



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
SRI CHANDRASEKHARENDRASARASWATHI
VISWA MAHAVIDYALAYA

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



Electronics
& Instrumentation Engineering

DEPARTMENT PROFILE

2020-2021





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(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

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DEPARTMENT
OF
ELECTRONICS AND INSTRUMENTATION ENGINEERING

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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 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, Guest lecturers are arranged to improve the skills of the students in various domains. During September 15th, Engineers’ day is celebrated every year by inviting industrial experts to share their experience and ideas.

- **Program Educational Objectives**

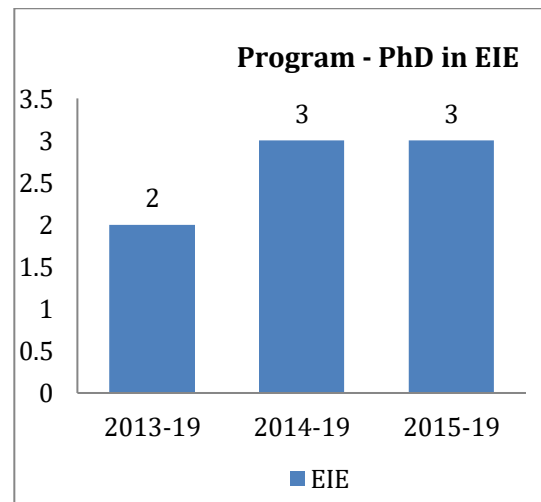
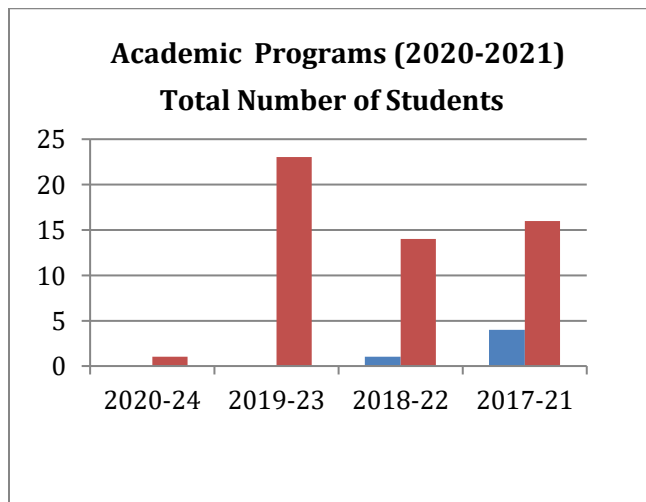
1. To design, develop product and application with multidisciplinary engineering expertise.
2. To use latest engineering tools to enhance the productivity in the field of automation.
3. Complex problem solving skill to innovate and research by applying multi-disciplinary environment (mechanical, electrical,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



4. ACADEMIC PROGRAMS (2020-2021)

PROGRAM	SANCTIONED STRENGTH	YEAR		TOTAL NUMBER OF STUDENTS STRENGTH
UG EIE	05	I	2020-24	Nil
		II	2019-23	Nil
		III	2018-22	01
		IV	2017-21	04
UG MECHATRONICS	53	I	2020-21	01
		II	2019-23	22
		III	2018-22	14
		IV	2017-21	16
RESEARCH (Ph.D in EIE dept)	08	-	2013-19	02
		-	2014-19	03
		-	2015-19	03

ACADEMIC PROGRAMS (2020-2021)





5.CURRICULUM

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

COURSE	LABORATORY	ELECTIVE SUBJECTS
Electronics and Instrumentation Engineering	<ul style="list-style-type: none">● Electronic Devices and Circuits Lab● Microprocessor and Microcontroller Lab● Analog and digital communication Lab● Transducer and Industrial Instruments Lab● Virtual Instrumentation Lab/Computer Control Lab● Industrial Process Control Lab	<ul style="list-style-type: none">● Analog Communication● Power Plant Instrumentation● Analytical Instrumentation● Fiber optics and Laser Instrumentation● Robotics and Automation● Advanced Control System● Digital Communication● Embedded Systems● Programmable Logic Controller● Wireless Sensor Network● Neural Network and Fuzzy Logic Network● Virtual Instrumentation● Computer Aided Instrumentation● Instrumentation and control in Iron and Steel Industries● MEMS and Nano Technology● Instrumentation and control in Petro Chemical Industries● Instrumentation and control in Food Processing● Nuclear Instrumentation● Machine Vision● Aircraft Instrumentation● Bio Medical Instrumentation



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COURSE	LABORATORY	ELECTIVE SUBJECTS
Mechatronics Engineering	<ul style="list-style-type: none">● Electronic Devices and Circuits Lab● Microprocessor and Microcontroller Lab● Analog and digital communication Lab● Transducer and Industrial Instruments Lab● Virtual Instrumentation Lab/Computer Control Lab● Industrial Process Control Lab	<ul style="list-style-type: none">● Theory of Machines● Metrology and Measurements● Refrigeration and AirConditioning● Internal Combustion Engines● Machine Design● Finite Element Analysis● Design of Jigs and Fixtures● Rapid Manufacturing Technology● CIM● Process Planning and Cost Estimation● Mechanical Vibration and noise control● Machine Vision● Autotronics● Design of Mechatronics Systems



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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**	Total quality Management	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	Principle of Management and Professional Ethics	PEC 4**	OEC 4**
	Programming for Problem Solving		Electrical Measurements	Thermodynamics	Technical Programming Language	Microprocessor & Microcontroller	PEC 5**	
			Sensors and Actuator	Linear Integrated Circuits	Power Electronics and Industrial Drives	Industrial Chemical Process	OEC 3*	
			Object Oriented Programming Using C++	Digital Electronics	Power Plant Instrumentation			
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	Industrial and Process Control 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	Technical Programming Language Lab	Mini project / Innovative Design Lab	Advanced Instrumentation Lab	

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



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BIRDS EYE VIEW – EIE CURRICULUM

