERIALS & FLUID MECHANICS	5	Dr. R. Vinayagamoorthi
BMTF184T20	II	INDUSTRIAL INSTRUMENTATION	4	Mr. G. Subramaniyan
BMTF184T30	ME	MATERIALS ENGINEERING	5	Dr. R. Ellappan
BMTF184T40	TD	THERMODYNAMICS	5	Dr. G.Venkata Koteswara Rao
BMTF184T50	LIC	LINEAR INTEGRATED CIRCUITS	5	Dr. K. Saraswathi
BMTF184T60	DE	DIGITAL ELECTRONICS	5	Dr. T. Sundar
BMTF184P70	LIC LAB	LIC AND DIGITAL ELECTRONICS LAB	3	Dr. S. S. Saravana Kumar
BMTF184P80	TE LAB	THERMAL ENGINEERING LAB	3	Dr. R. Ellappan
BMTF184P90	SM & FM LAB	STRENGTH OF MATERIALS AND FLUID MECHANICS LAB	3	Dr. P. Chengareddy



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**EVEN SEMESTER - TIME TABLE – 2022-23**

**III YEAR MECHATRONICS**

<b>HOOR TIME</b>	<b>1 9:10 to 10:00</b>	<b>2 10:00 to 10: 50</b>	<b>3 10:50 to 11:40</b>	<b>4 11:50 to 12:40</b>	<b>5 12:40 to 1:30</b>	<b>L U N C H B R E A K</b>	<b>6 2:20 to 3:10</b>	<b>7 3:10 to 4:00</b>	<b>8 4:00 to 4:50</b>
<b>Monday</b>	MPMC	BMI	POC	POM	PLC		CAD/CAM	BMI	POC
<b>Tuesday</b>	BMI	POC	MPMC	PLC	CAD/CAM		PLC LAB		
<b>Wednesday</b>	CAD/CAM	MPMC	PLC	POC	BMI		POM	SOFT SKILLS	
<b>Thursday</b>	POM	MPMC	MPMC LAB				POC	CAD/CAM	PLC
<b>Friday</b>	PLC	MPMC	CAD/CAM	BMI	POM		CAD/CAM LAB		

<b>S. CODE</b>	<b>SUBJECT</b>		<b>Hours Allotted</b>	<b>STAFF HANDLING</b>
BMTF186EG0	POC	PRINCIPLES OF COMMUNICATION	5	Dr. T. Lakshmibai
BMTF186OEE	BMI	BIOMEDICAL INSTRUMENTATION	5	Dr. T. Sundar
BMTF186T10	PLC	PLC & DATA ACQUISITION	4	Dr. K. Saraswathi
BMTF186T20	MPMC	MICROPROCESSOR AND MICROCONTROLLER	5	Dr. R. Janani
BMTF186T30	POM	PRINCIPLES OF MANAGEMENT & PROFESSIONAL ETHICS	5	Dr. N. C. A. Boovarahan
BMTF186T40	CAD/CAM	CAD/CAM	5	Dr. D. Vijayan
BMTF186P70	MPMC LAB	MICROPROCESSOR AND MICROCONTROLLER LAB	3	Dr. R. Janani
BMTF186P80	CAD/CAM LAB	CAD/CAM LAB	3	Dr. D. Vijayan
BMTF186P90	PLC LAB	PLC & VIRTUAL INSTRUMENTATION LAB	3	Dr. K. Saraswathi



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**EVEN SEMESTER - TIME TABLE – 2022-23**

**IV MECHATRONICS**

HOUR TIME	1 9:10 to 10:00	2 10:00 to 10:50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	L U N C H B R E A K	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
<b>Monday</b>	IOT		FMS	NANO			PROJECT PHASE -2		
<b>Tuesday</b>	NANO	IOT		FMS			PROJECT PHASE -2		
<b>Wednesday</b>	FMS		IOT	NANO			PROJECT PHASE -2		
<b>Thursday</b>	PROJECT PHASE -2								
<b>Friday</b>	PROJECT PHASE -2								

S. CODE	SUBJECT		Hours Allotted	STAFF HANDLING
BMTF188EX0	FMS	FLEXIBLE MANUFACTURING SYSTEMS	5	Dr. S. D. Sathish Kumar
BMTF188EA1	IOT	IOT IN AUTOMATION	5	Dr. N. C. A. Boovarahan
BMTF188OEM	NANO	NANO TECHNOLOGY	5	Dr. S. S. Saravana Kumar
BMTF188Z40	PP - 2	PROJECT PHASE 2	All Respective Staff	Dr. S. S. Saravana Kumar

**Coordinator: S.S.Saravana Kumar**





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## ODD SEMESTER - TIME TABLE – 2022-23

### LAB Schedule

HOUR TIME	1 9:10 to 10:00	2 10:00 to 10:50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30		6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
<b>Monday</b>									
<b>Tuesday</b>			DE LAB (CSE) Mrs.V.Komala and Mr.K.Vinayakamoorthy			<b>L U N C H B R E A K</b>	EDC LAB ( Mechatronics) Mrs.V.Komala		
<b>Wednesday</b>							R & A Lab( Mechatronics) Mr.G.Subramaniyan		
<b>Thursday</b>							OOPS LAB( Mechatronics) Mr.K.Vinayakamoorthy		
							DE LAB (CSE) Mrs.V.Komala and Mr.G.Subramaniyan		
<b>Friday</b>			PEID Lab( Mechatronics) Mr.K.Vinayakamoorthy						



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**EVEN SEMESTER - TIME TABLE – 2022-23**

**LAB Schedule**

HOUR TIME	1 9:10 to 10:00	2 10:00 to 10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
<b>Monday</b>						MPMC LAB(CSE) Mrs.V.Komala and Mr.K.Vinayakamoorthy		
<b>Tuesday</b>						PLC LAB( Mechatronics) Mrs.V.Komala		
<b>Wednesday</b>						MPMC LAB(CSE) Mr.K.Vinayakamoorthy		
<b>Thursday</b>			MPMC LAB( Mechatronics) Mrs.V.Komala					
<b>Friday</b>						LIC LAB( Mechatronics) Mr.K.Vinayakamoorthy		

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**Time Table Coordinator: S.S.Saravana Kumar**



**FACULTY INDIVIDUAL TIME TABLE ODD SEMESTER 2022-23**

**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	POC		CS						
Tuesday		CS		POC				POC	
Wednesday		CS		POC					
Thursday					CS		DE LAB		
Friday							POC		
Saturday									

CS - Control Systems (III – Mechatronics)

POC - Principles of Communication (III – IT)

DE Lab - Digital Electronics LAB (II – CSE)

**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			PLC						
Tuesday									
Wednesday	PLC								
Thursday									
Friday				PLC					
Saturday									

PLC - PLC and Data Acquisition System (IV– CSE)



**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				S&A			AI		S&A
Tuesday	AI						R & A Lab		
Wednesday					AI		S&A		
Thursday			AI		S&A				
Friday		AI							
Saturday									

S&A - Sensors & Actuators (II – Mechatronics)

AI - Analitical Instrumentation (III – Mechatronics)

R&A LAB - Robotics & Automation Process LAB (IV – Mechatronics)

PC LAB - Process Control LAB (EEE – PT)

**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	PEID		BT						PEID
Tuesday					BT		PEID		
Wednesday				BT					
Thursday	BT	PEID							
Friday			PEID LAB					PEID	
Saturday									

PEID - Power Electronics & Industrial Drives (III – Mechatronics)

BT - Battery Technology (IV – Mechatronics)

PEID LAB - PowerElectronics & Industrial Drives LAB (III – Mechatronics)



**Dr. G. P. Siva Kumar**

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			ES		OOPS				
Tuesday			OOPS		ES				
Wednesday	OOPS			ES					
Thursday	ES		OOPS				OOPS LAB		
Friday									OOPS
Saturday									

OOPS - Object Oriented Programming Language Using C++ (II – Mechatronics)

OOPS Lab - Object Oriented Programming Language Using C++ LAB

ES - Embedded Systems (IV – Mechatronics)

**Dr. S. S. Saravana Kumar**

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		R&A		DE					
Tuesday				R&A				DE	
Wednesday	DE							R&A	
Thursday		R&A		DE			Prj-Ph-1		
Friday									
Saturday									

R&A - Robotics & Automation (IV – Mechatronics)

DE - Digital Electronics (II – CSE)

Project Phase I - (IV – Mechatronics)



### 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				EMM					
Tuesday	DE	DE LAB							EMM
Wednesday	EMM		DE						
Thursday	DE								
Friday		DE			DE(1:45 - 2:20)				EMM
Saturday									

EMM - Electrical & Mechanical Measurements (III – Mechatronics)

DE Lab - Digital Electronics LAB (II – CSE)

DE - Digital Electronics & Microprocessor (II – MSc Physics)

### 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	EDC			AI					
Tuesday	AI				EDC		EDC LAB		
Wednesday			AI		EDC		AI		
Thursday		EDC							
Friday		EDC							
Saturday									

EDC - Electronics Devices & Circuits (II – Mechatronics)

EDC LAB - Electronics Devices & Circuits LAB (II – Mechatronics)

AI - Aircraft Instrumentation (IV – Mechatronics)



**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									
Tuesday							R&A LAB		
Wednesday									
Thursday							DE LAB		
Friday			Allocated For Previous Semester Labs*				Allocated For Previous Semester Labs*		
Saturday			Allocated For Previous Semester Labs*				Allocated For Previous Semester Labs*		

DE Lab - Digital Electronics LAB (II – CSE)

R&A LAB - Robotics & Automation Process LAB (IV – Mechatronics)

**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									
Tuesday			DE LAB				EDC LAB		
Wednesday									
Thursday							DE LAB		
Friday			Allocated For Previous Semester Labs*				Allocated For Previous Semester Labs*		
Saturday			Allocated For Previous Semester Labs*				Allocated For Previous Semester Labs*		

EDC LAB - Electronics Devices & Circuits LAB (II – Mechatronics)

DE Lab - Digital Electronics LAB (II – CSE)



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**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									
Tuesday			DE LAB						
Wednesday									
Thursday							OOPS LAB		
Friday			PEID LAB				Allocated For Previous Semester Labs*		
Saturday			Allocated For Previous Semester Labs*				Allocated For Previous Semester Labs*		

DE Lab - Digital Electronics LAB (II – CSE)

PEID LAB - PowerElectronics & Industrial Drives LAB (III – Mechatronics)





**FACULTY INDIVIDUAL TIME TABLE EVEN SEMESTER 2022-23**

**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				LIC	PLC				
Tuesday			LIC	PLC			PLC & VI LAB		
Wednesday			PLC	LIC					
Thursday	LIC								PLC
Friday	PLC			LIC					

PLC – Programmable Logic Controller (III – Mechatronics)

LIC – Linear Intergrated Circuit (II – Mechatronics)

PLC Lab - Programmable Logic Controller LAB (III – 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	MPMC								
Tuesday			MPMC						
Wednesday		MPMC							
Thursday		MPMC	MPMC LAB						
Friday		MPMC							

MPMC - Microprocessor and Microcontroller (III – Mechatronics)

MPMC LAB - Microprocessor and Microcontroller 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		BMI			DE			BMI	
Tuesday	BMI			DE					DE
Wednesday		Process Lab			BMI		DE		
Thursday		DE							
Friday				BMI					

BMI - Biomedical Instrumentation (III – Mechatronics)

DE - Digital Electronics (II – Mechatronics)

PC LAB - Process Control LAB (IV - EEE)

**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			POC		BE ( 1.00 TO 1.45)				POC
Tuesday		POC		BE			MPMC LAB		
Wednesday	BE			POC					
Thursday							POC		
Friday			BE	BE					

POC - Principles of Communication (III – Mechatronics)

BE - Basic Electronics (I – MSc Physics)

MPMC Lab - Microprocessor & Microcontrollers LAB (II – CSE)



**Dr. S. S. Saravana Kumar**

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		ES		NANO					
Tuesday	NANO								
Wednesday				NANO			ES		
Thursday		ES							
Friday	ES						LIC & DE LAB		

NANO - Nano Technology (IV – Mechatronics)

ES - Embedded Systems (II – CSE)

LIC & DE Lab - LIC & Digital Electronics LAB (II – Mechatronics)

Project Phase – II (IV – Mechatronics)

**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	MPMC	DE	DE						
Tuesday		MPMC	DE						
Wednesday			MPMC						
Thursday		DE							
Friday	DE		MPMC LAB					MPMC	

DE - Digital Electronics (III – BSc Physics)

MPMC - Microprocessor & Microcontrollers (II – CSE)

MPMC Lab - Microprocessor & Microcontrollers LAB (II – CSE)



**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	IOT			POM	BEE				
Tuesday		IOT							BEE
Wednesday		BEE	IOT				POM		
Thursday	POM			BEE					
Friday	BEE				POM				

IOT - Internet of Things (IV – Mechatronics)

POM - Principles of Management & Professional Ethics (III – Mechatronics)

BEE - Basic Electronics Engineering (II – Mechanical)

**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									
Tuesday		II						II	
Wednesday		PC LAB (EEE)			II				
Thursday									
Friday					II				

II - Industrial Instrumentation (II – Mechatronics)

PC LAB - Process Control LAB (IV – EEE)



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							MPMC LAB (CSE)		
Tuesday							PLC LAB		
Wednesday									
Thursday			MPMC LAB						
Friday									

PLC - PLC LAB (III – Mechatronics)

MPMC Lab - Microprocessor & Microcontrollers LAB (II – CSE)

MPMC Lab - Microprocessor & Microcontrollers LAB (III – 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							MPMC LAB		
Tuesday							MPMC LAB		
Wednesday									
Thursday									
Friday							LIC & DE LAB		

MPMC Lab - Microprocessor & Microcontrollers LAB (II – CSE)

LIC & DE - LIC & DE LAB (II – Mechatronics)



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**13.SEMINARS/WORKSHOPS/CONFERENCES/SYMPOSIUMS/TRAIN  
INGPROGRAMS ORGANIZED  
DEPARTMENTAL ACTIVITIES**

S.NO	Name of the Department	Programme Organized	Date
1	EIE	Engineers Day 2022	17.09.2022
2	EIE	ROBOTICS Workshop	15.10.2022
3	EIE	Seminar- Recent Trends in Industrial Automation and Control System	05.11.2022
4	EIE	Martyr's Day Function	30-01-2023



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.



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## DEPARTMENTAL MEETINGS

SL.NO	MEETINGS	DATE
1	IV Year Mechatronics Class committee meeting	08/05/2023
2	III Year Mechatronics Class committee meeting	04/05/2023
3	II Year Mechatronics Class committee meeting	05/05/2023
4	Alumni Meet( For Naac )	07.04.2023
5	Doctral Committee Meeting III Mrs.K.Saraswathi	6/10/2022
6	Viva-Voce (N.C.A. Boovarahan)	8/10/2022
7	Viva-Voce (S.S.Saravana kumar)	19/11/2022
8	Viva-Voce (Mrs.K.Saraswathi)	16/02/2023

## RESEARCH COLLOQUIUM

S.NO	NAME	DATE	TITLE
1	Mrs.K.Saraswathi	30/10/2022	Tuning of Decentralized PID controllers for MIMO system





## 14. PROJECT DETAILS

### ODD SEMESTER (2022-2023) PROJECT PHASE -1

S.No	Register Number	Name of the Student	Title of the Project	Project Type	Name of the Guide
1	11199H001	Aduri Hari Datta Raja Ram	Delivery Drone	Hardware	Dr.S S Saravana Kumar & Dr.T Sundar
2	11199H003	Avinash T V S			
3	11199H009	Gundampati Sri Durga Rajeswari			
4	11199H011	Jambula Jaya Surya Reddy			
5	11199H016	Shaik Yaseen			
6	11199H021	Vuppala Abhinav Kumar			
7	11199H022	Venkat Achyuth Mantrala			
8	11199H006	Devanand R	Arduino Based Scara Robot	Hardware	Dr.K. Sugapriya
9	11199H015	Sakthivel P			
10	11199H019	Srihari B R			
11	11199H002	Appikatla Vijay	IOT Based Garbage Collection Robot	Hardware	Dr.T. Lakshmibai
12	11199H004	K Baavesh Reddy			



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13	11199H008	Gangaraju Lohith Kumar			
14	11199H012	Ketagani Sai Kalyan			
15	11199H018	Singamsetti Chaitanya Venkat			
16	11199H023	Gurram Sai Sandeep			
17	11199H005	Barath Kannaa S	Water Level Managementsystem UsingIot	Hardware	Dr.K. Saraswathi & Dr.N C A Boovarahan
18	11199H007	Dineshkumar K			
19	11199H010	Hari Ramanan S			
20	11199H013	Manu Mahaadev G			
21	11199H017	Shrinivas A			
22	11199H020	Thamarai Selvan D			

## PROJECT PHASE -1

### ABSTRACT DETAILS

Name of the Student(s)	Abstract
Aduri Hari Datta Raja Ram, Avinash T V S, Gundampati Sri Durga Rajeswari, Jambula Jaya	Unmanned Aerial Vehicles, or drones, are a topic of interest to many academic and industrial research organisations. They find applications in several fields, ranging from military functions to civilian functions. Consequently, the UAVs are expected to perform a wide range of missions, which necessitates a certain level of autonomy. An autonomous UAV relies on an efficient control architecture to perform various tasks and make appropriate decisions. In



<p>Surya Reddy, Shaik Yaseen, Vuppala Abhinav Kumar, Venkat Achyuth Mantrala</p>	<p>robotics, control architectures are categorized under six classifications, as we list: deliberative, reactive, hybrid, behaviour, hybrid behaviour, and lastly subsumption architecture. Through this paper, we introduce a short review on a particular type of UAV called Hexacopter or Hexarotor, in which we discuss the items that compose the hexarotor from the very fundamental (framework, sensors ...) to the most elaborated parts (modelling, control...). The document covers the flight mechanism, the avionics sensors, the dynamic modelling, and the various control techniques used on a hexacopter. The vision system, the different localisation, and navigation techniques are also explored. At last, but not at least, the focus is directed toward the investigation of the robotics control architectures. As per analysts, the operating costs for a drone delivery service are 40% to 70% lower than a vehicle delivery service model. Additionally, the COVID-19 pandemic has further accelerated the requirement to look for alternative, safe, and contactless delivery models. This has led to an upsurge in the global demand for drone delivery services.</p> <p>Drones were initially introduced as military/police equipment and were used primarily for surveillance and monitoring against any targeted attacks. The application and usage of this technology have since evolved to include various other labor-intensive and complex tasks across industries. These include identifying defects in oil/gas pipelines, checking the health of crops, identifying hotspots in fire situations, surveillance for mining and construction activities, cinematography, delivering packages, etc.</p>
<p>Devanand R Sakthivel P Srihari B R</p>	<p>The Robots are autonomous systems which can perform desired tasks in unstructured environments without continuous human guidance. Many kinds of robots are autonomous to some degree. Different robots can be autonomous in different ways the daunting task is delays and interruptions in robotic communication system. Control of the robotic arm has been achieved successfully by using servo motors. The micro-controllers implement inverse kinematics algorithms and position control is achieved through Stepper motors. The stepper motors are actuated using the internal stepper motor drivers and servomotors are controlled directly by micro controller. The robotic arm also has the provision of being controlled. The end effector is a two-finger gripper.</p>