Electronics and Instrumentation Engineering – 2014 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 1	English 2	M -3*	M-4*	M-5*	Operation Research	VLSI Design	Robotics and Automation
	M-1*	M-2*	Principles of Communication	Linear Integrated Circuits	Control Systems	Microprocessor and Microcontroller	Principles of Management and Professional Ethics	Biomedical Instrumentation
	Engg. Physics	Engg. Chemistry	Electronic Devices and Circuits	Industrial Instrumentation	Digital Signal Processing	Process Control Instrumentation	Embedded systems	Elective -3
	Basic Electrical and Electronic Engineering	Basic Civil and Mechanical Engineering	Sensors and Transducers	Digital Electronics	Power Plant Instrumentation	Industrial Chemical Process	Computer Control of Process	Elective -4
	Computer Programming	Electric Circuit Theory	Electrical Engineering	Signals and Systems	Power Electronics and Drives	Analytical Instrumentation	Elective -1	Project Work Phase 2
		Environmental Science and Engg.	Object Oriented Programming using C++	Measurement and Instrumentation	Thermodynamics and Fluid Mechanics	Fiber Optics and Laser Instrumentation	Elective -2	
Lab	Engineering Graphics	Chemistry Lab	Electronic Devices and Circuits Lab	Linear Integrated Circuits and Digital Lab	Control System Lab	Microprocessor & Microcontroller Lab	Virtual Instrumentation Lab	
	Physics Lab	Circuit Theory Lab	Electrical Engineering Lab	Measurement and Instrumentation Lab	Thermodynamics and Fluid Mechanics Lab	Simulation Lab	Computer Control Lab	



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	Computer Programming Lab	Basic Mechanical Workshop	Object Oriented Programming using C++	Transducers and Industrial Instruments Lab	Power Electronics and Drives Lab	Industrial and Process Control Lab	Project Work Phase 1	
	Basic Electrical Workshop							

***M –Mathematics**



**SEMESTER WISE STRUCTURE OF CURRICULUM
2018 ONWARDS**

(L- Lecture, T- Tutorial, P- Practical and C-Credit)

COURSE: Electronics and Instrumentation Engineering

I Semester

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

II Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	BSC	Mathematics 2	3	1	-	4
2	BSC	Engineering Chemistry	3	-	-	3
3	BSC	Chemistry Lab	-	-	3	2
4	ESC	Basic Electrical Engineering	3	-	-	3
5	ESC	Basic Electrical Engineering Lab	-	-	3	2
6	ESC	Engineering Graphics and Design	-	-	3	3
7	MC*	Environmental Science and Engineering	2	0	0	2*
		TOTAL	11	1	9	17+2*



III Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	BSC	Mathematic 3	3	1	-	4
2	ESC	Object Oriented Programming using C++	3	-	-	3
3	ESC	Object Oriented Programming using C++ Lab	-	-	3	2
4	PCC	Electronic Devices and Circuits	3	-	-	3
5	PCC	Signals and Systems	2	1	-	3
6	PCC	Electrical Measurements	3	-	-	3
7	PCC	Sensors and Actuators	3	-	-	3
8	PCC	Electronic Devices and Circuits Lab	-	-	3	2
9	PCC	Electrical Measurements Lab	-	-	3	2
10	MC*	Sanskrit and Indian Culture	2	-	-	2*
11	MC*	Soft Skills 1	-	-	-	1*
		TOTAL	19	2	9	25+3*

IV Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	ESC	Thermodynamics	3	-	-	3
2	ESC	Thermal Engineering Lab	-	-	3	2
3	PCC	Digital Signal Processing	2	1	-	3
4	PCC	Industrial Instrumentation	3	-	-	3
5	PCC	Principles of Communication	3	-	-	3
6	PCC	Linear Integrated Circuits	3	-	-	3
7	PCC	Digital Electronics	3	-	-	3
8	PCC	Linear Integrated Circuits and Digital Electronics Lab	-	-	3	2
9	PCC	Transducers and Industrial Instruments Lab	-	-	3	2
10	MC*	Soft Skills -2	-	-	-	1*
		TOTAL	17	1	9	24+1*



V Semester

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

VI Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PEC	Professional Elective 2	3	-	-	3
2	OEC	Open Elective 2	3	-	-	3
3	HSMC	Principles of Management and Professional Ethics	3	-	-	3
4	PCC	Microprocessor and Microcontroller	3	-	-	3
5	PCC	Industrial Chemical Process	3	-	-	3
6	PCC	Microprocessor and Microcontroller Lab	-	-	3	2
7	PCC	Industrial Process Control Lab	-	-	3	2
8	PCC	Mini Project /Innovative Design Lab	-	-	-	2
9	MC*	Soft Skills -4	-	-	-	1*
		TOTAL	15	-	6	21+1*



VII Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	HSMC	Total Quality Management	3	-	-	3
2	PEC	Professional Elective 3	3	-	-	3
3	PEC	Professional Elective 4	3	-	-	3
4	PEC	Professional Elective 5	3	-	-	3
5	OEC	Open Elective 3	3	-	-	3
6		Internship and Industrial Visit	-	-	-	3
7		Project Work Phase -1	-	-	-	2
8	PCC	Advanced Instrumentation Lab	-	-	3	2
		TOTAL	15	-	3	22

VIII Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PEC	Professional Elective 6	3	-	-	3
2	PEC	Professional Elective 7	3	-	-	3
3	OEC	Open Elective 4	3	-	-	3
4		Project Work Phase -2	-	-	-	10
		TOTAL	9	-	-	19

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



PROFESSIONAL ELECTIVE COURSES

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PEC	Analog and Digital Communication	3	-	-	3
2		Process Control Instrumentation	3	-	-	3
3		Analytical Instrumentation	3	-	-	3
4		Fiber optics and Laser Instrumentation	3	-	-	3
5		Robotics and Automation	3	-	-	3
6		Advanced Control System	3	-	-	3
7		Automotive Instrumentation	3	-	-	3
8		Embedded Systems	3	-	-	3
9		Programmable Logic Controller	3	-	-	3
10		Wireless Sensor Network	3	-	-	3
11		Neural Network and Fuzzy Logic Network	3	-	-	3
12		Virtual Instrumentation	3	-	-	3
13		Computer Aided Instrumentation	3	-	-	3
14		Instrumentation and control in Iron and Steel Industries	3	-	-	3
15		MEMS and Nano Technology	3	-	-	3
16		Instrumentation and control in Petro Chemical Industries	3	-	-	3
17		Instrumentation and control in Food Processing	3	-	-	3
18		Nuclear Instrumentation	3	-	-	3
19		Machine Vision	3	-	-	3
20		Aircraft Instrumentation	3	-	-	3
21		Bio Medical Instrumentation	3	-	-	3
22		Instrumentation and control in Paper Industries	3	-	-	3
23		Optimal Control	3	-	-	3