<p>Appikatla Vijay K Baavesh Reddy Gangaraju Lohith Kumar Ketagani Sai Kalyan Singamsetti Chaitanya Venkat Gurram Sai Sandeep</p>	<p>The world today faces a major garbage crisis - the product of rapid economic growth, overcrowding, poor urban planning, corrosive corruption and political interruption. The present tried and tested methods of garbage collection have so far been proven ineffective. And the world today is looking for a smarter way to overcome the garbage collection problem.</p> <p>This project presents the Robotic Garbage Collection for footpaths using an Arduinomicrocontroller. The robot's movement is controlled by Arduino programming. In the proposed method, the robot is designed to collect garbage at footpaths, public places (parks, schools and colleges), and beaches. The robot is built in such a way that, at the start, it will move in a random path and when it encounters an obstacle, it will react depending on the conditions written in the program.</p> <p>The bot proceeds with further motion according to the program instructions to pick up the garbage, new advanced services based on the interplay between robots and things, are being conceived in assisting humans. As robots are used to help mankind in various environments, the robots and the internet of things are combined to achieve more than people think.</p>
<p>Barath Kannaa S Dineshkumar K Hari Ramanan S Manu Mahaadev G Shrinivas A Thamarai Selvan D</p>	<p>Water Level Management System Using IOT is the practice of planning, producing, distributing, and managing the water resources. Water cycle needs to be managed efficiently to utilize the resource completely without wasting it. Water scarcity is a pressing issue in countries like India, particularly in the southern states of Tamil Nadu and Andhra Pradesh. These states are facing an escalating water crisis, with over 50% of the population experiencing water scarcity. The demand for water is projected to rise further due to population growth, urbanization, and industrialization. This scarcity is compounded by the issue of water wastage during transmission, which exacerbates the problem. Addressing these challenges requires innovative solutions that emphasize sustainable water management practices and automation in industries and commercial buildings.</p> <p>In response to these pressing challenges, we propose the development of an advanced water level management system specifically designed to monitor and regulate water consumption in apartments and various commercial buildings. In this project, we propose the development of a sophisticated water level management system with a web dash board facility, using advanced technologies such as HTML, CSS, and JavaScript. Through the deployment of sensors, the system will provide real-time and accurate monitoring of water levels. The micro controller will play a crucial role in intelligently processing the sensor data, enabling it to make informed decisions and facilitate optimal water consumption regulation.</p>



**EVEN SEMESTER (2022-2023)**

**PROJECT PHASE – II**

S.No	Register Number	Name of the Student	Title of the Project	Project Type	Name of the Guide
1	11199H001	Aduri Hari Datta Raja Ram	Delivery Drone	Hardware	Dr.S S Saravana Kumar & Dr.T Sundar
2	11199H003	Avinash T V S			
3	11199H009	Gundampati Sri Durga Rajeswari			
4	11199H011	Jambula Jaya Surya Reddy			
5	11199H016	Shaik Yaseen			
6	11199H021	Vuppala Abhinav Kumar			
7	11199H022	Venkat Achyuth Mantrala			
8	11199H006	Devanand R	Arduino Based Scara Robot	Hardware	Dr.K. Sugapriya
9	11199H015	Sakthivel P			
10	11199H019	Srihari B R			
11	11199H002	Appikatla Vijay	3D Printer Design Using Fdm Technique	Hardware	Dr.T. Lakshmibai
12	11199H004	K Baavesh Reddy			



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13	11199H008	Gangaraju Lohith Kumar			
14	11199H012	Ketagani Sai Kalyan			
15	11199H018	Singamsetti Chaitanya Venkat			
16	11199H023	Gurram Sai Sandeep			
17	11199H005	Barath Kannaa S	Water Level Managementsystem UsingIoT	Hardware	Dr.K. Saraswathi & Dr.N C A Boovarahan
18	11199H007	Dineshkumar K			
19	11199H010	Hari Ramanan S			
20	11199H013	Manu Mahaadev G			
21	11199H017	Shrinivas A			
22	11199H020	Thamarai Selvan D			



## PROJECT PHASE –II

### ABSTRACT DETAILS

Name of the Student(s)	Abstract
<p>Aduri Hari Datta Raja Ram, Avinash T V S, Gundampati Sri Durga Rajeswari, Jambula Jaya Surya Reddy, Shaik Yaseen, Vuppala Abhinav Kumar, Venkat Achyuth Mantrala</p>	<p>Unmanned Aerial Vehicles, or drones, are a topic of interest to many academic and industrial research organisations. They find applications in several fields, ranging from military functions to civilian functions. Consequently, the UAVs are expected to perform a wide range of missions, which necessitates a certain level of autonomy. An autonomous UAV relies on an efficient control architecture to perform various tasks and make appropriate decisions. In robotics, control architectures are categorized under six classifications, as we list: deliberative, reactive, hybrid, behaviour, hybrid behaviour, and lastly subsumption architecture. Through this paper, we introduce a short review on a particular type of UAV called Hexacopter or Hexarotor, in which we discuss the items that compose the hexarotor from the very fundamental (framework, sensors ...) to the most elaborated parts (modelling, control...). The document covers the flight mechanism, the avionics sensors, the dynamic modelling, and the various control techniques used on a hexacopter. The vision system, the different localisation, and navigation techniques are also explored. At last, but not at least, the focus is directed toward the investigation of the robotics control architectures. As per analysts, the operating costs for a drone delivery service are 40% to 70% lower than a vehicle delivery service model. Additionally, the COVID-19 pandemic has further accelerated the requirement to look for alternative, safe, and contactless delivery models. This has led to an upsurge in the global demand for drone delivery services.</p> <p>Drones were initially introduced as military/police equipment and were used primarily for surveillance and monitoring against any targeted attacks. The application and usage of this technology have since evolved to include various other labor-intensive and complex tasks across industries. These include identifying defects in oil/gas pipelines, checking the health of crops, identifying hotspots in fire situations, surveillance for mining and construction activities, cinematography, delivering packages, etc.</p>
<p>Devanand R Sakthivel P Srihari B R</p>	<p>The Robots are autonomous systems which can perform desired tasks in unstructured environments without continuous human guidance. Many kinds of robots are autonomous to some degree. Different robots can be autonomous in different ways the daunting task is delays and interruptions in robotic communication system. Control of the robotic arm has been achieved successfully by using servo motors. The micro-controllers implement inverse kinematics algorithms and position control is achieved through Stepper motors. The stepper motors are actuated using the internal stepper motor drivers and servo motors are controlled directly by micro controller. The robotic arm also has the provision of being controlled. The end effector is a two-finger gripper</p>



<p>Appikatla Vijay K Baavesh Reddy Gangaraju Lohith Kumar Ketagani Sai Kalyan Singamsetti Chaitanya Venkat Gurram Sai Sandeep</p>	<p>The 3D printer is a cutting-edge device that employs additive manufacturing technology to create three-dimensional objects. The printer operates by using a digital model, which is sliced into thin layers that are printed one on top of the other to form the final object. This 3D printer is capable of printing objects with high precision, accuracy and detail, making it suitable for a variety of applications, including prototyping, product development, and small-scale manufacturing.</p> <p>The 3D printer works by using a variety of components, including a print bed, extruder, and control system. The print bed is where the object is printed and is usually made of glass, aluminium, or other materials that provide a flat surface. The extruder is responsible for melting the printing material, typically a thermoplastic filament, and extruding it through a nozzle onto the print bed. The control system, usually a computer or a microcontroller, directs the movement of the extruder and the print bed to create the object layer by layer.</p> <p>The 3D printer is a versatile and powerful tool that can be used to produce a wide range of objects quickly and efficiently. Its ability to create complex shapes and geometries with high precision and accuracy has made it an essential tool for prototyping and product development. Additionally, the 3D printer is low cost and ease of use have made it accessible to hobbyists and makers, allowing them to experiment with 3D printing technology and bring their ideas to life.</p>
<p>Barath Kannaa S Dineshkumar K Hari Ramanan S Manu Mahaadev G Shrinivas A Thamarai Selvan D</p>	<p>Water Level Management System Using IOT is the practice of planning, producing, distributing, and managing the water resources. Water cycle needs to be managed efficiently to utilize the resource completely without wasting it. Water scarcity is a pressing issue in countries like India, particularly in the southern states of Tamil Nadu and Andhra Pradesh. These states are facing an escalating water crisis, with over 50% of the population experiencing water scarcity. The demand for water is projected to rise further due to population growth, urbanization, and industrialization. This scarcity is compounded by the issue of water wastage during transmission, which exacerbates the problem. Addressing these challenges requires innovative solutions that emphasize sustainable water management practices and automation in industries and commercial buildings.</p> <p>In response to these pressing challenges, we propose the development of an advanced water level management system specifically designed to monitor and regulate water consumption in apartments and various commercial buildings. In this project, we propose the development of a sophisticated water level management system with a web dashboard facility, using advanced technologies such as HTML, CSS, and JavaScript. Through the deployment of sensors, the system will provide real-time and accurate monitoring of water</p>





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	<p>levels. The micro controller will play a crucialrole in intelligently processing the sensor data, enabling it to make informed decisions and facilitate optimal water consumption regulation.</p>
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## 15. PUBLICATIONS

### JOURNAL (2022-2023)

SL No	Name of the Faculty	Title of the Article	Journal Details	Wos/Sci/Scopus/Ugc Carelist/Peer Reviewed
1	K.Saraswathi and S.Vijayaraghavan	Fuzzy Logic Controller Design And Simulation For Industrial Application	International Journal of Creative Research Thoughts (IJCRT)	UGC
		Tuning of PID Controller Using Hybridized Modified Firefly-Chaos Algorithm in Industrialized Polymerization Reactors	International Journal of Intelligent Systems And Applications In Engineering	SCOPUS
2	Dr.T.Lakshmbai	A Study of India's Renewable Wind Energy and its Challenges	International Journal of Research Publication and Reviews (IJRPR)	PEER Reviewed
3	Dr.T.Lakshmbai	Design and Implementation of IOT Based Garbage Collecting Robot	International Journal of Creative Research Thoughts (IJCRT)	UGC
4	N C A Boovarahan	Car parking and Booking system based on IOT	International Journal of Research Publication and Reviews (IJRPR)	PEER Reviewed
3	K.Sugapriya and S.Omkumar	Textile UWB 5G Antenna for Human Blood Clot Measurement	Intelligent Automation & Soft Computing	SCIE
		Triple band U-Shaped slot UWB Antenna as a Wireless Sensor for Communication	IEEE Xplore	Scopus



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4	Janani R	Simulation Studies of Inverted Decoupling Control Algorithm on a non-square Pilot Plant Distillation Column	CLAWAR Association Ltd	Scopus
		Design of Fractional Order PI Controller for Multivariable Process	IETI Transactions on Engineering Research and Practice	NIL

#### NATIONAL CONFERENCE (2022-2023)

S.No	Name of the Faculty	Title of the Article	Conference Details
1	Dr T Lakshmibai	Smart Memory Actuators (SMA) in Sensor Technology - A Brief Review	National Conference on Recent Trends in Renewable Energy Applications (NCRTRE'22), Dept of EEE, Adiparasakthi College of Engineering, Kalavai - 632506
2	Dr N C A Boovarahan	IR based inventive Braking system	National Conference on Recent Trends in Renewable Energy Applications (NCRTRE'22), Dept of EEE, Adiparasakthi College of Engineering, Kalavai - 632506



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### INTERNATIONAL CONFERENCE (2022-2023)

S.No	Name of the Faculty	Title of the Article	Conference Details
1	Dr.T.Sundar	Nuclear Power Plants In India: Achieving Clean And Green Energy - Review Of Nuclear Power Plants In India	4Th International Conference Of Arts And Sciences - Cebu Normal University Osmeña Blvd. Cebu City, 6000 Philippines
2	Dr.T.Sundar	Renewable Energy Source Design Study	Progress In Mathematics Towards Industrial Applications Pmtia-2022 , Department Of Mathematics, Srmist, Ramapuram, Chennai - 600089



## 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



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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



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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



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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





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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



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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



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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



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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



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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	
6	Voltmeter (0-3)V	08	
	(0-10)V	03	
	(0-30)V	10	
	Voltmeter Total	21	
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 & Dr.S.S.Saravana Kumar

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 Lvdtd(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



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## 18. GUEST LECTURES AND VISITING FACULTY DETAILS

S.No.	Name of the Industrial expert visited & Address	Date
1	Mr.Mohan Shankar, R & D Engineer and Trainer, PanTech E-learning Pvt Limited, Chennai.	15.10.2022
2	Arun Jebabooshan. T., Technical Head, Sree Technologies, A Franchisee of Prolific Systems; Technologies Pvt. Ltd., Chennai.	05.11.2022



## 19. STUDENT ACTIVITIES

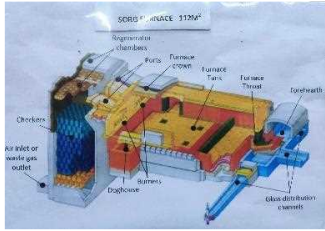
### 1. Training Programme organized for students

S.No.	Date	Name of the programme	Report
		NIL	

### 2. Details of INDUSTRIAL VISITS






S.No.	Date	Company and Place	Report
	17/07/2022	AGI Glaspac Motinagar, Hyderabad, Telangana  (Students Visited - Jambula Jaya Surya Reddy, Vuppala Abhinav Kumar and Shaik.Yaseen)	<p>AGI glaspac manufacture industry (better known as AGI) which is established in the year 1972, are engaged in the manufacture of high-quality glass containers for the packaging needs of Food, Pharmaceuticals, Soft Drinks, Spirits, Beer, Wine, and other.</p> <p>AGI has positioned itself in two states of the art manufacturing facilities, one in Hyderabad and the other at Bhongir (Telangana) both strategically located in South – Central India, where key raw materials are available in abundance and the shipping of finish goods by road, rail as well as by sea is extremely cost-effective. With Hyderabad and Bhongir facilities put together, AGI melts 1600 tonnes of glass per day.</p> <p>Learned how glass bottles are prepared from the raw materials (like silica sand, soda ash, dolomite, limestone, and broken pieces of glass). These ingredients are mixed in the right proportion, and the entire batch is flown into a furnace heated to 1500 degrees Celsius.</p> <p>The molten material from the furnace</p>



			<p>flows into the float bath, which consists of a mirror-like surface made from molten tin. This material enters the bath at around 1500 degrees Celsius and leaves the bath at around 650 degrees Celsius. Its shape at the exit is like a solid ribbon.</p> <p>After that, if one is producing reflective glass surfaces that help keep indoors cooler, then coating procedures are followed in which either a hard coat or a soft coat is applied on the surface of the cooled ribbon at high temperatures. Next, a process called annealing is done to remove the internal stresses built up in the glass. This process allows the glass ribbon to pass through a layer that eliminates any pressure on the glass surface and gradually cools it to give it its final hardened form. This makes it easier to convert the glass and shape it accordingly.</p> <p>The industrial visit gives a lot of information about various aspects of production, marketing, and the operation of a company. The dissemination of knowledge by the support organisation also gives a clear scope to the transactional analysis of the industry.</p> 
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### 3. Details of In-Plant Training

S.No.	Date	Name of the student	Duration	Place / Industry
1	25/07/2022 to 08/08/2022	Jaya Surya Reddy Jambula	15 days	Bharath Heavy Electricals Limited (BHEL), Hyderabad



2	25/07/2022 to 08/08/2022	Vuppala Abhinav Kumar	15 days	Bharath Heavy Electricals Limited (BHEL), Hyderabad
3	25/07/2022 to 08/08/2022	Shaik.Yaseen	15 days	Bharath Heavy Electricals Limited (BHEL), Hyderabad

4. Details of Internship

S.No.	Date	Name of the student	Duration	Place / Industry
1	22/06/2022 to 22/07/2022	Aduri Hari Datta Raja Ram	30 days	Online/Pantech E-learning, Chennai
2	30/05/2022 to 10.08.2022	Manu Mahaadev G	3 Months	Netz Technology Pvt Ltd, Chennai
3	20/06/2022 to 20/09/2022	P. Sakthivel	3 Months	WABCO INDIA Limited Ambattur, Chennai.
4	06/06/2022 to 02/07/2022	Devnand R	1Month	Ultramarine Pigments Ltd, Ranipet
5	04/04/2022 to 09/07/2022	Sri Durga Rajeswari	3 Months	Social Tek AI and MI Business Solutions, Kphb colony, Hyderabad
6	06/06/2022 to 05/07/2022	K. Sai Kalyan	30 days	Online/Pantech E-learning, Chennai.
7	20/06/2022 to 20/07/2022	Sri Hari B R	1 month	SAME DUETZ FAHR INDIA (P) LTD, Ranipet.
8	06/06/2022 to 05/07/2022	K. Baavesh Reddy	30 days	Online/Pantech Solutions, Chennai.
9	06/06/2022 to 5/07/2022	S Chaitanya Venkat	30 days	Online/Pantech Solutions, Chennai.
10	24/07/2022 to 23/08/2023 (Ongoing)	Shaik. Yaseen	30 days	Online/Pantech Solutions, Chennai.



11	01/07/2022 to 17/08/2022 (Ongoing)	Hari Ramanan S	30 days	Digi vet care, Vrindavan, Mathura, U.P.
12	06/06/2022 to 05/07/2022	G.Lohith Kumar	30 days	Online/Pantech E-learning, Chennai

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

Sl. No.	Date	Name of the students	Nature of the events	Institution /Place
1.	16/07/2022	Sai Phani Chandra Chittaluri	Devops and its emerging applications	Guvi, IITM Research Park, Chennai
2.	11/10/2022	P Anantha Padmanabban	Robotics	Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya
3.	11/10/2022	Chittaluri Sai Phanichandra	Robotics Workshop.	SCSVMV,Enathur
4.	19/11/2022	Chittaluri Sai Phanichandra	NASA- Photography challenge of space.	NASA,Online
5.	05/01/2023	Chittaluri Sai Phanichandra	Evolution of data science with time.	Skill Lync, Online
6.	06/01/2023	Chittaluri Sai Phanichandra	Perception- How the Autonomous vehicles see the world.	Skill Lync, Online
7.	24/01/2023	Chittaluri Sai Phanichandra	World education fair 2023.	Intenshala Trainings
8.	15/02/2023	Chittaluri Sai Phanichandra	Capturethe flag(Program mimng) shastra event(2023)	IIT Madras, Online
9.	18/02/2023	Chittaluri Sai Phanichandra	International- Level	Sathyabama institution of science and technology



			Virtualsmartp hone competition.	
10.	21/02/2023	Chittaluri Sai Phanichandra	PCB Design	Pantech e learning, Online.
11.	25/02/2023	Chittaluri Sai Phanichandra	Over View Of Remote Sensing technology.	ISRO, Online
12.	12/03/2023	Chittaluri Sai Phanichandra	Driverless Smart Car ADAS & ROS.	Pantech e learning, Online

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
		NIL			

7. Details of placement activities

S.No.	Month & Year	Name of the Company	No. of student selected	Minimum - Maximum Package
1.	November 2022 to April 2023	Motherson automotive NVH India BGR NEO limited Jm fritech T.V.S.Avinash	8	1,44,000 to 2,50,000 /Annum



## 20. STUDENS FEEDBACK



# FEED BACK 2022-23



ODD SEM

EIE DEPT



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### Student Feedback Staff wise Summary (Odd Sem2022-23)

S.no	Prefix	Name	Sem	Subject_Name	Excelent	Very Good	Good	Average	Poor	NoOf Stud	Point	Score
1	Dr.	K.SARASWATHI	3	Digital Electronics Lab	10	4	3	1	0	18	154	85.56
2	Dr.	K.SARASWATHI	5	CONTROL SYSTEMS	0	1	0	0	0	1	8	80.00
3	Dr.	K.SARASWATHI	5	Principle of Communication	0	1	0	0	0	1	8	80.00
4	Dr.	K.SARASWATHI	5	CONTROL SYSTEMS	1	0	0	0	0	1	10	100.00
5	Dr.	JANANI R	7	OPEN ELECTIVE-II PLC AND DATA ACQUISITION SYSTEM	2	0	0	0	0	2	20	100.00
6	Dr.	JANANI R	7	OPEN ELECTIVE-I PLC AND DATA ACQUISITION SYSTEM	10	4	0	0	0	14	132	94.29
7	Dr.	SUNDAR.T	3	SENSORS AND ACTUATORS	4	0	0	0	0	4	40	100.00
8	Dr.	SUNDAR.T	5	ANALYTICAL INSTRUMENTATION	1	0	0	0	0	1	10	100.00
9	Dr.	SUNDAR.T	5	ANALYTICAL INSTRUMENTATION	0	1	0	0	0	1	8	80.00



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10	Dr.	SUNDAR.T	7	ROBOTICS AUTOMATION& PROCESS CONTROL LAB	8	2	3	0	0	13	114	87.69
11	Dr.	SUNDAR.T	7	PROCESS CONTROL LAB	17	4	6	0	0	27	238	88.15
12	Dr.	T.LAKSHMIBAI	5	POWER ELECTRONICS AND INDUSTRIAL DRIVES	1	0	0	0	0	1	10	100.00
13	Dr.	T.LAKSHMIBAI	5	POWER ELECTRONICS AND INDUSTRIAL DRIVES	1	0	0	0	0	1	10	100.00
14	Dr.	T.LAKSHMIBAI	5	POWER ELECTRONICS AND INDUSTRIAL DRIVES LAB	1	0	0	0	0	1	10	100.00
15	Dr.	T.LAKSHMIBAI	5	POWER ELECTRONICS AND INDUSTRIAL DRIVES LAB	1	0	0	0	0	1	10	100.00
16	Dr.	T.LAKSHMIBAI	7	BATTERY TECHNOLOGY	8	1	3	1	0	13	110	84.62
17	Dr.	SARAVANA KUMAR.S.S	3	Digital Electronics	23	7	9	1	0	40	344	86.00
18	Dr.	SARAVANA KUMAR.S.S	3	Digital Electronics	0	1	2	0	0	3	20	66.67
19	Dr.	SARAVANA KUMAR.S.S	3	Digital Electronics Lab	14	2	5	1	0	22	190	86.36
20	Dr.	SARAVANA KUMAR.S.S	3	Digital Electronics Lab	0	2	1	0	0	3	22	73.33



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21	Dr.	SARAVANA KUMAR.S.S	7	ROBOTICS AND AUTOMATION	9	1	2	1	0	13	114	87.69
22	Dr.	SARAVANA KUMAR.S.S	7	PROJECT WORK- PHASE 1	10	1	1	1	0	13	118	90.77
23	Dr.	K.SUGAPRIYA	3	Digital electronics and microprocessors	1	0	0	0	0	1	10	100.00
24	Dr.	K.SUGAPRIYA	5	ELECTRICAL AND MECHANICAL MEASUREMENTS	1	0	0	0	0	1	10	100.00
25	Dr.	K.SUGAPRIYA	5	ELECTRICAL AND MECHANICAL MEASUREMENTS	0	1	0	0	0	1	8	80.00
26	Dr.	K.SUGAPRIYA	7	EMBEDDED SYSTEMS	7	3	3	0	0	13	112	86.15
27	Dr.	BOOVARAHAN	3	ELECTRONIC DEVICES AND CIRCUITS	4	0	0	0	0	4	40	100.00
28	Dr.	BOOVARAHAN	3	ELECTRONIC DEVICES AND CIRCUITS LAB	4	0	0	0	0	4	40	100.00
29	Dr.	BOOVARAHAN	7	AIRCRAFT INSTRUMENTATION	8	3	2	0	0	13	116	89.23





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

<u>S.No</u>	<u>Name</u>	<u>Sem</u>	<u>Subject Name</u>	No of Students	%
1	Dr.P.Bindhu	1	English	2	100
2	Dr.R.Mageswari	1	Mathematics I (Calculus & Differential Equations)	2	70
3	Dr.M.Sundarrajan	1	Engineering Physics	2	100
4	Mr.M.Thirunavukkarasu	1	Programming for Problem Solving	2	70
5	Dr.M.Sundarrajan	1	Physics Lab	2	90
6	Mr.M.Thirunavukkarasu	1	Programming for Problem Solving	2	80
7	Dr.R. Balakumar	1	Workshop/Manufacturing Practices	2	80



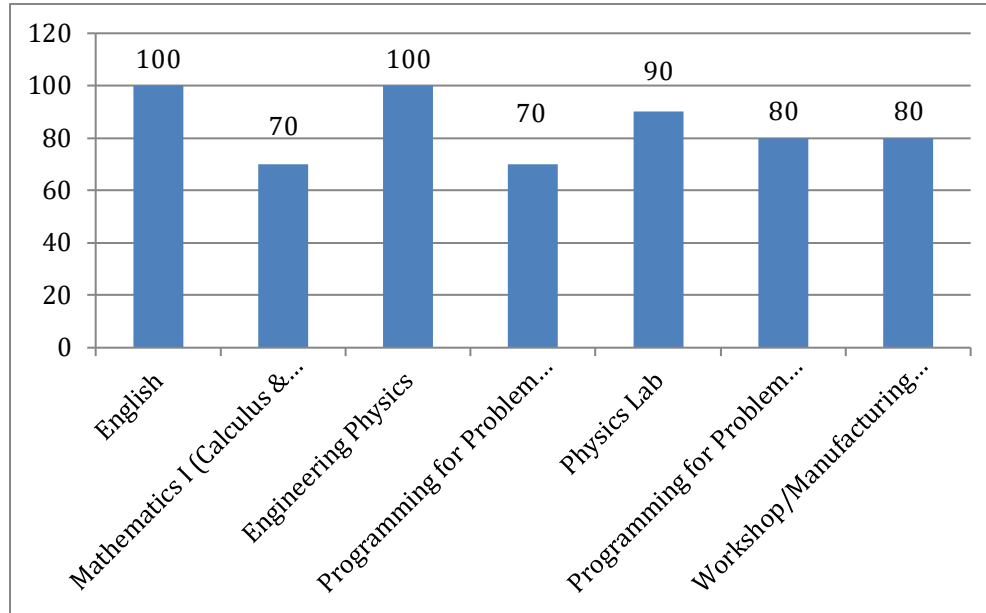
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## Student Feedback Class wise Summary - II Year (Mechatronics) (2021-2025)

<u>S.No</u>	<u>Name</u>	<u>Sem</u>	<u>Subject Name</u>	No of Students	%
1	Dr.N.Saradha	3	Mathematics III (Probability and Statistics)	4	100
2	Dr.N.C.A.Boovarahan	3	Electronic Devices and Circuits	4	100
3	Dr. G. Venkatakoteswara Rao	3	Engineering Mechanics	4	100
4	Dr. S. D. Sathishkumar	3	Manufacturing Technology for Mechatronics	4	100
5	Dr.T.Sundar	3	Sensors & Actuators	4	100
6	Dr.K.Anitha	3	Object Oriented Programming Using C++	4	95
7	Dr.N.Sridhar	3	Sanskrit and Indian Culture	4	100
8	Dr.N.C.A.Boovarahan	3	Electronic Devices and Circuits Lab	4	100
9	Dr. S.D. Sathishkumar	3	Manufacturing process Lab	4	100
10	Dr.K.Anitha	3	Object Oriented Programming Using C++ Lab	4	95



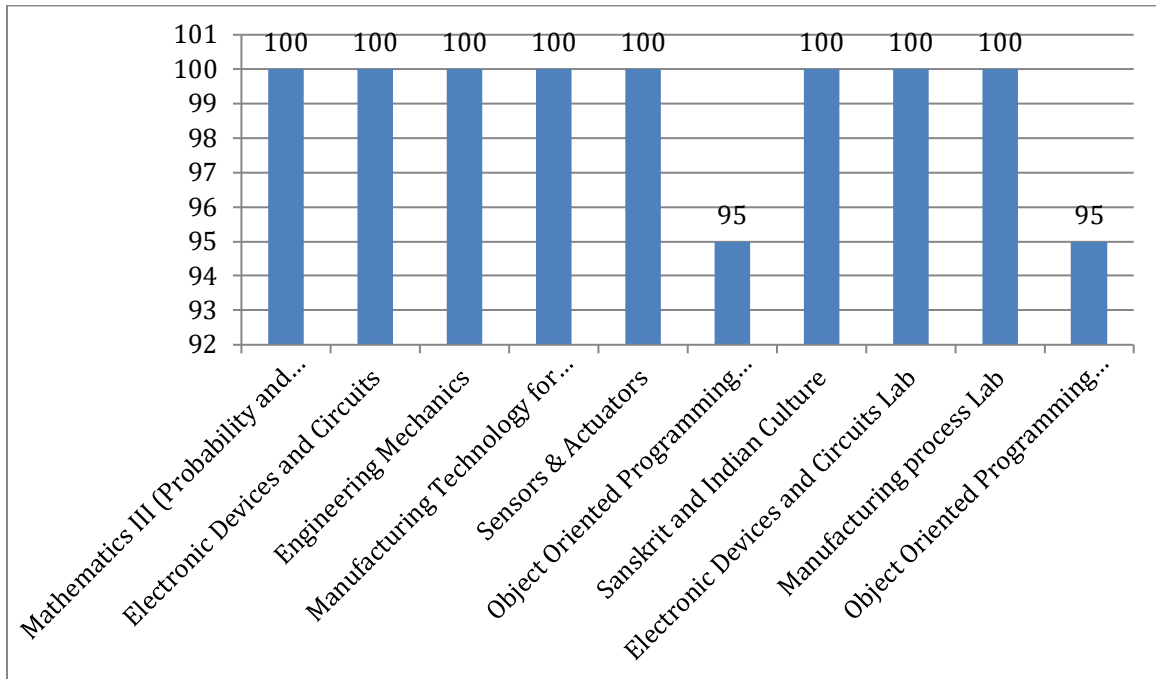
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## Student Feedback Class wise Summary - III Year (Mechatronics) (2020-2024)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr. R. Vnavagamoorthy	5	Professional Elective- I(Theory of Machines)	2	100
2	Dr.K.sugapriya	5	Open Elective – I(Electrical and Mechanical Measurements)	2	90
3	Dr.K.Saraswathi	5	Control System	2	90
4	Dr.T.Sundar	5	Analytical Instrumentation	2	90
5	Dr. T.Lakshmibai	5	Power Electronics and Industrial Drives	2	100
6	Dr. S. Vijayabhaskar	5	Fluid Power Systems	2	100
7	Dr. S. Vijayabhaskar	5	Fluid Power Control Lab	2	100
8	Dr. T.Lakshmibai	5	Power Electronics and Industrial Drives Lab	2	100
9	Dr. S.D.Sathishkumar	5	Machine Drawing Lab	2	100



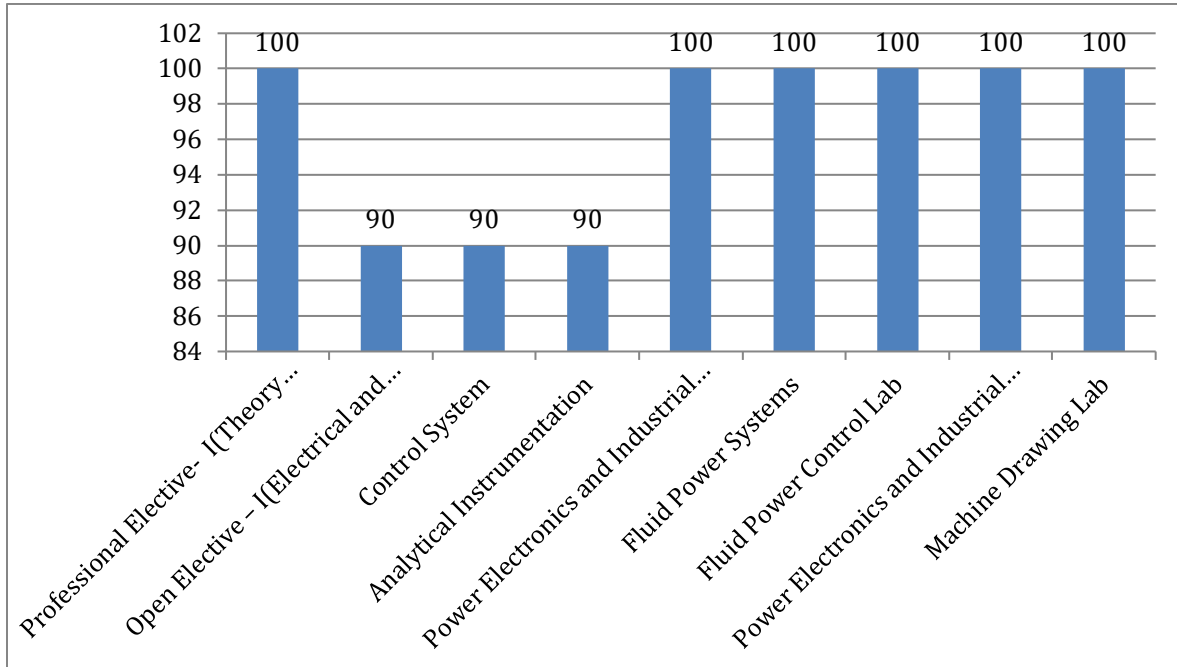
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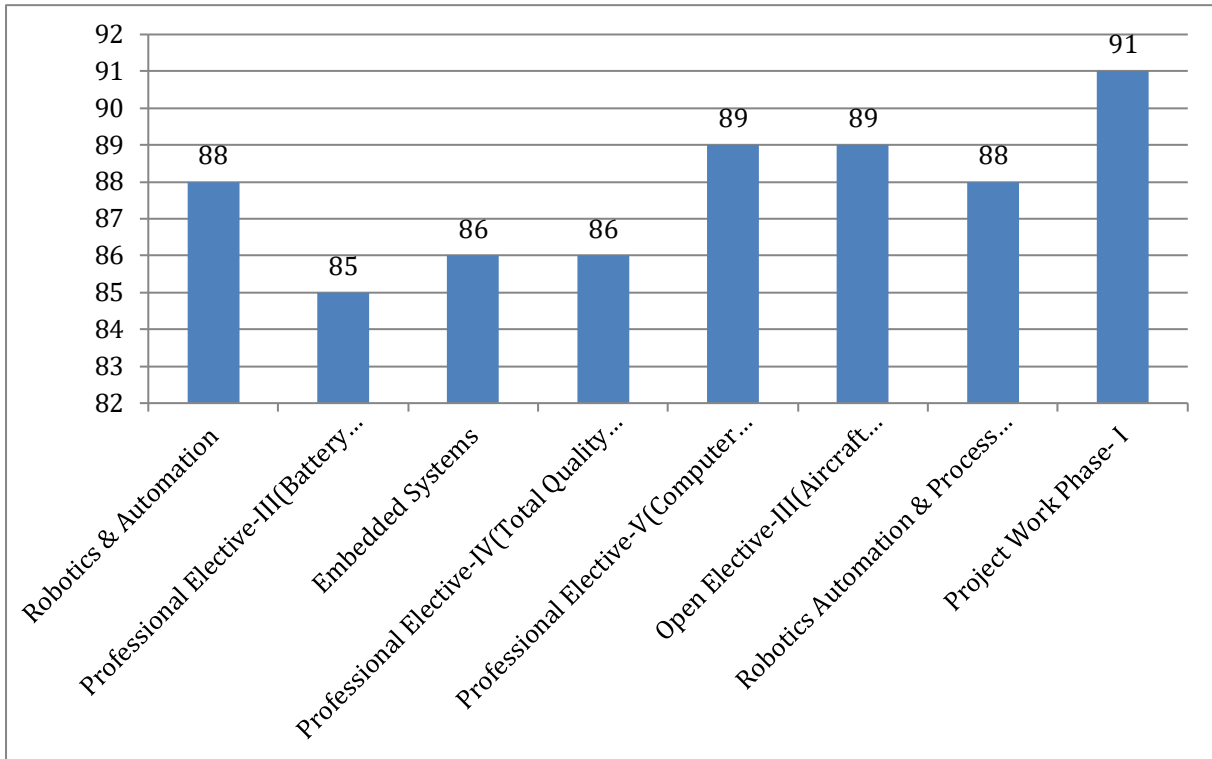