OPEN ELECTIVE COURSES

S.No	Subject Category	Name of the Subject	L	T	P	C
1	OEC	Disaster Management	3	-	-	3
2		Entrepreneur Management	3	-	-	3
3		Radar and Navigational Aids	3	-	-	3
4		Introduction to Scilab Programming	3	-	-	3
5		Information Technology for Office Automation	3	-	-	3
6		Contributions of Ramanujam in Mathematics	3	-	-	3
7		Vedic Mathematics	3	-	-	3
8		Cyber Literature	3	-	-	3
9		Renewable Energy Sources	3	-	-	3
10		Basic Principle of Marine Vehicle Design	3	-	-	3
11		Marine Pollution and Biological Solutions	3	-	-	3
12		Refrigeration and Air Conditioning	3	-	-	3
13		Python Programming	3	-	-	3
14		Introduction to IoT	3	-	-	3
15		Organizational Behavior	3	-	-	3
16		Cryptography and Network Security	3	-	-	3
17		Electric Vehicle Technology	3	-	-	3
18		Advanced IoT Applications	3	-	-	3
19		Big Data Analysis	3	-	-	3



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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BIRDS EYE VIEW – MECHATRONICS CURRICULUM

Mechatronics Engineering– 2014 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 1	English 2	M -3*	M-4 *	M-5*	Operation Research	Embedded Systems	Machine Vision
	M-1*	M-2*	Manufacturing Technology for Mechatronics	Linear Integrated Circuits	Control Systems	Microprocessor and Microcontroller	PLC and Data Acquisition systems	Principles of Management and Professional Ethics
	Engineering Physics	Engineering Chemistry	Electronic Devices and Circuits	Industrial Instrumentation	Sensors and Actuators	Design of Machine Elements	Elective -1	Elective -3
	Basic Electrical and Electronic Engineering	Basic Civil and Mechanical Engineering	Material Science & Metallurgy	Digital Electronics	Theory of Machines	CAD & CAM	Elective -2	Elective -4
	Computer Programming	Electric Circuit Theory	Electrical Engineering	Mechanics of Solids and Fundamentals of Fluids	Power Electronics and Drives	Fluid Power Systems	Robotics and Automation	
		Environmental Science and Engineering	Object Oriented Programming using C++	Measurement and Instrumentation	Thermodynamics and Heat Transfer	Micro Electro Mechanical Systems - MEMS	Design of Mechatronics Systems	
Lab	Engineering Graphics	Chemistry Lab	Electronic Devices and Circuits Lab	Linear Integrated Circuits and Digital Lab	Manufacturing and Assembly Drawing	Microprocessor and Microcontroller Lab	Project Work Phase 1	Project Work Phase 2
	Physics Lab	Circuit Theory Lab	Manufacturing Process Lab	Measurement and Instrumentation Lab	Thermodynamics Lab	CAD & CAM Lab	PLC Lab	



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	Computer Programming Lab	Basic Mechanical Workshop	Object Oriented Programming using C++	Strength of Materials & Fluid Mechanics Lab	Power Electronics and Drives Lab	Fluid Power Control Lab	Robotics Lab	
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***M -Mathematics**



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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



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



**SEMESTERWISE STRUCTURE OF CURRICULUM
2018 ONWARDS**

(L- Lecture, T- Tutorial, P- Practical and C-Credit)

COURSE: Mechatronics Engineering

I Semester

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

II Semester

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



III Semester

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

* Not for CGPA

IV Semester

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



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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*
		TOTAL	18	-	10	24+1*

* Not for CGPA

V Semester

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

* Not for CGPA



VI Semester

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

* Not for CGPA

VII Semester

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



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

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

VIII Semester

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

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



PROFESSIONAL ELECTIVE COURSES

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



22	PEC VI (VIII Sem)	Autotronics	3	-	-	3
23		Design of Mechatronics Systems	3	-	-	3
24		Flexible manufacturing systems	3	-	-	3
25	PEC VII (VIII Sem)	Micro Electro Mechanical Systems (MEMS)	3	-	-	3
26		VLSI Design	3	-	-	3
27		IOT in Automation	3	-	-	3
28		Digital control System	3	-	-	3

OPEN ELECTIVE COURSES

S.No		Name of the Subject	L	T	P	C
1	OEC I (V Sem)	Electrical and Mechanical Measurements	3	-	-	3
2		Operation Research	3	-	-	3
3		Green and Smart Buildings	3	-	-	3
4		Electric Hybrid Vehicle Technology	3	-	-	3
5	OEC II (VI Sem)	Biomedical Instrumentation	3	-	-	3
6		Human Resource Management	3	-	-	3
7		Waste water Engineering	3	-	-	3
8		Radar and Navigation	3	-	-	3
9	OEC III (VII Sem)	Aircraft Instrumentation	3	-	-	3
10		Energy Harvesting Technologies	3	-	-	3
11		Disaster Management	3	-	-	3
12		Data Communication and network Systems	3	-	-	3
13		Nano Technology	3	-	-	3
14		Big Data Analytics	3	-	-	3



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15	OEC IV (VIII Sem)	Satellite Communication	3	-	-	3
16		Data Compression Techniques	3	-	-	3
17		Entrepreneurship Development	3	-	-	3
18	Optional OEC - Foreign Language	French Primer	-	-	1	2
19		Japanese Primer	-	-	1	2
20		German Primer	-	-	1	2



6. ADMISSION DETAILS (2020-2021)

III YEAR-EIE (2018-2022 BATCH)