## Student Feedback Class wise Summary - IV Year (Mechatronics) (2019-2023)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr.S.S.Saravanakumar	7	Robotics & Automation	22	88
2	Dr. T.Lakshmbai	7	Professional Elective-III(Battery Technology)	22	85
3	Dr.K.sugapriya	7	Embedded Systems	22	86
4	Dr. R. Balakumar	7	Professional Elective-IV(Total Quality Management)	22	86
5	Dr. D. Vijayan	7	Professional Elective-V(Computer Integrated Manufacturing)	22	89
6	Dr.N.C.A.Boovarahan	7	Open Elective-III(Aircraft Instrumentation)	22	89
7	Dr. T.Sundar	7	Robotics Automation & Process Control Lab	22	88
8	Dr.S.S.Saravanakumar	7	Project Work Phase- I	22	91



## Student Feedback Class wise Summary - III Year (Mechatronics) (2019-2023)









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### Student Feedback Staff wise Summary (Even Sem2022-23)

S.no	Prefix	Name	Sem	Subject_Name	Excelent	Very Good	Good	Average	Poor	NoOf Stud	Point	Score
1	Dr.	K.SARASWATHI	4	LINEAR INTEGRATED CIRCUITS	4	0	0	0	0	4	40	100.00
2	Dr.	K.SARASWATHI	6	PLC & DATA ACQUISITION	1	0	0	0	0	1	10	100.00
3	Dr.	K.SARASWATHI	6	PLC & VIRTUAL INSTRUMENTATION LAB	1	0	0	0	0	1	10	100.00
4	Dr.	K.SARASWATHI	6	PLC & DATA ACQUISITION	1	0	0	0	0	1	10	100.00
5	Dr.	K.SARASWATHI	6	PLC & VIRTUAL INSTRUMENTATION LAB	1	0	0	0	0	1	10	100.00
6	Dr.	JANANI R	6	MICROPROCESSOR AND MICROCONTROLLER	1	0	0	0	0	1	10	100.00
7	Dr.	JANANI R	6	MICROPROCESSOR AND MICROCONTROLLER LAB	1	0	0	0	0	1	10	100.00
8	Dr.	JANANI R	6	MICROPROCESSOR AND MICROCONTROLLER	1	0	0	0	0	1	10	100.00



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9	Dr.	JANANI R	6	Microprocessor and Microcontroller lab	1	0	0	0	0	1	10	100.00
10	Dr.	SUNDAR.T	4	DIGITAL ELECTRONICS	4	0	0	0	0	4	40	100.00
11	Dr.	SUNDAR.T	6	BIOMEDICAL INSTRUMENTATION	1	0	0	0	0	1	10	100.00
12	Dr.	SUNDAR.T	6	BIOMEDICAL INSTRUMENTATION	1	0	0	0	0	1	10	100.00
13	Dr.	SUNDAR.T	8	PROCESS CONTROL LAB	6	1	1	0	0	8	74	92.50
14	Dr.	T.LAKSHMIBAI	2	Electronics	1	0	0	0	0	1	10	100.00
15	Dr.	T.LAKSHMIBAI	4	Microprocessor and Microcontroller Lab	13	4	7	0	0	24	204	85.00
16	Dr.	T.LAKSHMIBAI	6	PRINCIPLES OF COMMUNICATION	1	0	0	0	0	1	10	100.00
17	Dr.	T.LAKSHMIBAI	6	PRINCIPLES OF COMMUNICATION	1	0	0	0	0	1	10	100.00
18	Dr.	SARAVANA KUMAR.S.S	4	LIC AND DIGITAL ELECTRONICS LAB	4	0	0	0	0	4	40	100.00
19	Dr.	SARAVANA KUMAR.S.S	6	EMBEDDED SYSTEM	1	0	0	0	0	1	10	100.00
20	Dr.	SARAVANA KUMAR.S.S	8	NANO TECHNOLOGY	6	1	4	0	0	11	92	83.64
21	Dr.	SARAVANA KUMAR.S.S	8	NANO TECHNOLOGY	1	0	0	0	0	1	10	100.00



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22	Dr.	SARAVANA KUMAR.S.S	8	PROJECT PHASE 2	6	1	4	0	0	11	92	83.64
23	Dr.	SARAVANA KUMAR.S.S	8	PROJECT PHASE 2	1	0	0	0	0	1	10	100.00
24	Dr.	K.SUGAPRIYA	4	Microprocessor and Microcontroller	21	13	12	1	0	47	390	82.98
25	Dr.	K.SUGAPRIYA	4	Microprocessor and Microcontroller	0	1	1	0	0	2	14	70.00
26	Dr.	K.SUGAPRIYA	4	Microprocessor and Microcontroller Lab	10	6	7	0	0	23	190	82.61
27	Dr.	K.SUGAPRIYA	4	Microprocessor and Microcontroller Lab	0	1	1	0	0	2	14	70.00
28	Dr.	K.SUGAPRIYA	6	Digital Electronics	5	0	0	0	0	5	50	100.00
29	Dr.	BOOVARAHAN	4	Basic Electronics Engineering	1	0	0	0	0	1	10	100.00
30	Dr.	BOOVARAHAN	6	PRINCIPLES OF MANAGEMENT & PROFESSIONAL ETHICS	1	0	0	0	0	1	10	100.00
31	Dr.	BOOVARAHAN	6	PRINCIPLES OF MANAGEMENT & PROFESSIONAL ETHICS	1	0	0	0	0	1	10	100.00



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32	Dr.	BOOVARAHAN	8	IOT IN AUTOMATION	7	1	3	0	0	11	96	87.27
33	Dr.	BOOVARAHAN	8	IOT IN AUTOMATION	1	0	0	0	0	1	10	100.00



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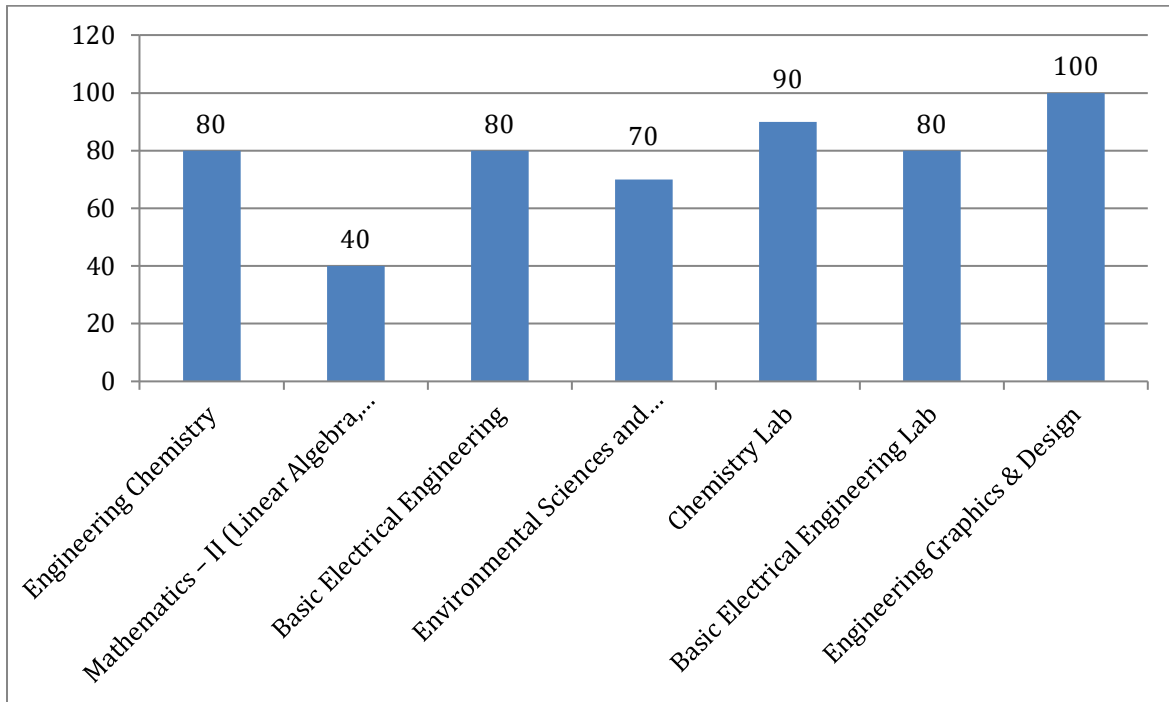


## Student Feedback Class wise Summary - I Year (Mechatronics) (2022-2026)

<u>S.No</u>	<u>Name</u>	<u>Sem</u>	<u>Subject Name</u>	No of Students	%
1	Mrs.M.PARAMESWARI	2	Engineering Chemistry	2	80
2	Dr.BALAJI P	2	Mathematics – II (Linear Algebra, Transform Calculus and Numerical methods)	2	40
3	Dr.B.KANDAVEL	2	Basic Electrical Engineering	2	80
4	Mrs.JEYALAKSHMI.C	2	Environmental Sciences and	2	70
5	Mrs.M.PARAMESWARI	2	Chemistry Lab	2	90
6	Dr.B.KANDAVEL	2	Basic Electrical Engineering Lab	2	80
7	Dr.S.D.SATHISHKUMAR	2	Engineering Graphics & Design	2	100



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





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<u>S.No</u>	<u>Name</u>	<u>Sem</u>	<u>Subject Name</u>	No of Students	%
1	Dr. R. Vinayagamoorthi	4	STRENGTH OF MATERIALS & FLUID MECHANICS	4	100
2	Mr. G. Subramanian	4	INDUSTRIAL INSTRUMENTATION	4	100
3	Dr. R. Ellappan	4	MATERIALS ENGINEERING	4	100
4	Dr. G.Venkata Koteswara Rao	4	THERMODYNAMICS	4	100
5	Dr. K. Saraswathi	4	LINEAR INTEGRATED CIRCUITS	4	100
6	Dr. T. Sundar	4	DIGITAL ELECTRONICS	4	100
7	Dr. S. S. Saravana Kumar	4	LIC AND DIGITAL ELECTRONICS LAB	4	100
8	Dr. R. Ellappan	4	THERMAL ENGINEERING LAB	4	100
9	Dr. P. Chenga Reddy	4	STRENGTH OF MATERIALS AND FLUID MECHANICS LAB	4	100





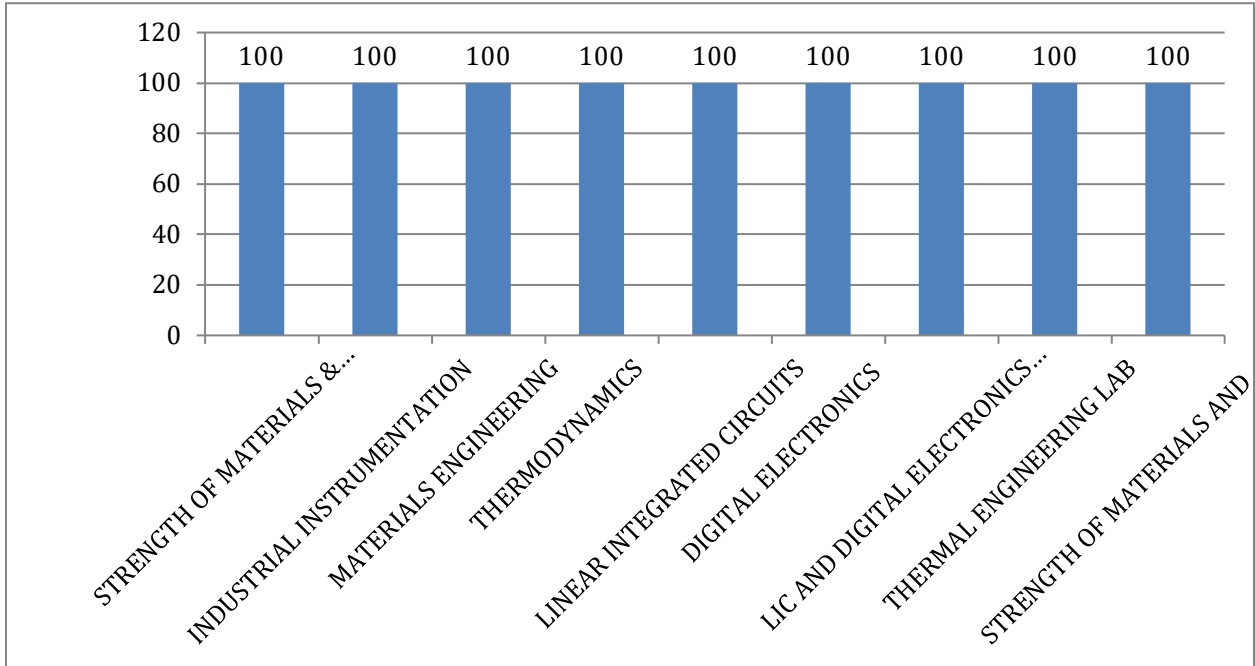
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S.No	Name	Sem	Subject Name	No of Students	%
1	Dr. T. Lakshmibai	6	PRINCIPLES OF COMMUNICATION	2	100
2	Dr. T. Sundar	6	BIOMEDICAL INSTRUMENTATION	2	100
3	Dr.K. Saraswathi	6	PLC & DATA ACQUISITION	2	100
4	Dr. R. Janani	6	MICROPROCESSOR AND MICROCONTROLLER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



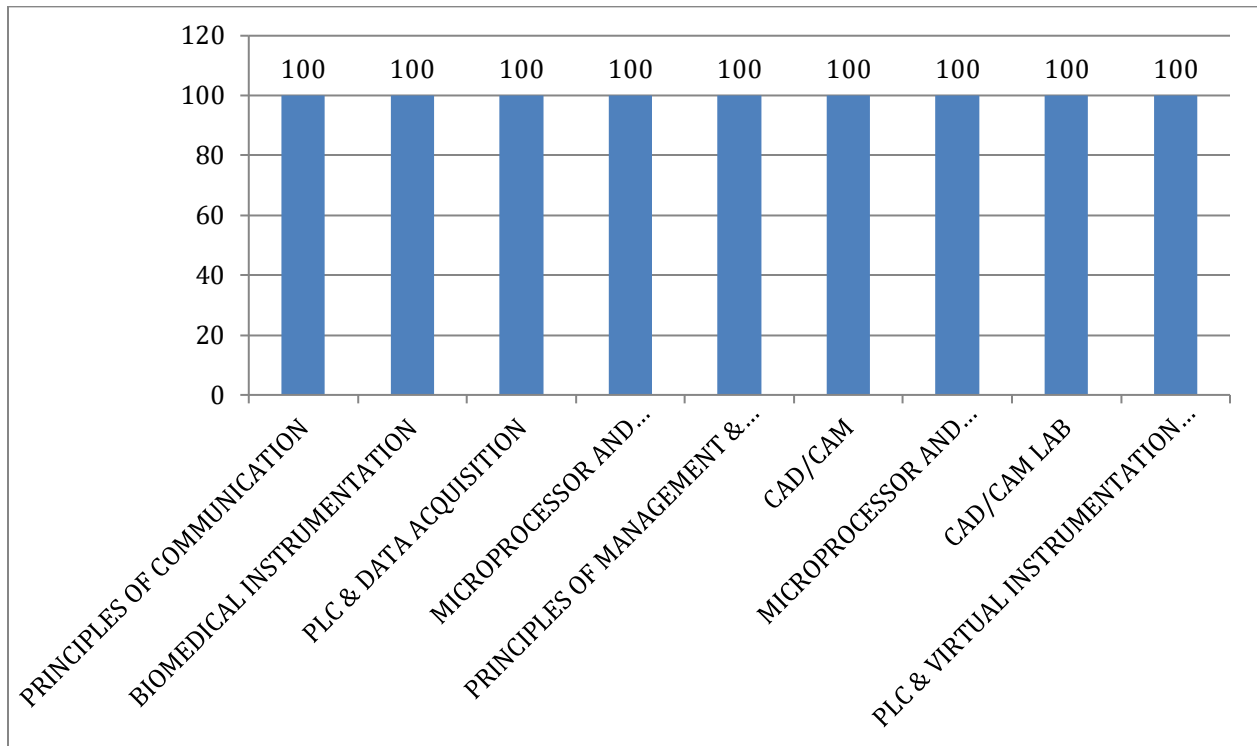
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### Student Feedback Class wise Summary - III Year (Mechatronics) (2020-2024)





श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः  
(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिप्रमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

**SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA  
(SCSVMV)**

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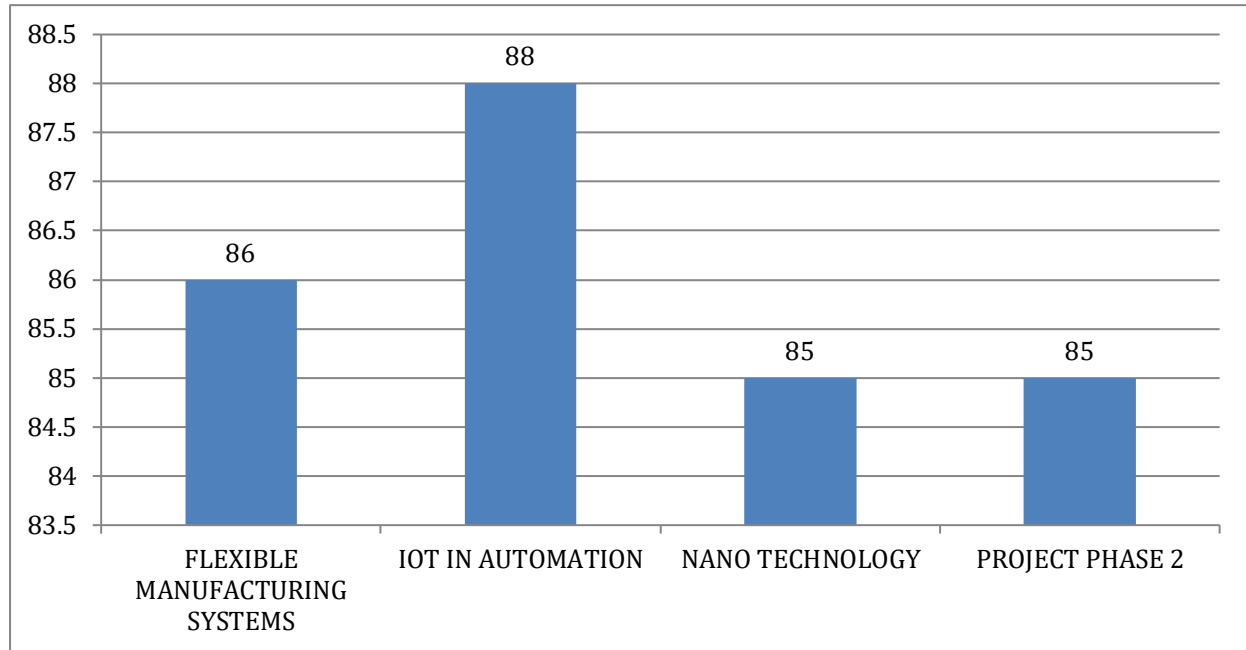