S.NO	REG.NO	NAME	GENDER WISE	REGION - WIDE
1	11189G001	KASHIGARI SRAVAN KUMAR	MALE	TELANGANA

IV YEAR EIE (2017-2021 Batch)

S.NO	REG.NO	NAME OF THE STUDENT	GENDER WISE	REGION - WIDE
1.	11179G002	DHAKSHNAMOORTH Y. M	MALE	TAMILNADU
2.	11179G003	MOHAMMAD MONSOOR ASLAM M	MALE	TAMILNADU
3.	11179G004	G SAI KRISHNA	MALE	ANDHRAPRADESH
4.	11179G005	PRADYUMNA	MALE	ANDHRAPRADESH

ADMISSION DETAILS

2020-2021

I YEAR MECHATRONICS (2020-2024 BATCH)

S.NO	REG.NO	NAME	GENDER WISE	REGION - WIDE
1	11209H001	RAGHUL V	MALE	TAMILNADU



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ADMISSION DETAILS 2020-2021

II YEAR MECHATRONICS (2019-2023 BATCH)

S.NO	REG.NO	NAME	GENDER WISE	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 KANNA	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
11	11199H011	JAMBULA JAYA SURYA REDDY	MALE	TELANGANA
12	11199H012	K.SAI KALYAN	MALE	ANDHRA PRADESH
13	11199H013	MANU MAHADEV G	MALE	TAMIL NADU
14	11199H015	P.SAKTHIVEL	MALE	TAMILNADU
15	11199H016	SK. YASEEN	MALE	ANDHRAPRADESH



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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



ADMISSION DETAILS 2020-2021

III YEAR MECHATRONICS (2018-2022 BATCH)

S.NO	REG.NO	NAME	GENDER WISE	REGION - WIDE
1	11189H001	ADITHYA MANOHAR RAVI	MALE	ANDRAPRADESH
2	11189H002	S ASWIN	MALE	TAMILNADU
3	11189H003	BORLAA SIVAKALYANI	FEMALE	ANDRAPRADESH
4	11189H004	R S KAILASH	MALE	TAMILNADU
5	11189H005	KAVVAM SAIJYOTHISH REDDY	MALE	ANDRAPRADESH
6	11189H006	KOVVALI N B S SUBRAHMANYA LOKESH PREETHAM	MALE	ANDRAPRADESH
7	11189H007	MOCHARLA RUTHVIK SAI	MALE	ANDRAPRADESH
8	11189H008	PILLALAMARRI SRINIVASA SANJAY	MALE	ANDRAPRADESH
9	11189H009	RAMANNAGARI NITISH	MALE	ANDRAPRADESH
10	11189H010	S RAVINNDHAR	MALE	TAMILNADU
11	11189H011	REPALA KIREETI	MALE	TELANGANA
12	11189H012	SAMAYAM HEMANTH SAI	MALE	ANDRAPRADESH
13	11189H013	V SELVA KUMAR	MALE	TAMILNADU
14	11189H014	SURIMANI NITEESH	MALE	ANDRAPRADESH



ADMISSION DETAILS 2020-2021
IV YEAR MECHATRONICS (2017-2021 Batch)

S.NO	REG.NO	NAME OF THE STUDENT	GENDER WISE	REGION – WIDE
1.	11179H001	BALAJI. M	MALE	TAMILNADU
2.	11179H002	DINESH KUMAR. S	MALE	TAMILNADU
3.	11179H003	E. MANJUNATH	MALE	TAMILNADU
4.	11179H004	NARAPARAJU DHEERAJ	MALE	TAMILNADU
5.	11179H005	NEEJA.K	FEMALE	TAMILNADU
6.	11179H006	NISHOK K.R	MALE	TAMILNADU
7.	11179H007	PALEPU SIVA SATYA VARMA	MALE	ANDHRAPRADES H
8.	11179H008	RAHUL.M	MALE	TAMILNADU
9.	11179H009	RAMESH PAVITHRA	MALE	ANDHRAPRADES H
10.	11179H010	ROHIT IYENGAR.K.G	MALE	TAMILNADU
11.	11179H011	SANDHYAVAND ANAM NAGESH PAVAN	MALE	ANDHRAPRADES H
12.	11179H012	SHAIK MOHAMMAD AZIZ	MALE	ANDHRAPRADES H
13.	11179H013	TARUN KUMAR .S	MALE	TAMILNADU
14.	11179H014	THATAVARTHI SRI SAI KUMAR PRABHAT NEERAJ	MALE	ANDHRAPRADES H
15.	11179H015	VADANALA VINUSHNA	FEMALE	ANDHRAPRADES H
16.	11179H016	VIKRAM. A	MALE	TAMILNADU



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EIE - (In the academic year 2020-21)
(TOTAL NUMBER OF STUDENTS including I, II, III & IV Years)
EIE – 05
MECHATRONICS - 53



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

**SRI CHANDRASEKHARENDR SARASWATHI VISWA MAHAVIDYALAYA
(SCSVMV)**

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7. FEES STRUCTURE (2020-2021)

REGULAR

Courses	Year/Sem	Year of admission	Without Scholarship	Scholarship		
				25%	35%	50%
B.E/B.Tech (IT) All Branches	I/II	2020-21	60000	45000	39000	30000
	II/IV	2019-20	60000	45000	39000	30000

Courses	Year/Sem	Year of admission	Without Scholarship	Scholarship			
				10%	25%	35%	50%
B.E/B.Tech (IT) All Branches	III/VI	2018-19	60000	54000	45000	39000	30000

Courses	Year/Sem	Year of admission	Term Fee	Total
B.E/B.Tech (IT) All Branches	IV/VIII	2017-18	56500	56500

Courses	Year/Sem	Year of admission	Term Fee	Computer Fee	Total
M.E (Power System)	I/II	2020-21	36000	5000	41000
M.E (Engineering Design)	I/II	2020-21	36000	5000	41000



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B.E (Lateral Entry)

Courses	Year of admission	Year	Sem	Tuition Fee	Development Fee	Total
B.E/B.Tech(IT) ALL BRANCHES	2020-21	II	IV	60000	-	60000
B.E/B.Tech(IT) ALL BRANCHES	2019-20	III	VI	60000	-	60000