## Student Feedback Class wise Summary - IV Year (Mechatronics) (2019-2023)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr. S. D. Sathish Kumar	8	FLEXIBLE MANUFACTURING SYSTEMS	22	86
2	Dr. N. C. A. Boovarahan	8	IOT IN AUTOMATION	22	88
3	Dr. S. S. Saravana Kumar	8	NANO TECHNOLOGY	22	85
4	Dr. S. S. Saravana Kumar	8	PROJECT PHASE 2	22	85



### Student Feedback Class wise Summary - III Year (Mechatronics) (2019-2023)





## 21. RESULT ANALYSIS (2022-2023)

### OVER ALL PASS PERCENTAGE FOR ODD SEMESTER (2022-2023)

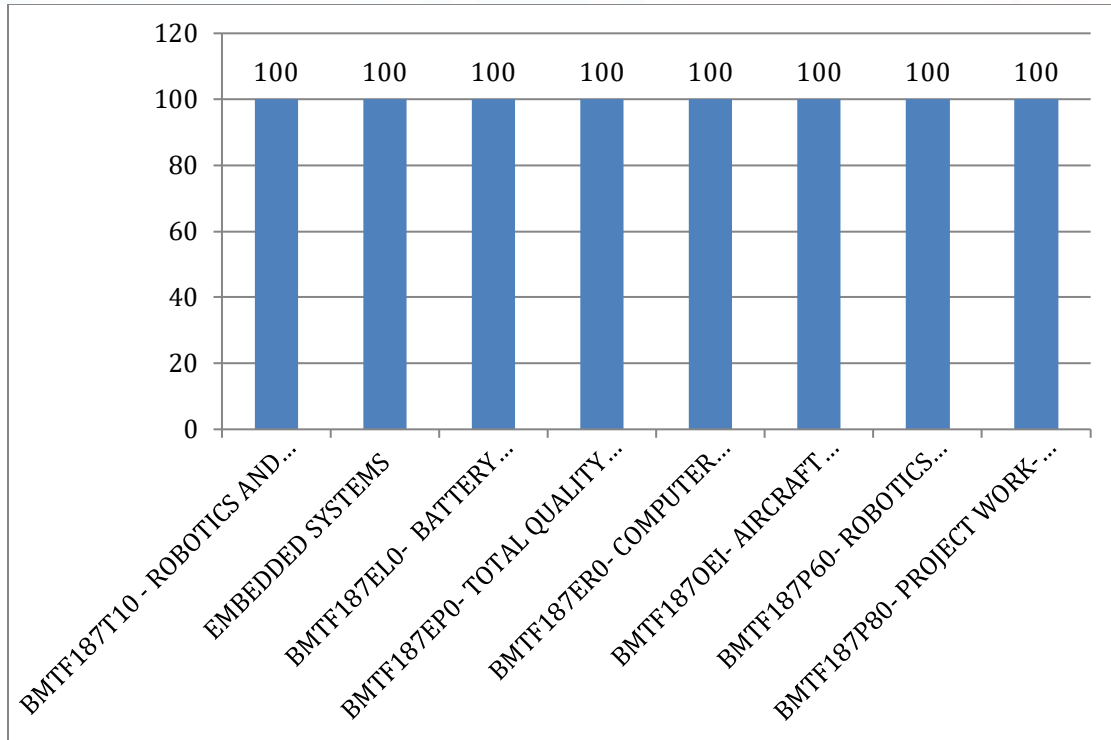
#### MECHATRONICS ENGINEERING

YEAR/SEM	BATCH	PASS PERCENTAGE
4 <sup>th</sup> year/7 <sup>th</sup> sem	2019-2023	100
3 <sup>rd</sup> Year /5 <sup>th</sup> Sem	2020-2024	50
2 <sup>ND</sup> Year /3 <sup>rd</sup> Sem	2021-2025	75
1 <sup>st</sup> Year/1 <sup>st</sup> Sem	2022-2026	100

### OVER ALL PASS PERCENTAGE FOR ODD SEMESTER (2022-2023)

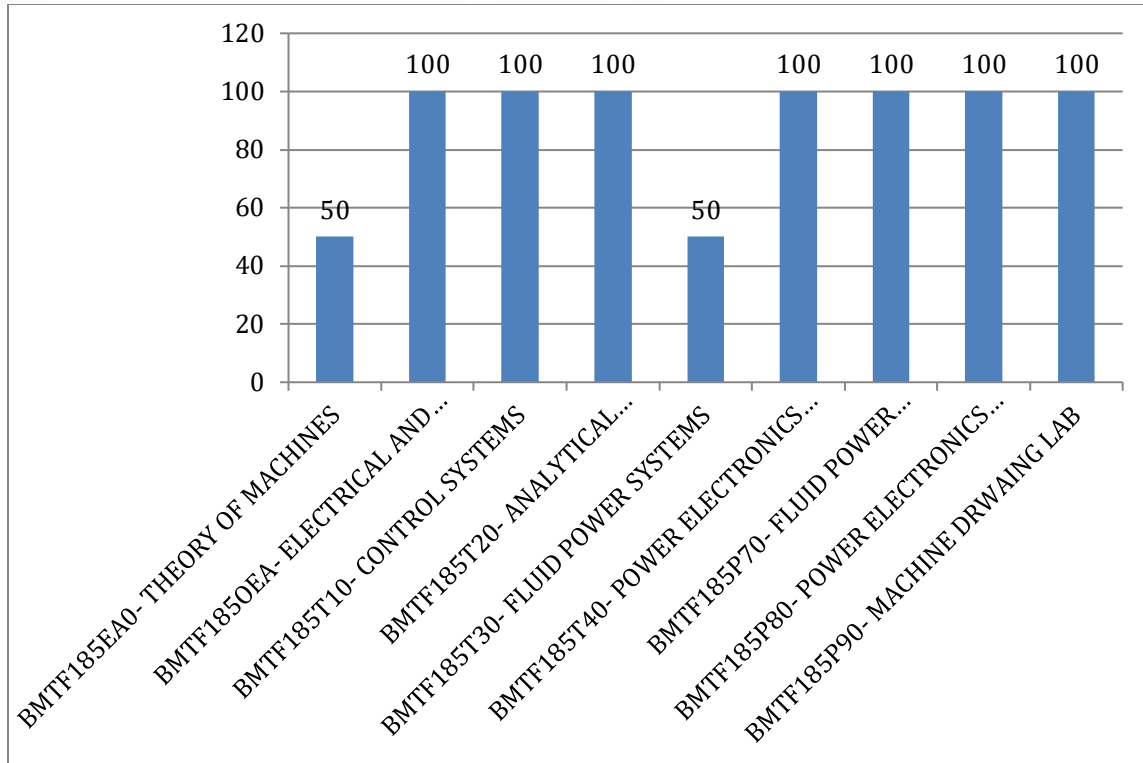
#### 4<sup>th</sup> year/7<sup>th</sup> sem

S.NO.	SUBJECT	Pass Percentage
1	BMTF187T10 - ROBOTICS AND AUTOMATION	100
2.	EMBEDDED SYSTEMS	100
3.	BMTF187EL0- BATTERY TECHNOLOGY	100
4.	BMTF187EP0- TOTAL QUALITY MANAGEMENT	100
5.	BMTF187ER0- COMPUTER INTEGRATED MANUFACTURING	100
6.	BMTF187OEI- AIRCRAFT INSTRUMENTATION	100
7.	BMTF187P60- ROBOTICS AUTOMATION& PROCESS CONTROL LAB	100
8.	BMTF187P80- PROJECT WORK- PHASE 1	100



3<sup>rd</sup> year/5<sup>th</sup> sem

S.NO.	SUBJECT	Pass Percentage
1	BMTF185EA0- THEORY OF MACHINES	50
2.	BMTF185OEA- ELECTRICAL AND MECHANICAL MEASUREMENTS	100
3.	BMTF185T10- CONTROL SYSTEMS	100
4.	BMTF185T20- ANALYTICAL INSTRUMENTATION	100
5.	BMTF185T30- FLUID POWER SYSTEMS	50
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



2<sup>nd</sup> year/3<sup>rd</sup> sem

S.NO.	SUBJECT	Pass Percentage
1	BMTF183T10- MATHEMATICS –III – PROBABILITY AND STATISTICS	75
2.	BMTF183T30- ELECTRONIC DEVICES AND CIRCUITS	75
3.	BMTF183T40- ENGINEERING MECHANICS	100
4.	BMTF183T50- MANUFACTURING TECHNOLOGY FOR MECHATRONICS	100
5.	BMTF183T60- SENSORS AND ACTUATORS	100
6.	BETF183T20- OBJECT ORIENTED PROGRAMMING LANGUAGE USING C++	100
7.	BMTF183P80- ELECTRONIC DEVICES AND CIRCUITS LAB	100
8.	BMTF183P90- MANUFACTURING PROCESS LAB	100
9.	BMTF183P70- OBJECT ORIENTED PROGRAMMING LANGUAGE USING C++ LAB	100

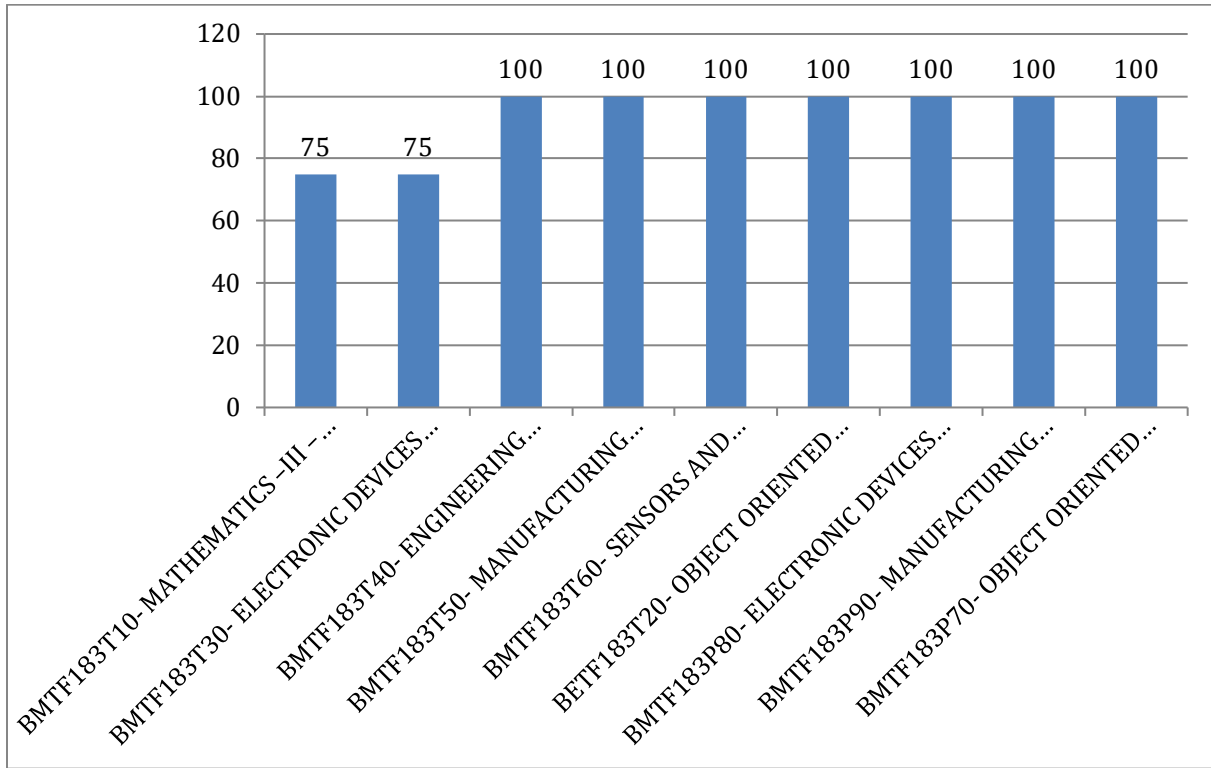




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1<sup>st</sup> year/1<sup>st</sup> sem

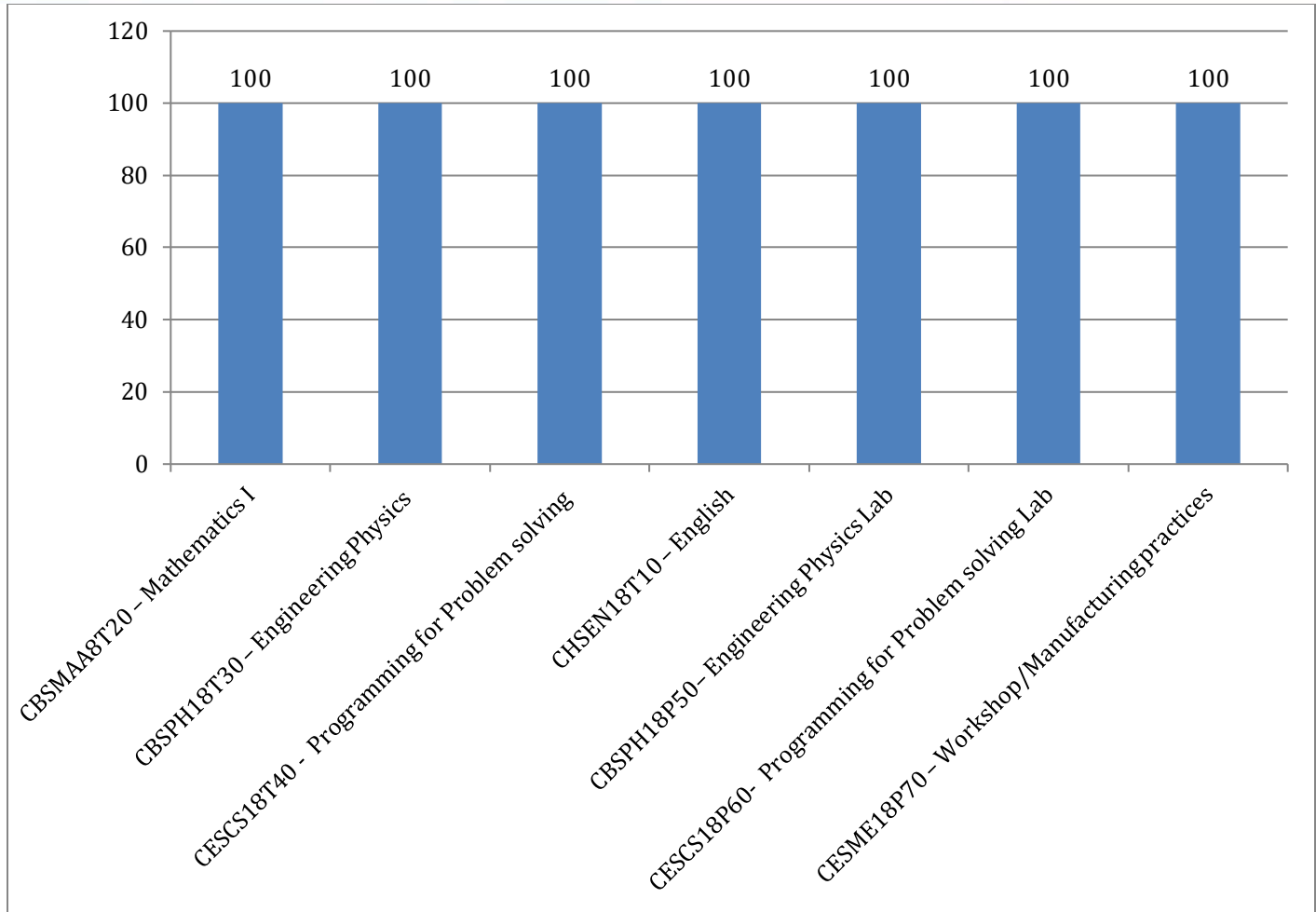
S.NO.	SUBJECT	Pass Percentage
1	CBSMAA8T20 - Mathematics I	100
2.	CBSPH18T30 - Engineering Physics	100
3.	CESCS18T40 - Programming for Problem solving	100
4.	CHSEN18T10 - English	100
5.	CBSPH18P50- Engineering Physics Lab	100
6.	CESCS18P60- Programming for Problem solving Lab	100
7.	CESME18P70 - Workshop/Manufacturing practices	100



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## 22. PLACEMENT ACTIVITY DETAILS

IV Year-Mechatronics

(2019-2023) Batch

Sl. No	REGISTER NUMBER	NAME	COMPANY NAME	Job Description	ANNUAL PACKAGE
1	11199H001	Hari Datta Raja Ram	NVH INDIA	Engineer Trainee	144,500
2	11199H003	T.V.S Avinash	JM FRICTECH	GET	250,000
			MOTHERSON	OET	246,000
3	11199H006	R. Devanand	MOTHERSON	OET	252,636
4	11199H007	K. Dineshkumar	NVH INDIA	GET	140,000
5	11199H010	Hari Ramanan S	BGR NEO LTD	GET	240,000
6	11199H013	Manu Mahaadev G	L&T TECHNOLOGY SERVICES	GET	240,000
7	11199H015	Sakthivel .P	MOTHERSON	OET	252,636
8	11199H016	SK. Yaseen	NVH INDIA	Engineer Trainee	140,000
9	11199H018	S. Chaitanya Venkat	MOTHERSON	OET	250,000
10	11199H019	Srihari B R	MOTHERSON	OET	252,636
11	11199H022	M. V. Achyuth	NVH INDIA	Engineer Trainee	140,000
12	11199H023	G. Sai Sandeep	NVH INDIA	Engineer Trainee	140,000



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## LIST OF COMPANIES VISITED FOR PLACEMENT





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**Tech  
Mahindra**





## 23. WORK COMPLETION REPORT

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

YEAR 2022-23

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: \_\_\_\_\_



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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, JANANI.R., confirm that I have

- Completed the teaching work assigned to me for this semester and completed the syllabus  
**YES/NO**
- I have conducted the required evaluation components for all courses and the results (mark Statement) have been handed over to the department **YES/NO**
- I have completed all other administrative tasks assigned to me for this semester. **YES/NO**
- 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**
- I have returned all department library books and no books are pending against my name.  
**YES/NO**
- 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.LAKSHMIBAI, confirm that I have

- Completed the teaching work assigned to me for this semester and completed the syllabus  
**YES/NO**
- I have conducted the required evaluation components for all courses and the results (mark Statement) have been handed over to the department **YES/NO**
- I have completed all other administrative tasks assigned to me for this semester. **YES/NO**
- 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**
- I have returned all department library books and no books are pending against my name.  
**YES/NO**
- 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, S.S.SARAVANAKUMAR, confirm that I have

- Completed the teaching work assigned to me for this semester and completed the syllabus  
**YES/NO**
- I have conducted the required evaluation components for all courses and the results (mark Statement) have been handed over to the department **YES/NO**
- I have completed all other administrative tasks assigned to me for this semester. **YES/NO**
- 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**
- I have returned all department library books and no books are pending against my name.  
**YES/NO**
- 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

- Completed the teaching work assigned to me for this semester and completed the syllabus  
**YES/NO**
- I have conducted the required evaluation components for all courses and the results (mark Statement) have been handed over to the department **YES/NO**
- I have completed all other administrative tasks assigned to me for this semester. **YES/NO**
- 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**
- I have returned all department library books and no books are pending against my name.  
**YES/NO**
- 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

- Completed the teaching work assigned to me for this semester and completed the syllabus  
**YES/NO**
- I have conducted the required evaluation components for all courses and the results (mark Statement) have been handed over to the department **YES/NO**
- I have completed all other administrative tasks assigned to me for this semester. **YES/NO**
- 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**
- I have returned all department library books and no books are pending against my name.  
**YES/NO**
- 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 2023-2024)

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

Teaching, Learning and Evaluation related activities
<ul style="list-style-type: none"><li>● Teaching of the courses assigned <b>ODD SEMESTER</b><ol style="list-style-type: none"><li>1. Advance Control Systems - II Yr Mechanical</li><li>2. Analytical Instrumentation- III Yr Mechatronics</li><li>3. Robotics Automation and Process Control Lab – IV Yr Mechatronics</li><li>4. Robotics and Automation - IV Yr Mechatronics</li></ol><b>EVEN SEMESTER</b><p>Will be assigned by HOD</p></li><li>● Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals.</li></ul> <p><b>Completed Work for the year 2022-2023</b></p> <ul style="list-style-type: none"><li>● All the odd &amp; even semester subject syllabus, internal evaluation and assessments are completed</li><li>● Prepared PLC and VI Lab manual for IV Year Mechatronics students.</li></ul>
Co-curricular, Extension, Professional development related activities
<ul style="list-style-type: none"><li>● Planned to arrange an Industrial Visit to Food Processing Industry.</li><li>● Planned to attend Refresher courses and Conferences.</li></ul> <p><b>Completed Work for the year 2022-2023</b></p> <ul style="list-style-type: none"><li>● Actively participated in Online FDP Programs.</li></ul>
Research, Publications and Academic contributions
<ul style="list-style-type: none"><li>● Planned to Present papers in IEEE Conferences.</li></ul> <p><b>Completed Work for the year 2022-2023</b></p> <ul style="list-style-type: none"><li>● Published papers in SCOPUS and UGC journals.</li></ul>

Signature of the Faculty

HOD/EIE



**For the Academic Year 2023-2024 - 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. Digital Electronics -II Yr CSE/IT
2. Electrical and Mechanical Measurements – III Yr Mechatronics
3. Digital Electronics Lab – II Yr CSE/IT

**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 2022-2023**

- 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 2022-2023**

- 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 2022-2023**

- 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 2023-2024 - Work Plan**

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

<b>Teaching, Learning and Evaluation related activities</b>
<b>Subjects assigned</b> <b>ODD SEMESTER</b> 1. Embedded Systems- Final Year Mechatronics  <b>EVEN SEMESTER</b> Will be assigned by HOD
<b>Completed Work for the previous year 2022-2023</b> All the odd and even semester subject syllabus, internal evaluation and assessments are completed
<b>Co-curricular, Extension, Professional development related activities</b>
<ul style="list-style-type: none"><li>● To organize two days FDP in Virtual Instrumentation, PLC and SCADA Based Automation</li><li>● Instruct students to join and undergo NPTEL Certificate exam as well as SWAYAM courses</li><li>● Registered for Domain Certification in NPTEL</li></ul>
<b>Completed Work for the previous year 2022-2023</b> <ul style="list-style-type: none"><li>● Participated in GIAN Courses, FDP, National and International Conference.</li></ul>
<b>Research, Publications and Academic contributions</b>
<ul style="list-style-type: none"><li>● Publish papers in SCI Indexed Journals.</li><li>● Articles in International Conference.</li></ul>
<b>Completed Work for the previous year 2022-2023</b> <ul style="list-style-type: none"><li>● Presented Two research papers in International Conference</li></ul>

**Signature of the Faculty**

**HOD/EIE**



**For the Academic Year 2023-2024 - Work Plan**

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

<b>Teaching, Learning and Evaluation related activities</b>								
<p><b>Subjects assigned</b></p> <p><b>ODD SEMESTER</b></p> <table><tr><td>1. Aircraft Instrumentation</td><td>Final Year Mechatronics</td></tr><tr><td>2. Power Electronics &amp; Industrial Drives</td><td>Third Year Mechatronics</td></tr><tr><td>3. Power Electronics &amp; Industrial Drives Lab</td><td>Third Year Mechatronics</td></tr><tr><td>4. Principles of Communication</td><td>Third Year Information Technology</td></tr></table> <p><b>EVEN SEMESTER</b></p> <p>Will be assigned by HOD To prepare fresh study materials, question bank for Battery Technology</p> <p><b>Completed Work for the previous year 2022-2023</b></p> <p>All the odd and even semester subject syllabus, internal evaluation and assessments are completed</p>	1. Aircraft Instrumentation	Final Year Mechatronics	2. Power Electronics & Industrial Drives	Third Year Mechatronics	3. Power Electronics & Industrial Drives Lab	Third Year Mechatronics	4. Principles of Communication	Third Year Information Technology
1. Aircraft Instrumentation	Final Year Mechatronics							
2. Power Electronics & Industrial Drives	Third Year Mechatronics							
3. Power Electronics & Industrial Drives Lab	Third Year Mechatronics							
4. Principles of Communication	Third Year Information Technology							
<b>Co-curricular, Extension, Professional development related activities</b>								
<ul style="list-style-type: none"><li>● To arrange an Industrial Visit to core company.</li><li>● To organize FDP in Sensors, PLC Based Automation</li><li>● Encourage students to join and undergo NPTEL Certificate exam as well as SWAYAM courses</li></ul> <p><b>Completed Work for the previous year 2022-2023</b></p> <ul style="list-style-type: none"><li>● Participated in National Conference for Paper Presentation</li><li>● Arranged Workshop, Seminar and guest lectures.</li><li>● Conducted Engineers' day function and released a magazine names "Injeneers Navapravasthana"</li></ul>								
<b>Research, Publications and Academic contributions</b>								





- Publish papers in Indexed Journals.
- Articles in International Conferences.

**Completed Work for the previous year 2022-2023**

- Presented a paper in the National conference.
- Given a lecture on “Sensors and Actuators - A brief review on SMA based Actuators” in Lecture series-1 organized by IQAC in association with EIE department at ECE Seminar Hall, SJP block, SCSVMV University on 17.06.2023.
- Completed a Faculty 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.
- Received a order from the Registrar, SCSVMV for PhD Guide ship in the department of Electronics and Instrumentation Engg from January 2023 onwards.

**Signature of the Faculty**

**HOD/EIE**

**For the Academic Year 2023-2024 - 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. Control system-III year Mechatronics
  2. Sensors and Actuator-II year Mechanical
  3. Sensors and Transducer-II year Mechatronics

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 2022-2023**

- All the odd & even semester subject syllabus, internal evaluation 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 2022-2023

- Actively participated in FDP conducted through online.
- Guided the project phase-I & phase-II for final year students.

### Research, Publications and Academic contributions

- Paper published in SCIE journal.
- Planned to Present papers in IEEE Conferences.

Signature of the Faculty

HOD/EIE

### For the Academic Year 2023-2024 - Work Plan

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

### Teaching, Learning and Evaluation related activities

- Teaching of the courses assigned

#### ODD SEMESTER

1. Digital principles and Applications (I BCA)
2. Electronics Devices and Circuits (II Mechatronics )
3. Basic Electronics Engineering (I Mechanical Part Time)

Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals.

#### EVEN SEMESTER

Will be assigned by HOD

### Completed Work for the previous year 2022-23

- Prepared IOT IN AUTOMATION Study Material.
- All the odd & even semester subject syllabus, internal evaluation and assessments are completed.

### Co-curricular, Extension, Professional development related activities



- To arrange a Workshop and Guest Lecture.
- To attend Hands on training workshop in 6G communication.

**Completed Work for the previous year 2022-23**

- Participated Online FDPs and webinars.
- Actively participated in online workshop.

**Research, Publications and Academic contributions**

- Paper Published in IJRPR (UGC) Journal

Signature of the Faculty

HOD/EIE

**25. DETAILS OF ADDITIONAL RESPONSIBILITIES OF THE STAFF**

**Additional Responsibility (2022-2023)**

S.No	Description Work	Faculty In charge
1.	Educational Tour, Industrial Visit, Internship Training, Workshop, Guest Lectures	All Faculties
2.	Placements	Dr.S.S.Saravanakumar
3.	IQAC	Dr.Janani R
4.	Time Table In charge / Evarsity / Internal Test and University exam related works	Dr.G.P.Sivakumar Dr.S.S.Saravanakumar
5.	Department Activity	Dr.T.Sundar
6.	Result Analysis & Feedback	Dr.T.Lakshmibai
7.	Department Library	Dr.K.Saraswathi
8.	Student Attendance	All Faculties
9.	Staff Attendance	Mr.K.Vinayagamoorthy



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10.	Web Updating	Dr.K.Sugapriya
11.	Research Coordinator, NIRF	Mr.N.C.A. Boovarahan
12.	Department Work (File Maintenance, Stationary, Letters), Department Profile book, Department Maintenance , Department Related outside/ External work, & Office Work	Mr.G.Subramaniyan Mrs.V.Komala Mr.K.Vinayagamoorthy

- 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 II YEAR MECHATRONICS**  
**CONDUCTED ON 05.05.2023 at 10.00 AM.**

05.05.2023

Students Present:

II 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.S. S. SARAVANA KUMAR

4. Mr.G.SUBRAMANIYAN

5. Mr.K.VINAYAGAMOORTHY

HOD : Mr.V.SWAMINATHAN

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 Industrial Training.
4. The importance of various training program (SWAYAM courses) offered through online were informed.
5. The students are satisfied with the syllabus completion of current semester Theory and Lab subjects.
6. It is informed to the students about semester exam pattern and also instructed not to have any dues.

**Class in Charge**

**T. SUNDAR**

**HOD/EIE**

**V.SWAMINATHAN**

04.05.2023

MINUTES OF CLASS COMMITTEE MEETING OF III YEAR MECHATRONICS  
CONDUCTED on 04.05.2023 at 9.30 AM.

Students Present:

III Year Mechatronics: 1. Raghul. V  
2. Kudaravalli Venkata Sai Lakshman

Staff Present : 1. Dr. T. LAKSHMIBAI (Class-in-charge)  
2. Dr.K.SARASWATHI  
3. Dr. T. SUNDAR  
4. Dr. N.C.A. BOOVARAHAN

HOD : Mr.V.SWAMINATHAN

HOD greets the students present after University resumes following pandemic hiatus and explained challenges to be faced. The points discussed were:

1. Students are informed about academic schedule.
2. Students are advised to concentrate on mini-projects and placement training program.
3. Also briefed about placements, exam pattern, infrastructure enhancement, playground and Gym and Library renovation etc,
4. All the students are instructed to maintain good attendance percentage.



5. They are guided to plan for Internship and Industrial Training.
6. The importance of various training program (SWAYAM courses) offered through online were informed.
7. The students are comfortable with the current semester syllabus completion, both Theory and Practical subjects.
8. It is informed to the students about semester exam pattern and also instructed not to have any dues.
9. It is informed to the students that if they want to do projects in industries they will be allowed to do the project on proper submission of documents. They can choose interdisciplinary projects also.

**Class in Charge**

**HOD/EIE**

**Dr. T. LAKSHMIBAI**

08.05.2023

MINUTES OF CLASS COMMITTEE MEETING OF IV YEAR MECHATRONICS  
CONDUCTED on 08.05.2023 at 12:30 PM.

Students Present:

IV Year Mechatronics

Staff Present : 1. Dr. S. S. SARAVANA KUMAR (Class-in-charge)  
2. Dr.K.SARASWATHI  
3. Dr. T. SUNDAR  
4. Dr. N.C.A. BOOVARAHAN

HOD : Mr.V.SWAMINATHAN

The following points were discussed:

1. Students are informed about academic schedule.
2. All the students are instructed to maintain good attendance percentage.
3. The students are comfortable with the current semester syllabus completion, both Theory and Practical subjects.



- All the Students are informed to finish the Project in-time along with their report for the Final review.
- It is informed to the students about semester exam pattern and also instructed not to have any dues.

**Class in Charge**

**HOD/EIE**

**Dr. S. S. Saravana Kumar**

## 27. MAINTENANCE OF STAFF RECORDS

### Staff Leave Particulars

From 01/07/2022 to 30/06/2023

S. N	NAME	DESIGNATION	CL	EL	ML	RH	CH	OD	DL	PA	MA	VA	LOP	TOT
1	Mr. V.SWAMINATHAN	Associate Professor & HOD	11.0	-	-	-	-	-	-	-	-	-	-	11
2	Dr. K.SARASWATHI	Assistant Professor (Stage-II)	8.5	8.0	4.0	1	-	-	-	-	-	-	-	21
3	Dr. JANANI R	Assistant Professor	4.5	-	-	-	3	-	1.0	-	-	-	-	8
4	Dr. G PADMANABHA SIVAKUMAR	Assistant Professor	3.5	-	11.0	-	-	-	-	-	-	-	-	14
5	Dr. SUNDAR.T	Assistant Professor	5.0	-	-	-	-	6.0	-	-	-	-	-	11
6	Dr. T.LAKSHMIBAI	Assistant Professor	11.5	34.0	6.0	2	-	-	1.0	-	-	-	-	54
7	Dr. SARAVANA KUMAR.S.S	Assistant Professor	12.0	9.0	-	1	-	10.0	-	-	-	-	-	32
8	Dr. K.SUGAPRIYA	Assistant Professor	11.0	10.0	14.0	-	-	-	-	-	-	-	-	35.



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9	Dr. BOOVARAHAN	Assistant Professor	12.0	-	11.0	-	-	3.0	-	-	-	-	-	26
10	Mr. G. SUBRAMANIYAN	Sr.Lab Instructor	10.5	11.0	11.0	1	-	-	-	-	-	-	-	33
11	Ms. V.KOMALA	Lab Instructor	8.5	-	9.0	1	-	-	-	-	-	-	-	18
12	Mr. K.VINAYAGAMOORTHY	Lab Instructor	10.0	5.0	-	1	-	-	-	-	-	-	-	16

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.