Courses	Year of admission	Year	Sem	Term Fee	Development Fee	Total
B.E/B.Tech(IT) ALL BRANCHES	2018-19	IV	VIII	60000	-	60000



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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8. FACULTY POSITION – (2020-2021)

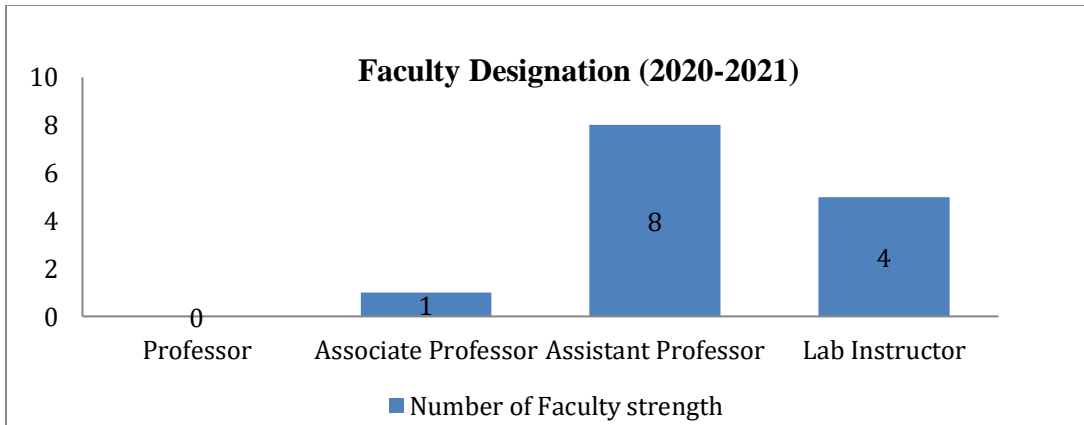
S.No	Name	Qualification	Designation
1.	Mr.V.Swaminathan	B.E., M.Sc. (Engg)	HOD / Associate Professor
2.	Mrs.K.Saraswathi	M.E., (Ph.D)	Assistant Professor (Gr II)
3.	Dr.T.Sundar	M.E., M.B.A., Ph.D	Assistant Professor (Gr I)
4.	Dr.R.Janani	M.Tech., M.B.A., Ph.D	Assistant Professor (Gr I)
5.	Dr.T.Lakshmibai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



2020-2021

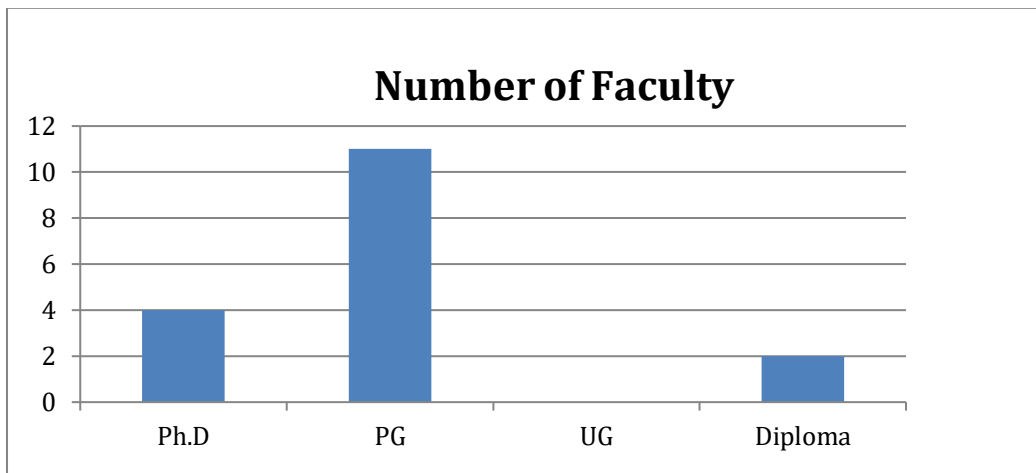
Designation

Designation	Professor	Associate Professor	Assistant Professor	Lab Instructor
Faculty strength	-	1	8	4



Qualification

Qualification	PhD	PG	UG	Diploma
Number of Faculty	4	11	-	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.



Mrs. 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 (Pursing)	Control Systems	SCSVMV University

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 (2020), “Automatic Filling System Using PLC”, in International Journal of Research Publication and Reviews (IJRPR).
- K. Saraswathi (2020), “Detection of Plant Leaf Disease Using Image Processing Approach”, in International Journal of Scientific Development and Research (IJS DR).

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



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Dr.T. Sundar
Assistant Professor,

Area: Electronics and Instrumentation Engineering,
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Email: sundart@kanchiuniv.ac.in, sundar_151@yahoo.co.in



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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Education

DEEE	Diploma in Electrical and Electronics Engineering	Board of Technical Education, 2000
B.E.	Instrumentation and Control Engineering	Madras University, 2003
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

- T.Sundar “**Model of Converter System of Interleaved Buck Boost with Proportional Integral Derivative**”, International Journal of Research Publication and Reviews, Volume 2, Issue 3, ISSN 2582-7421 , 2021.
- T.Sundar, “**Design of Interleaved System of Cuk Converter Applied in Controller of Proportional Resonance**”, International Journal of Research Publication and Reviews, Volume 2, Issue 3, ISSN 2582-7421, 2021.

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,
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Email: janani.rajaraman@kanchiuniv.ac.in



Education

B.E.	Electronics and Instrumentation Engineering	Madras University, 2004
M.Tech	Advanced Communication Systems	SASTRA University, 2006
MBA	Human Resources Management	Pondicherry University, 2014
Ph.D (Pursuing)	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

- Janani.R (2020), “Patient Pulse Rate Monitoring System Using LabVIEW”, in Recent Advances in Mechanical Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore
- Janani.R (2020), “Modeling and Control of Tray Temperature along with Column Pressure in a Pilot Plant Distillation Column”, in IEEE Digital Explore

Paper Presented

National Conference

- Janani. R, participated in the third National conference on current and Emerging Process Technologies CONCEPT 2020 organized by Department of Chemical Engineering, Kongu Engineering College.

Other Professional Experiences

- Worked as Project Engineer in WIPRO Technologies from 2006 to 2008.
- Member of Universal Association of Computer and Electronics Engineers AM1003980
- IAENG – International Association of Engineers 142975.
- IEEE – IEEE Member (Madras Section) 48



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Dr. T. Lakshmibai
Assistant Professor,

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



Education

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

Other Details:

Course

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

Research Interests

- Cognitive Radio, Wireless Communication, Sensors and Actuators.

Publications in Journals

- T. Lakshmibai (2020), Article chapter contribution in Brief Report “Philosophical reflections about the virtual world”,CSI Transactions on ICT (Springer),CSI Transactions on ICT volume 9, pages37–47, 2020
- T. Lakshmibai (2021), A Brief Review on Flight Instruments in Aircraft Technology during Covid 19 Pandemic period,Physics and Statics, ESN Publications book chapter (For India book of Records & Asia book of Records),ISBN 978-81-950305-3-8 30.2021
- T. Lakshmibai (2021), Implementation of Energy Efficient Green Cooling Unit integrating with IoT for Heat Suppression,International Journal of Multidisciplinary Educational Research (IJMER),Volume: 10, Issue: 4, April 2021 with ISSN: 2277-7881, 2021.
- T. Lakshmibai (2021), Design and Implementation of a Smart Energy Measurement System, International Journal of Multidisciplinary Educational Research (IJMER), Volume: 10, Issue: 4, April 2021 with ISSN: 2277-7881,2021.
- T. Lakshmibai (2021), Automatic Colour Sorting by a Robotic arm System, International Journal of Scientific Research in Engineering and Management (IJSREM),Volume 05, Issue: 05 May 2021, pp. 1-8, 2021.
- T. Lakshmibai (2021), Design and experimental study of Mathematical Modelling and analysis of VSI fed Induction motor drive using PSIM software, International Journal For Innovative Research in Multidisciplinary Field (IJIRMF)⁵⁰, Volume - 7, Conference Special Issue - 27,2021.

Other Professional Experiences



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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Dr. G. Padmanabha Sivakumar
Assistant Professor,

Area: Embedded Systems

Affiliation: Department of Electronics and Instrumentation Engineering,
Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV),
Enathur, Kanchipuram.

Email: gpskumar@kanchiuniv.ac.in



Education

B.E	Electronics and Instrumentation Engineering	SCSVMV University, 2009
M.Tech	Embedded Systems	SRM University, 2011
Ph.D	Embedded Systems	SCSVMV University, 2019

Other Details:

Course

- Embedded Systems, Microprocessor and Microcontroller, Analog and Digital Electronics, Electronics Devices and Circuits, Linear Integrated Circuits

Research Interests

- Embedded Systems, Microcontroller Programming, Amplifier Circuits.

Publications in Journals

- Shyam Mohan J.S., Challa N.P., Chakravarthy V.V.K., Kumar G.P.S., Rao R.S., Raju P.V.R. (2021) Recent Trends and Challenges in Blockchain Technology. In: Sekhar G.C., Behera H.S., Nayak J., Naik B., Pelusi D. (eds) Intelligent Computing in Control and Communication. Lecture Notes in Electrical Engineering, vol 702. Springer, Singapore. https://doi.org/10.1007/978-981-15-8439-8_19.
- G. Padmanabha Sivakumar (2021), "Implementing Technological Advances In LPG Sector For Gas Leakage Detection Using Raspberry-Pi Controller", in the International Research Journal of Modernization in Engineering Technology and Science Volume:03/Issue:06/June-2021

Other Professional Experiences

- Worked as Assistant Systems Engineer in Tata Consultancy Services, Chennai from 2011 to 2012
- IAENG – International Association of Engineers M141292
- IEICE – Institute of Electronics, Information and Communication Engineers M1783629



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

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

Other Details: Course

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

Research Interests

- OFDM in Wireless Networks, Wireless Communication

Publications in Journals

- S.S. Saravana Kumar (2020), “ASRS Guided Vehicle based on Inventory Management Using Smart IOT”, International Journal of Research Publication and Reviews
- S.S. Saravana Kumar (2020), “Multihop Cellular Network Using OFDMA – A Survey”, 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

Education

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

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 2021, "Review of Ultrawide band Micro strip patch antenna as a wireless sensor" in international journal of innovative research in technology.
- K.Sugapriya 2021, "UWB Microstrip Patch Antenna for Wireless Sensor Applications", in Turkish Journal of Physiotherapy and Rehabilitation.

Other Professional Experiences

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



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

Area: Communication Systems

Affiliation: Department of Electronics and Instrumentation Engineering,
Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV),
Enathur, Kanchipuram.

Email: ncaboovarahan@kanchiuniv.ac.in

Education

B.E.	Electronics Communication Engineering	Anna University, 2010
M.E	Electronics Communication Engineering	SCSVMV University, 2014
Ph.D (Pursing)	Wireless Communication	SCSVMV 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.

Publications in Journals

- N.C. A. Boovarahan (May 2021), “Vehicle to Everthing an introduction”, in International Journal of Research Publication and Reviews
- N.C. A. Boovarahan (September 2021), “Security Characteristics of 5G communication networks”, in International Journal of Research Publication and Reviews

Other Professional Experiences

- IAENG – International Association of Engineers M141657



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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

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

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.

Education

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

Other Details:

Lab

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

Other Professional Experiences

- DynaVision Limited, Chennai as Technical Assistant 1991-1998
- Lab Instructor in Dept of ECE, SCSVMV 1999-2008



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

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.