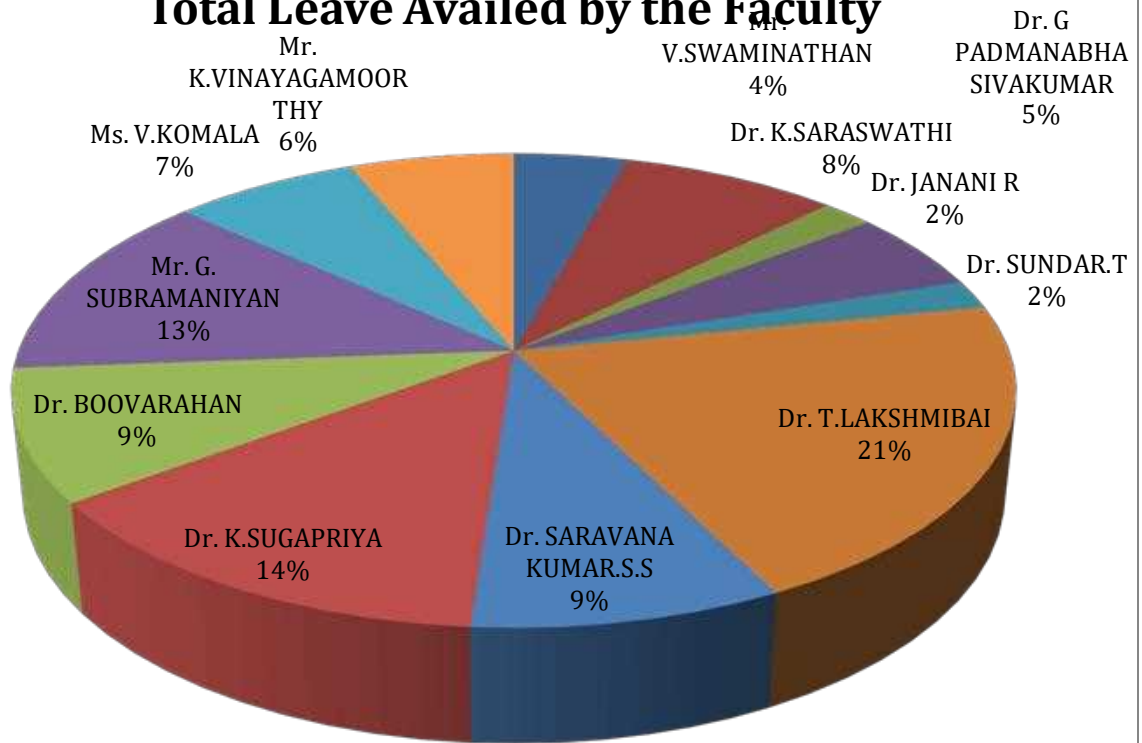
**Signature of HOD**

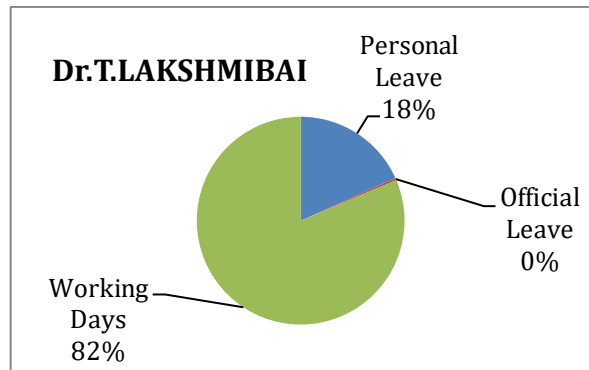
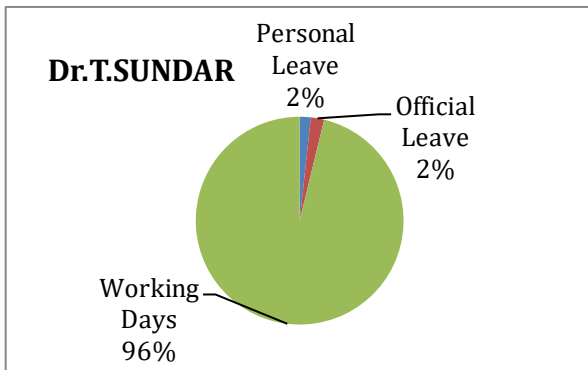
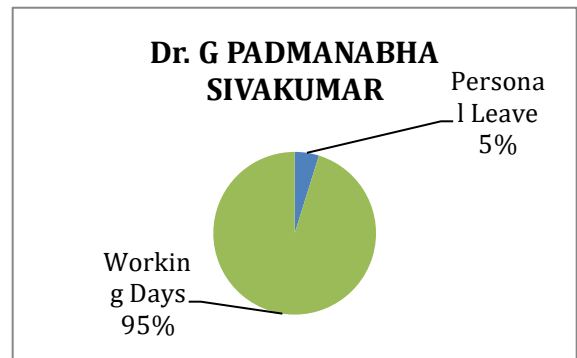
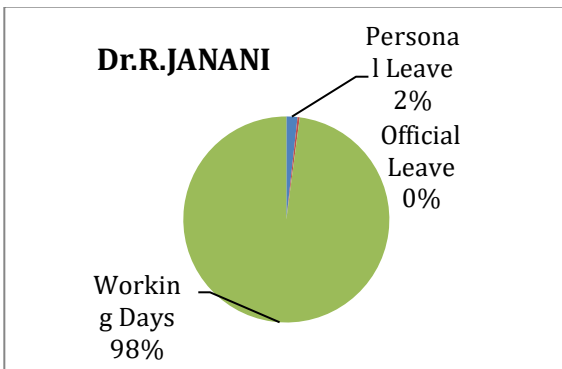
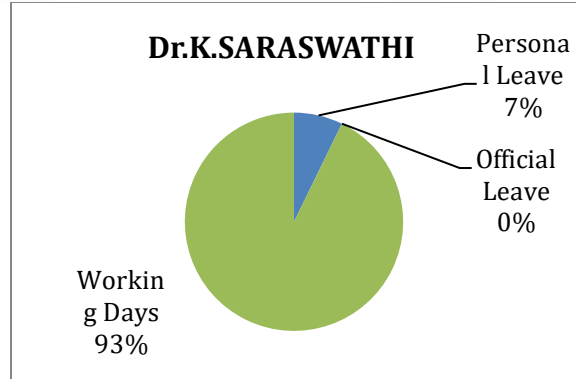
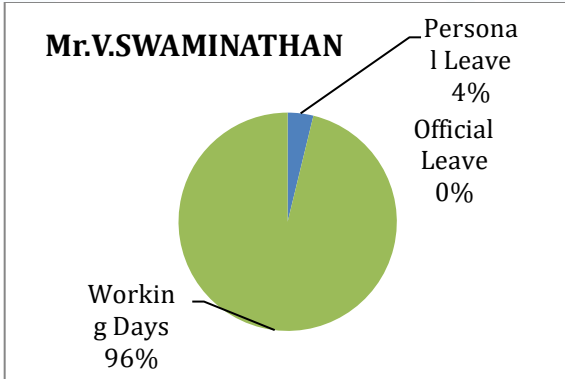
**TOTAL LEAVE AVAILED BY THE STAFF**

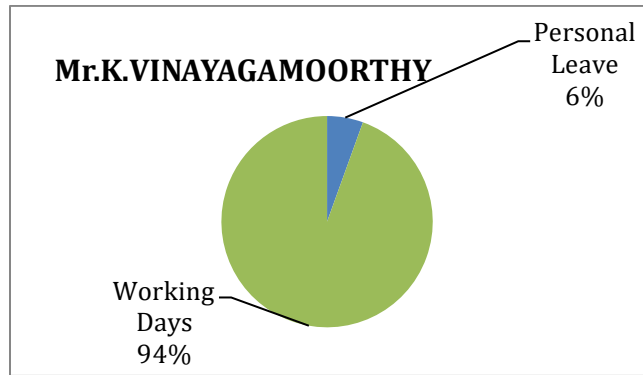
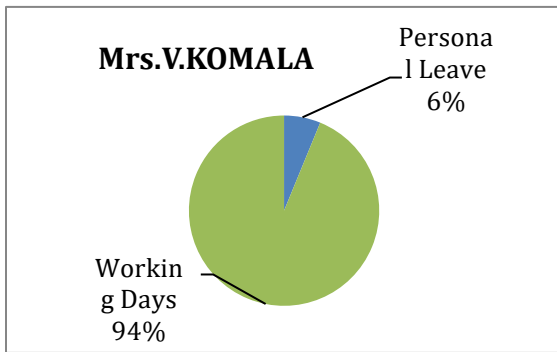
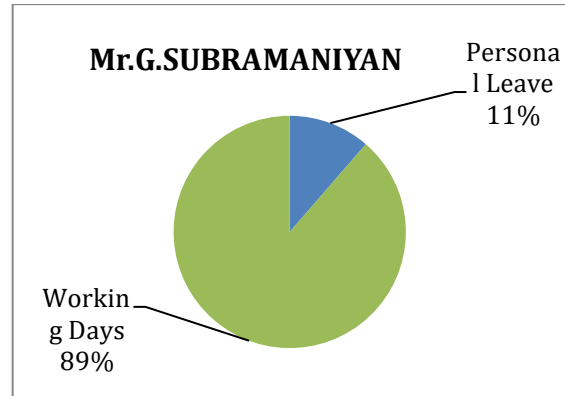
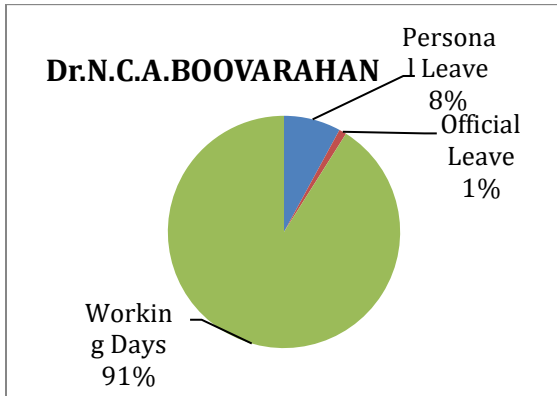
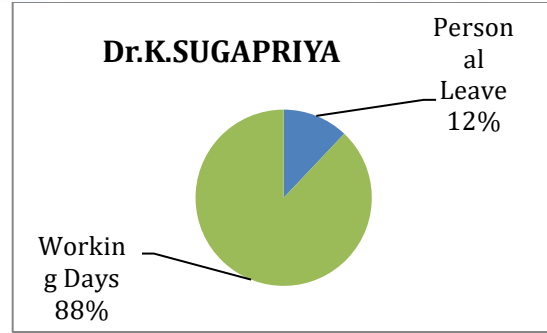
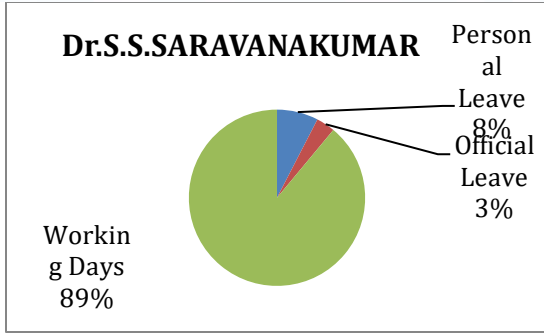




## Total Leave Availed by the Faculty









## 28. WORK ALLOTMENT DETAILS

Academic Year – 2022 -2023

Proposed Faculty Workload For Even Semester 2022-23				
S.N O	FACULTY NAME	WORKLOAD		
		THEORY	LAB	TOTAL
1	Mrs. K. Saraswathi	Linear Integrated Circuits	PLC Lab	2T+1L
		PLC & Data Acquisition System		
2	Dr. T. Sundar	Biomedical Instrumentation	Process Control Lab	2T+1L
		Digital Electronics		
3	Dr. R. Janani	Microprocessor & Microcontroller (CSE)	Microprocessor & Microcontroller Lab (CSE)	1T+1L
4	Dr. T. Lakshmibai	Principle of Communication	Microprocessor & Microcontroller Lab (CSE)	2T+1L
		Electronics (MSc Physics)		
5	Dr. S. S. Saravana Kumar	NANO Technology	Project Work Phase- II	2T+1L+1P
		Embedded System	LIC & Digital Electronics Lab	
6	Mrs. K. Sugapriya	Microprocessor & Microcontroller	Microprocessor & Microcontroller Lab	2T+1L
		Digital Electronics (BSc Physics)		
7	Dr. N. C. A. Boovarahan	IoT in Automation		3T
		Principles of Management & Professional Ethics		
		Basic Electronics Engineering (Mechanical)		



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### Academic Year – 2022 -2023

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

**HOD/EIE**



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## 29. MENTOR LIST

From,

Mr.V.Swaminathan,

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 2022-23 is as follows

Programme Code & Programme Name	B.E – Mechatronics
Number of students assigned to each mentor	4
Number of mentors	7

The complete list of mentors and students assigned to each mentor for the academic year 2022-2023 is enclosed.

Details



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Mentor-Mentee List

2022-2023

S.No	Reg.No	Mentees	Mentors
1.	11199H001	Aduri Hari Datta Raja Ram	Dr.K.Saraswathi
2.	11199H002	Appikatla Vijay	
3.	11199H003	Avinash T V S	
4.	11199H004	K Baavesh Reddy	
5.	11199H005	Barath Kanna S	Dr.Janani.R
6.	11199H006	Devanand R	
7.	11199H007	Dineshkumar K	
8.	11199H008	Gangaraju Lohith Kumar	
9.	11199H009	Gundampati Sri Durga Rajeswari	Dr.S.S.Saravana Kumar
10.	11199H010	Hari Ramanan S	
11.	11199H011	Jambula Jaya Surya Reddy	
12.	11199H012	Ketagani Sai Kalyan	
13.	11199H013	Manu Mahaadev G	Dr.K.Sugapriya
14.	11199H015	Sakthivel P	
15.	11199H016	Shaik Yaseen	
16.	11199H017	Shrinivas A	
17.	11199H018	Singamsetti Chaitanya Venkat	Dr.N.C.A.Boovarahan
18.	11199H019	Srihari B R	
19.	11199H020	Thamarai Selvan D	
20.	11199H021	Vuppala Abhinav Kumar	
21.	11199H022	Venkat Achyuth Mantrala	Dr.T.Lakshmibai
22.	11199H023	Gurram Sai Sandeep	
23.	11209H001	Raghul .V	
24.	11209H002	Kudaravalli Venkata Sai Lakshman	



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25.	11219H001	P Anantha Padmanabban	Dr.T.Sundar
26.	11219H002	Chittaluri Sai Phanichandra	
27.	11219H003	Dhullipalla Datta Sai	
28.	11219H004	Sri Sai Shravani Voleti	
29.	11229H001	N Tirumala Hardhik Srivatsa	
30.	11229H002	Sudhan G	

**HOD/EIE**

**V.SWAMINATHAN**





### 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	



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Enathur, Kanchipuram - 631 561.



113.	Students profile/ EIE & Mechatronics- (2017-2021 batch)		3	
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श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः  
(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

**SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA  
(SCSVMV)**

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## 31. APPENDIX

### APPENDIX - 1

**SRI CHANDRASEKHARENDRASARASWATHI  
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**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



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(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

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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.



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## APPENDIX - 2

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



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[www.kanchiuniv.ac.in](http://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/-
<b>Total Fees</b>	<b>Rs. 12000/-</b>	<b>Rs. 9000/-</b>	<b>Rs. 4000/-</b>

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/-
<b>Total Fees</b>	<b>Rs. 59,000/-</b>	<b>Rs. 47000/-</b>	<b>Rs. 32000/-</b>

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



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INTELLIGENT SYSTEMS AND APPLICATIONS IN  
ENGINEERING

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Original Research Paper

### Tuning of PID Controller Using Hybridized Modified Firefly-Chaos Algorithm in Industrialized Polymerization Reactors

Saraswathi K<sup>1\*</sup> and Vijayaraghavan S<sup>2</sup>

Submitted: 10/08/2022 Accepted: 20/12/2022

**Abstract:** PID controllers are most extensively employed in the process industry today, despite their age. The advantages of PID controllers are their straightforward design, excellent stability, and greater amount of dependability. The precise and reliable tuning of variables is an essential facet of PID controllers. Throughout this regard, genetic algorithms were used to tune the parameters in PID controllers. A methodical approach of multi-loop PID control over multivariable operations that concurrently achieve specific goals is now a hard process. For multi-loop PID controllers, this paper presents a novel hybridized modified firefly-chaos algorithm (HMFCFA). Using the typical behavior of firefly flashing properties, the firefly algorithm is infused a metaheuristic optimization technique. A multi-loop multivariable PID architecture for such an industrial-scale polymerization reactor is used to evaluate the efficiency of the suggested PID control architecture. An appropriate set of PID parameters could be determined using the suggested HMFCFA, according to simulated data. A comparative analysis of existing PID controller tuning algorithms with the HMFCFA algorithm is also shown and addressed in the paper.

**Keywords:** Control System, HMFCFA, Industrial Polymerization Reactor, PID Controller, Tuning

#### 1. INTRODUCTION

Proportional Integral Derivative (PID) controllers were widely used in industries for operational control purposes for a long time. In the industrial management, production, automation, and aerospace industries, feedback control techniques have made a significant influence throughout time. Along with the fractional (PID) controller, other effective, reliable, and responsive controllers were presented. However, PID controllers have unparalleled and superior acceptability and reuse in control applications. Depending on the needs of the process, PID control systems can be developed or used in a variety of ways, including progressive alone proportional- P-mode and integral I-mode, and derivative D-mode and Proportional, Integral, and derivative (PID mode).

Feedback controllers have long had the traditional and significant feature of controller tuning (Joseph et al. (2022)). In the field of automated control, PID controllers have a brief record. The reviewers are only considered controllers with proportionate control schemes in contemporary terminology, as opposed to actual regulators, who are considered regulators with both proportionate and integral controlling activities. The derivatives of the error's present speed of change is then theoretically analyzed. Due to employee resistance, PID was first ignored by naval commanders. PID's contribution was to help the eventual development of contemporary PID processes. Meanwhile, the "Telescope" pneumatic regulator was completely rebuilt and launched by the Sixth Equipment

Company in 1939. In addition to proportionality and reset control schemes, this new gadget also established the "pre-act" action. Later trends of study have concentrated more on PID control tuning, including self-tuning and automatic tuning (Borise et al. (2021)). Figure 1 depicts the application of the PID controller.



Figure 1: Application of PID controller in industries

Biochemical and computer technology are credited to create the procedure control system (PCS). System regulation suffers in the capacity to observe and modify a process in order to produce the intended result. It is applied in business for manage value and enhance appearance. The Proportional Integral Derivative (PID) control method can be employed in process control systems to provide the desired output. The PID controller was employed by the most of process control systems due to its simple design, ease of implementation, and

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## Fuzzy Logic Controller Design And Simulation For Industrial Application

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<sup>1</sup>Research scholar, Department of EEE

<sup>2</sup>Assistant Professor, Department of ECE

Sri Chandrasekharendra Saraswathi Visha Mahavidyalaya, Enathur, Kanchipuram

### Abstract

Liquid flow control is a vital requirement in many industrial processes. This essay compares the proportional derivative controller, the traditional PID controller, and the fuzzy logic controller for fluid flow. This study compares the performance of proportional derivative, conventional PID controllers, and fuzzy logic controllers using MATLAB. The comparison of various time domain parameters shows that the fuzzy logic controller performs more quickly and with less overshoot than PID and PD controllers. The most used control approach in industry is the PID controller. PID controllers' widespread use can be attributed in part to their dependable performance and in part to how straightforward their functional design is. The oscillating behaviour of the PID controller in this study harms the system. However, the fuzzy logic controller's response is free of these risky oscillations during the transient phase. As a result, the fuzzy logic controller is superior to the PID controller that is typically utilized.

**Keywords:** Fuzzy Logic Controller, PID, Matlab/ Simulink

### I. Introduction

For many industrial operations, flow control is essential. Chemical industry regulation keeps the regulated variables under control. In this study, we use three different methods to control the flow: PD, PID, and FLC. One of the earliest control strategies is PD and PID control [1]. Although PID and PD controllers have basic control structures that are straightforward to grasp, they do not respond quickly. Utilizing fuzzy logic controllers, we are able to solve these issues. Utilizing MATLAB and simulink, performance analysis of PID, and FLC has been carried out.

### II. DESIGN CONSIDERATION

#### 2.1 DESIGN OF PID CONTROLLER

PID controllers are easy methods that are frequently utilized in industrial control [4]. A higher order system is being constructed with a PID controller. The PID Controller's simulink diagram with unity feedback is shown in Fig. 1. PID controllers are an easy method that are frequently utilized in industrial control [2]. A higher order system is being constructed with a PID controller. The PID Controller's simulink diagram with unity feedback is shown in Fig. 1.



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### DESIGN OF FRACTIONAL - ORDER PI CONTROLLER FOR MULTIVARIABLE PROCESS

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**Abstract** This article presents design and analysis of fractional order PI controller for a pilot plant binary distillation column. Design of controller for a multivariable (multi-input multi-output – MIMO) process is a challenging task due to loop interaction and system with dead time. The first order model with dead time (FOPDT) model is obtained for the overall open loop transfer function of the system. This work aims on the comparative study of one conventional controller along with fractional order controller based on the performance measures for a pilot plant binary distillation column.