10.STUDENTS PROFILE

III YEAR - EIE (2018-2022 BATCH)

S.No	Student Name Register Number Date of Birth	Father Name	Permanent Address	Mobile Number
1	Kashigari Sravan Kumar 11189G001 24/05/2001	Kashigari Raghuveera Sharma	Village- Rekula Choudapur NAWABPET MANDAL Mahabub Nagar TELANGANA-509340	9346866293

IV YEAR - EIE (2017-2021 BATCH)

S.No	Student Name Register number Date of Birth	Father Name	Permanent Address	E-mail id	Mobile Number
1	Dhakshnamoort hy 11179G002 1/5/2000	A Murugantham	110, Nadu Street, Ekanampet, Kanchipuram	dhashnaraji219@gmail.c om	8940057063
2	M. Mohammed Monsoor Aslam 11179G003 6/12/1999	S. Magbul Basha	17e\1 Reddy pet street Kanchipuram	monsooraslam@gmail.co m	8220906255
3	Sai Krishna 1179G004 18/10/1999	G A N Murthy	1076/A prabhath nagar ,guntakal	saikrishna4483@gmail.c om	8309642070
4	Pradyumna 11179G005				



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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(SCSMV)

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II 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	**Register_number@kanc hiuniv.ac.in	7330662359
2	APPIKATLA VIJAY 11199H002 01/12/2001	Appikatla Pardhasaradhi	3-116, Avanigadda Krishna dist Vijayawada Anshra pradesh-521121		7981668922
3	AVINASH. T. V. S 11199H003 22/01/2002	P. Radha krishnan	4-a, Thilakan nagar 3rd streetEennore Thiruvallore dist-600057		9444249614
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 KANNA. 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	PRADHUYUMN A 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



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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 MAHADEV. 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 IMTHIAZ	Pallavi street raghava pet Sullurpet Nellore	8121546605
16	SHRINIVAS. A 11199H017 05/11/2001	ANAND. S	2A Balaji nagar Extension reddiyar nagar Korattur Chennai	940510376
17	SINGAMSETTI CHAITANYA VENKAT 11199H018 17/02/2002	SINGAMESETT I SRINIVASA RAO	D-2-174 Undavalli Guntur AP	9704755326
18	SRIHARI. B. R 11199H019 23/06/2001	RAMAKRISHN AN. 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 Saheb nagar Vanasthalipuram Hyderabad	7794093779



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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

III YEAR - MECHATRONICS (2018-2022 BATCH)

S.No	Student Name/ Register number/ Date of Birth	Father Name	Permanent Address	Mobile Number
1	Adithya Manohar Ravi 11189H001 08/06/2001	RAVI RAMA CHANDRA M URTHY	FALT NO.201, AKASH RESIDENCY NEW INDIRA NAGAR TIRUPATI CHITTOOR DIST-517502	938/1297825
2	S Aswin 11189H002 11/11/2000	SURESH. K	19, THIYAGUSETTI STREET PARANGIPETTAI CUDDALORE- 608502	6382933580
3	Borlaa Sivakalyani 11189H003 12/3/2001	BORLAA RAVI KUMAR	NO.18-7-13-8, SAI BABA TEMPLE STREET KUDDUR NAGAR KEDARESWARAPETA VIJAYAWADA-520003	9666429957
4	R S Kailash 11189H004 19/10/2000	SURESH. R	37, V.K IYER ROAD RA PURAM CHENNAI-600028	9840596725
5	Kavvam Saijyothish Reddy 11189H005 30/08/2011	KAVVAM NARASIMHA REDDY	19-4-121-1D, GEETHA COLONY TIRUPATI ANDHRA PRADESH- 517501	7993021139
6	Kovvali N B S Subrahmanya Lokesh Preetham 11189H006 3/5/2000	KOVVALI SURYA KUMAR	5-36-4-4, SRI VASTHA APARTMENTS 2ND FLOOR FLAT NO.202, PURUSHOTHAPURAM COLONY VISAKHAPATNAM-530027	9010594297
7	Mocharla Ruthvik Sai 11189H007 23/11/2000	MOCHARLA SRINIVASA RAO	VIDYANAGAR 7TH LINE MULAGUNTAPADU ANDHRA PRADESH-523101	6384387365



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8	Pillalamarri Srinivasa Sanjay 11189H008 5/12/2000	PILLALAMARRI VENKATA SUBBARAMA SASTRY	7-9, SRINAGAR PAGOLUI CHALLAPALLI CHALLAPALLI MANDAL ANDHRA PRADESH- 521126	9052361098
9	Ramannagari Nitish 11189H009 9/8/2000	RAMANNAGARI VENKATARAMANA REDDY	3-30, KOTHA NEMURO KOTHA NENNURU RAMACHANDRAPURAM KATTAKINDAVENKATAPURAM CHITTOOR ANDHRA PRADESH- 517561	7780309782
10	S Ravinndhar 11189H010 29/04/1999	A. SHANMUGAM	16, NEW STREET KOLATHUR PILLAIPAKKAM KANCHIPURAM-602105	9600356896
11	Repala Kireeti 11189H011 15/05/2002	REPALA VENKATESHWARRAO	4-4-6-503, RUTHWIK PARADISE OPP PVR GARDENS NAIDUPETA BYPASS KHAMMAM RURAL TELANGANA-507003	8184994633
12	Samayam Hemanth Sai 11189H012 14/12/2000	S. KISHORE KUMAR	D.NO.6-1-296-502, VARADARAJA NAGAR TIRUPATI CHITTOOR DIST ANDHRA PRADESH-517501	8897739306
13	V Selva Kumar 11189H013 9/3/2000	VEERATHILAGAM. V	NO.12, RANNUVA VEERA SALAI SEVILIMEDU KANCHIPURAM- 631502	9894150250
14	Surimani Niteesh 11189H014 29/10/2000	SURIMANI RAVI	D.NO. 7-33, SRI NAGAR COLONY TIRUPATI ANDHRA PRADESH- 517507	9908837018
15	Arun Kumar 11189H015	S. JOTHI	NO.201, ADAVANTHAL KANNAR STREET VASANTHAPURAM VELLORE - 632001	7871849420



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IV YEAR - MECHATRONICS (2017-2021 BATCH)