**Keywords:** Decentralized controller; MIMO process; Fractional - order PI controller.

#### INTRODUCTION

In most of the chemical industries the process are multiple input and multiple output process. The most important feature of the multivariable systems is the interactions between its variables or cross couplings. Therefore, systems with multiple actuating control inputs and process outputs are defined as multi-input multi-output (MIMO) systems. Due to the presence of the loop interactions in the multivariable system, the closed loop control system designed should be strong and efficient. The interactions that are due to the change in one input affect many output variables. The appropriate pairing of input and output using suitable loop pairing techniques could minimize the adverse interactions. There are a lot of methods for controller design. Fractional - order PID controllers are very useful one, because it gives more possible sets of controller parameters between an integer degrees of controller terms [1-5]. Various tuning rules are given in [6,7]. Many researchers deal with already known methods for PID controller design in combination with fractional-order ones [8-10]. Distillation is a process in which a liquid or vapor mixture of two or more substances is separated into its component fractions with desired purity. In multi loop control, the MIMO processes are treated as a collection of multi single loops and a controller is designed and implemented on each loop by taking loop interaction into account. For the MIMO processes with severe loop interactions, the decoupling control schemes are often preferred. Due to that, in recent years numerous investigations aim to develop fractional order PID controller for MIMO process [11-17]. The paper is organized as follows. After Introduction in this section, Section 2 gives design methodology for fractional order PID controller and Gain margin-phase margin controller design methodology. Section 3 represents the design and simulation of PID controller, i.e. its shorter variant



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Chennai, India, 23 April 2022.  
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## SIMULATION STUDIES OF INVERTED DECOUPLING CONTROL ALGORITHM ON A NON-SQUARE PILOT PLANT DISTILLATION COLUMN

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The inverted decoupling-based controllers for a time delay multivariable non-square systems is a challenging task. In this case study, a controller is designed on the basis of the inverted decoupling structure for a highly interactive lab scale batch distillation process. The centralized inverted decoupling controller is divided into two sub sections, one on the forward path and the other in the feedback path. The main objective is to achieve a decoupled dynamic behaviour characteristic of each loop. The square distillation column model in literature generally uses the heater current and reflux as the two manipulated variables, in the modified lab scale distillation column, the authors have considered the third manipulated variable for the restriction of coolant flow rate to the condenser. The mathematical model used in the simulation study is process with three inputs and two outputs is considered for parameter estimation and simulation studies followed by the validation of control algorithms on a lab scale distillation unit to show the effectiveness of the proposed control algorithm.

### 1. Introduction

In most of the petrochemical industries, due to the presence of several process parameter measurements and its control the real processes are MIMO (Multiple Input and Multiple Output). A system is said to be a square system, when the system has same quantity of input, outputs. On the other hand, when the quantity of inputs and outputs are different the system non-square. Because of the structural characteristics, the existing conventional control algorithms cannot be used for the such system. In conventional method, the pseudo-inverse of the steady state gain matrix of the process, the two-mode controller is designed. The determination of inverse matrix and adjoint matrix leads to the complexity in obtaining the decoupling elements in ideal and simplified decoupling methods.

Section 2 provides a brief summary on system overview and experimental setup, the design of inverted decoupler. Section 3 explains the design of inverted decoupler and the expression for centralized two-mode controller. Section 4 shows the obtained results of the designed controller based on inverted decoupling for the lab scale batch distillation column.

### 2. Experimental Setup

Distillation a process of separation based on the boiling points and volatility of two or more components, widely used in petrochemical industries. The combination of isopropyl alcohol and water fed in to the pilot plant binary distillation column is considered here in this work. The



CER: NORMAL UNIVERSITY OMEGA BLVD, CERU CITY, 6000 PHILIPPINES 4TH INTERNATIONAL CONFERENCE OF ARTS AND SCIENCES SEPTEMBER 21-22, 2022 CERU NORMAL UNIVERSITY

## ***NUCLEAR POWER PLANTS IN INDIA: ACHIEVING CLEAN AND GREEN ENERGY - REVIEW***

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**Abstract**— With the increasing demand in electricity and rising temperature of Earth due to global warming, nuclear power plants can address the current needs. Development in the realm of nuclear energy has become a necessity in order to fulfill the present need. The present paper will summarise the basic knowledge regarding the nuclear power plant and current status of nuclear energy in India. Moreover, the paper presents some limitations to nuclear energy. This review paper will be helpful for the beginners in the field of nuclear power plant.

**Keywords**— nuclear power plant, nuclear energy, India's nuclear power program, India's nuclear energy limitations

### I. INTRODUCTION

The first time electricity generates ever on September 3, 1948 at the X-10 Graphite Reactor in Oak Ridge, Tennessee in the United States, and was the first nuclear power plant to power a light bulb. In Nuclear [1] power plant, nuclear reactor is the heat source which used to generate steam which drives from the steam turbine connected to an electric generator which produces electricity. In nuclear power plant enormous amount of heat is released, even the splitting of radioactive atoms emblematically uranium, to induce power and supreme electricity. Nuclear energy is attracting new interest around the world as countries look for low-carbon alternatives to fossil fuels to increase the diversity of their sources of energy and improve security of supply. The nuclear reactor provided the one sixth of electricity of actual needs. Mainly nuclear reactor was built in seventies and eighties. These nuclear reactors were known as first and second generation nuclear reactors. Third generation nuclear reactor were developed in nineties had some advance technology than previous one. Now days effort is Underway on the fourth generation, which improve use of natural resources and produce very less radioactive waste. India leads to increase the nuclear power strength

grooming year by year till 2017, there are 21 working reactor and 7 nuclear power plant.

### List of Nuclear Power Plants in India for General Awareness

Do you know which the Oldest Nuclear Power Plant in India is? Tarapur Atomic Power Plant-1 (TAPS-1) is the first and the oldest Nuclear Power Station in India.

### II. ROUTE MAP FOR NUCLEAR POWER PLANT IN INDIA

#### A. Nuclear Power Plants in India - Operational

The table 1 seven sites of Nuclear Power Plants in India as shown in them.

Table - 1 Seven sites of Nuclear Power Plants in India

Nuclear Power Plants in India - Operational			
Name of Nuclear Power Station	Location	Operator	Capacity
Tarapur Atomic Power Station - 1 (TAPS-1)	Surat	NPCIL	440
Polkapuram Atomic Power Station - 1984	Tamil Nadu	NPCIL	440
Madra Atomic Power Station - 1981	Uttar Pradesh	NPCIL	440
Rajpi Nuclear Power Plant - 2008	Karnataka	NPCIL	880
Rajasthan Atomic Power Station - 1977	Rajasthan	NPCIL	1,100
Tarapur Atomic Power Station - 200	Madhya Pradesh	NPCIL	1,400
Kudankulam Atomic Power Plant - 2013	Tamil Nadu	NPCIL	2,000





International virtual Conference on Progress in Mathematics towards Industrial Applications (PMTIA-2022)  
DEPARTMENT OF MATHEMATICS, SRM Institute of Science and Technology Ramapuram Campus

## RENEWABLE ENERGY SOURCE DESIGN STUDY

Dr. T. Sandar

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**Abstract**—The requirement of renewable energy source is the vital need in the pandemic situation caused in the world. There is a need to control pollution caused by the non-renewable sources used to overcome the economical development. In this constraint there is a need to develop and design many more renewable source models of equipment used in the real time to achieve the needs of the public. Here a brief review on the existing renewable energy sources developed is discussed and comparative study with its economical benefits was analyzed. The importance of renewable energy source should be extended to make the world with prosperity and natural living mode. To fulfill this criteria more and many optimal designs of renewable energy sources should be developed.

**Keywords**— Renewable energy; Optimization model; Sustainability

### 1. INTRODUCTION

The world energy requirement depends to a large extent on liquid petroleum. Estimates indicate the earth's oil resources range from  $1.75 \times 10^6$  to  $2.3 \times 10^6$  (Baberufi and Focacci, 1999). Though only about one-fifth of the reserve has been extracted and consumed, yet a pessimistic picture indicate that 50% of the reserve would be consumed, shortly after the turn of the century (WEC, 1998). And more so, increased utilization using commercial sources in a highly populated country like India and China, result in a considerable amount of emission. To avert the negative impact of commercial energy source utilization, alternate sources need to be identified. India, a tropical country with a vast geographical area is richly endowed with renewable energy sources like solar, wind, and biomass. The contribution from renewable energy sources was around 85% during the early 1950s. Over the years, renewable energy consumption has been steadily declining and in 1997/1998, the contribution from renewable energy sources was around 35%. Forests deflated as woodlands with more than 10% crown cover occupy about 20% of the Indian land area. Deforestation has led to a major decline. About one-fifth of the forests standing today are extremely degraded. Half a million hectares or 0.8% of total forest area was deforested in 1986. To counteract this, India has a rapidly growing afforestation programme. The afforestation activities resulted in a total

of 11.5 million hectares as of 1998. An- after 5.8 million hectares were afforested between 1986 and 1989 raising the total planted area to 17.1 million hectares. This could be one reason for the declining trend in renewable energy utilization. The other reasons being ready availability of the commercial sources at a subsidized rate, easy maintainability and continuous supply. If the present trend continues, it is expected that by 2020/2021, the contribution from renewable energy sources would be only 35%. Attempts are being made to find strategies for increased utilization of renewable energy sources. The India's Energy Challenge is shown in Figure 1.



Fig.1 India's Energy Challenge

### II. THE ENERGY SCENARIO IN INDIA

India, the seventh largest energy consumer in the world plans for major infrastructure investments to keep pace with the growing demand particularly for the electric power and for the imports of LNG to supply power projects. Oil accounts for about 30% of the total energy consumption. India's average oil production level for 1998 is estimated at 681,000 bbl/day (barrels per day). India imported around  $1 \times 10^6$  bbl/day of oil during 1998, which accounted for about 60% of the total oil consumption. Future oil consumption is expected to grow rapidly to around  $1.9 \times 10^6$  bbl/day by 2000, and  $3.1 \times 10^6$  bbl/day by 2010. India's oil import expenditure is expected to rise from  $35.9 \times 10^6$  during 1998/1999 to around  $57.9 \times 10^6$  during 1999/2000 due to rising imports and



## A Study of India's Renewable Wind Energy and its Challenges

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### ABSTRACT

The most crucial component of socioeconomic development and global economic expansion is energy. The important role that renewable energy sources may play is to reduce scarcity of energy by supplying this energy to the market which is abundant. These sources will promote energy independence while also meeting a number of other goals, such as reducing climate change, hastening the development of rural areas, enhancing health conditions, and being the finest means of achieving sustainable development. Nowadays wind power is a significant and expanding source of renewable energy. In electricity distribution networks, large wind turbines (with output of up to 6-8 MW) are frequently erected. Power transmission networks with a capacity of hundreds of megawatts are being directly connected to an increasing number of onshore and offshore wind farms that are serving as power plants. This paper provides a study of India's wind energy, wind turbine, blade design ideas and challenges in wind energy.

**Keywords:** Renewable energy, Turbine, Blade Design, Carbon Footprint, On-Offshore Wind Energy

### Introduction

With the usage of fossil fuels becoming more and more unsustainable and the resulting effects on the environment, wind energy has emerged as a stable, sustainable, and affordable source of energy. The energy produced by the wind is known as wind power. It is among the first energy sources that humans have used, and it is currently the most well-established and effective renewable energy source. The name of the mythological Greek character Aeolus, the guardian of the Winds, is the source of the academic term for wind energy, solar energy.

#### Wind Energy

- Clean and non-polluting fuel source
- No Water Required
- Offset Carbon Footprint
- Key Mitigation tool to reverse Climate Change
- Socio-economic growth enabler

#### Global Wind Day

Global Wind Day celebrated on 15th June 2023 by the Ministry of New and Renewable Energy (MNRE) with the theme of "PawanLoka: Powering the Future of India" in association with the Shakti Sustainable Energy Foundation, at I-Morden, New Delhi.



Fig 1. Wind farm



## DESIGN AND IMPLEMENTATION OF IOT BASED GARBAGE COLLECTING ROBOT

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**Abstract:** The world today faces a major garbage crisis and the product of rapid economic growth overcrowding, poor urban planning, pervasive corruption and political interruption the present tried and tested methods of garbage collection have so far been proven ineffective. And the world today is looking for a smarter way to overcome the garbage collection problems. This paper presents the Robotic Garbage collection for footpaths using an Arduino microcontroller. The Robot movement is controlled by Arduino programming. In the proposed method, the robot is design to collect garbage at footpaths, public places (parks, schools and colleges), beaches. The robot is built in such a way that, at the start it will move its arm to the down wards direction and when it encounters an obstacles, it will react depending on the conditions written in the program. The bot proceeds with further motion according to the program instructions to pick up the garbage, new advanced services based on the interplay between robots and things, are being conceived in assisting humans. As robots are used to help mankind in various environments, the robots and the internet of things are combined to achieve more than people think.

**Index Terms -** Garbage, Arduino UNO, Servo Motor, Bluetooth Module, Inductive Sensor, Robot, Lead Acid Battery

### I. INTRODUCTION

Nowadays, waste management is a big issue globally and it needs serious attention. There is no proper management of waste and garbage in rural and urban areas, which may cause a threat to health, security, hygiene, human safety and wildlife safety. Presently, the manual garbage collection system exists in most places, where human intervention is involved. Manual garbage collection and waste management is a good source to generate employment, but there are some issues associated with it, like sometimes there is the unavailability of manual labour for days, such as in maintaining railway tracks. There is a big concern about human safety.

The rate of increasing population in our country has increased rapidly and slow, there is an increase in garbage, which has increased environmental issues. These days robots are used in various work fields across the globe. They are used mainly in industries and manufacturing stations, but coming to garbage collection most power is doing almost all of the work using robots in this particular field can bring great change in many ways. Humans can get infected while working in any toxic place which may lead to casualty. As everybody knows these days during covid-19 garbage collection became a severe burden to frontline workers due to the spreading of the virus. Therefore, an idea raised in the mind is IOT based garbage collection robot which picks the waste and detects the nature of the picked material using a metal detecting sensor and separates the metallic and non-metallic waste. The metallic waste which is separated will be sent to recycling and the non-metallic waste will be disposed of safely. This saves humans from any danger that may occur in the garbage collecting process and as well as generating extra revenue can be done by metal recycling.

### II. PROPOSED SYSTEM

The proposed model concept is represented that the robot is operated using an android mobile phone or a laptop. The WIFI module is interfaced with Arduino to control the robot using a mobile from far away. Using ultrasonic sensors, obstacles or wastes are detected and the data is sent to an Arduino for processing. The trash is picked up by the robotic arm and the motion of the robotic arm is controlled by 4 servo motors. A metal sensor is used to detect whether the collected garbage is metal or non-metal. Using motor drivers, the rotational speed of motors is controlled for the movement of the robot as per requirement. The battery inside the robot provides the power needed for all the operations.



## Textile UWB 5G Antenna for Human Blood Clot Measurement

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**Abstract:** The antenna plays an essential role in the medical industry. The short-range 5<sup>th</sup> Generation (5G) communication can be used for seamless transmission, reception, patient monitoring, sensing and measuring various processes at high speeds. A passive Ultra Wide Band (UWB) antenna, used as a sensor in the measurement of Prothrombin Time (PT) i.e., blood clot is being proposed. The investigated micro-strip patch UWB antenna operating in the frequency range of 3.1 to 10.6 GHz consists of a circular patch with a diamond-shaped slot made of jeans substrate material with good sensing properties is accomplished by adjusting the copper thickness of the patch. Due to the turbidity in blood plasma, PT measurement is the repetitive approach to get accurate value. In order to solve this issue, an antenna is designed, fabricated and analysed to obtain the accurate PT measurements from blood plasma. The blood clotting is observed by electromagnetic emitted voltage converted into the frequency range of 5 to 10 GHz and voltage range of 0.66 to 0.87 mV. The circular UWB antenna is constructed employing jean's substrate with a partial ground plane to improve the S-parameter, gain,

## Triple band U-Shaped slot UWB Antenna as a Wireless Sensor for Communication

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### Abstract

### Abstract:

### Document Sections

I. Introduction

II. Antenna Design

III. Result and

Wireless communication plays a fantastic role in the digital world. The Ultra-Wide Band (UWB) Micro strip Patch Antenna (MPA) carries very essential task in the digital communication. The patch antenna consists of compact size, less weight, better return loss and good gain. The proposed U-shaped slot ultra-wideband antenna was designed for wireless sensor application and it operates in triple-band frequencies. The spectrum sensing progression can be obtained for three different frequencies in the proposed design. The material chosen for the



## Car Parking and Booking System Based on IOT

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### ABSTRACT

Due to the lack of accurate information about whether the available parking space is full or empty, large cars are now having difficulty locating a spot to park. This might result in a blockage, contamination, and fuel failure all at once. These circumstances may make it difficult to regulate the halting of the board as well. Stopping problems are frequently resolved by using a microcontroller-based smart stopping system (provided IoT). The Web of things may be a novel topic that plays a significant role in our daily life. Because of human negligence, IoT reduces human work, effort, time, and blunders. An embedded Internet of Things (IoT) smart parking system is then suggested in order to make it easier for halting clients to encourage data on the stockpile of vacant spaces and filled parking places and may also reserve parking spaces using digital tools. A microcontroller-based Smart Parking System must go through a number of stages, including frameworks for prerequisites, prototype development, prototyping evaluation, writing, testing, and assessment framework. This approach makes use of tools like the Arduino-UNO, Wi-Fi module, LCD to display available stopovers and confirmation of reservations, and infrared sensors that are used at each press stop and indicate the space accessibility. In order to make the Smart Parking Application more effective as intended and to better manage stopping the board, it is anticipated to assist administration customers in finding information and void stopping opportunities by booking inside the application.

### INTRODUCTION

It is expected that the operator has a smartphone, has downloaded the Android app, and has access to the internet. The transition to smart parking is indeed a great illustration for the ordinary individual of how the IOT can be employed successfully and efficiently in daily life. It offers various benefits to various users. The car parking lot gateway control and payment system is where RFID is most frequently employed. Billing automatically.

Due to the lack of accurate information about whether the available parking space is full or empty, large cars are now having difficulty locating a spot to park. This might result in a blockage, contamination, and fuel failure all at once. These circumstances may make it difficult to regulate the halting of the board as well. Stopping problems are frequently resolved by using a microcontroller-based smart stopping system (provided IoT). The Web of things may be a novel topic that plays a significant role in our daily life.

Because of human negligence, IoT reduces human work, effort, time, and blunders. An embedded IoT smart parking system is then suggested, which is made to make it easier for stopping customers to encourage information on the stockpile of empty and full stopping spaces and can also book stopping openings using electronic applications. A microcontroller-based Smart Parking System must go through a number of stages, including frameworks for prerequisites, prototype development, prototyping evaluation, writing, testing, and assessment scale.

This approach makes use of tools like the Arduino-UNO, Wi-Fi module, LCD to display available stopovers and confirmation of reservations, and infrared sensors that are used at each press stop and indicate the space accessibility. In order to make the Smart Parking Application more effective as intended and to better manage stopping the board, it is anticipated to assist administration customers in finding information and void stopping opportunities by booking inside the application.