S.No	Student Name/ Register number/ Date of Birth	Father Name	Permanent Address	E-mail id	Mobile Number
1	M.Balaji 11179H001 3/5/1998	K.Mohan	152A,Sathya Nagar Orikkai Kanchipuram	balajimohan32612Gmail.com	7639942876
2	Dinesh Kumar S 11179H002 13/06/2003	A.Suresh	(2/910)SUNGUVAR CHATRAM 602106,Sriperumbhu dhur,Kanchipuram Dt,Tamilnadu	Sdineshkumar1306@gmail.com	9952516117
3	E Manjunath 11179H003 1/3/2000	S Eswaran	No 162 malligai cross street poompozhil nagar Avadi Chennai 600062	eswaranmanjunath@gmail.com	9444399014
4	Dheeraj Naraparaju 11179H004 12/1/2000	N.V.Rama Rao	srinagar colony,MHIL mellacheruvu (post and mandal),suryapet dist,telangana - 508246	dheeraj122000@gmail.com	8220324658
5	Neeja K 11179H005 13/07/2000			Neejakumar2000@gmail.com	9443262407
6	K.R.Nishok 11179H006 10/11/1999	M.Ravi	No.1037/5, Mariyaamman kovil Street, Poonthotham, Thiruvarur District.	nishokpoovai609503@gmail.com	8270224820
7	Palepu Siva Satya Varma 11179H007 01/11/1998			Lovelyvarma012@gmail.com	9182674002
8	M.Rahul 11179H008 30-12-99	N.Muralidharan	dept of EIE scsvmv university	rahulresi10@gmail.com	7094402470
9	Ramesh Pavithra 11179H009 12/6/2000	N.K.Ramesh	new C type quaters d.no-53 near by madhavanilayam Tirumala	rameshpavithra126@gmail.com	7598956103



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10	Rohit Iyengar K G 11179H010 2/8/1999	K V Giri Iyengar	No.304,Sri Lakshmi Janardhana Nilayam,behind S B I bank,near C B T Road,Avadi,Chennai- 600054	rohitiyengarkg@gmail.com	7092797841
11	S.Nagesh Pavan 11179H011 6/8/2000	S.Narayana Rao	5/20 , Dhabade Street , Pamidi, 515775, Anantapur Dist , Andhra Pradesh	nageshpavan98@gmail.co m	9550842002
12	Shaik Mohammed Aziz 11179H012 18-12-99	shaik khadar vali	Koneru Street,Ulavapadu,Pra kasam (Dist),Andhra Pradesh	shaikmohammedaziz007@ gmail.com	9502846420
13	Tarun Kumar.S 11179H013 29-05-2000	Siva kumar.A	No:18 S.M Doss Avenue ,Iyappa Nagar (West),Kanchipuram	tarunbestie00@gmail.com	9787506700
14	Thatavarthi Sri Sai Kumar Prabhat Neeraj 11179H014 13-08-2000	thatavathi satyanarayana	10_11_6 ,Beside Old Post Office , Old College Street ,Nagempeta, Peddapuram	neerajthatavarthi11@gmail. com	9441141760
15	Vadanala Vinushna 11179H015 10/07/2000			rithvinukumar@gmail.com	9247767704
16	A. Vikram 11179H016 17-04-00	S. Arul	No.19/20, T.V. Rathnam Nagar, Periyathottam Village, Near Periyar Nagar, Little Kanchipuram. 631501	arulkumaran9013@gmail.c om	9629444785
	S.Dinesh Kumar 11179H002 13-06-00	A.Suresh	(2/910)SUNGUVAR CHATRAM 602106,Sriperumbhu dhur,Kanchipuram Dt,Tamilnadu	sdk130600@gmail.com	7339477303



11. FINANCIAL REPORT

Budget proposal for the financial year 2020-21

Name of the Dept: EIE

Recurring		Q1	Q2	Q3	Q4		
S.No	Expenditure head	Apr - Jun	Jul - Sep	Oct - Nov	Dec - Mar	Total	Annexure No.
1	Academic (BoS, Guest lecture, Travelling, Hospitality, Subscription to journals)	10000	7000	6000	6000	29000	1
2	Lab (Cosumables and Repairs)	10000	0	10000	5000	25000	2
3	Printing & Stationery	10000	1500	10000	0	21500	3
4	Seminar (Honorarium, TA DA etc)	0	10500	0	15500	26000	4
5	Research activities	15000	15000	15000	15000	60000	5
6	Part time remuneration	0	0	0	0	0	6
7	Others (details to be provided by dept)	0	3000	0	3000	6000	7
		45000	37000	41000	44500	167500	



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CAPITAL		Q1	Q2	Q3	Q4		
S.No	Expenditure head	Apr - Jun	Jul - Sep	Oct - Nov	Dec - Mar	Total	Annexure No.
1	Books	2000	4000	2000	4000	12000	8
2	Computers and Software	20000	0	0	0	20000	9
3	Furniture	0	0	0	0	0	10
4	Lab equipments	32000	0	0	0	32000	11
5	Teching Aids	0	15000	0	0	15000	12
6	Others (details to be provided by dept)	0	0	0	0	0	13
		54000	19000	2000	4000	79000	

INCOME / EXPENDITURE

Total income for the academic year 2020 -21

(Tuition fees amount paid by the students)

First year	60,000 * 02 * 1	1.20 Lakhs
Second year	60,000 * 02 * 21	25 Lakhs
Thrid year	60,000 * 02 * 16	19 Lakhs
Final year	60,000 * 02 * 20	24 Lakhs
Total Income		69.20 Lakhs

Expenditure for Annual salary of all EIE staff members = **61 Lakhs** (515261*12 = 6183132)

HOD/EIE



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12. TIME TABLE

ODD SEMESTER - TIME TABLE – 2020-21

II YEAR MECHATRONICS Online class schedule

PROGRAM : B.E.(MECHATRONICS)

YEAR / SEMESTER : II/III

SECTION : A

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY	-	EM	EM	-	S&A	S&A
TUESDAY	-	M	M	-		
WEDNESDAY	-			SANSKRIT AND INDIAN CULTURE		
THURSDAY	-			-		
FRIDAY	-	S&A	S&A	-	M	M
SATURDAY	-	EM	EM	-		



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S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
2	M	Mathematics III (Probability and Statistics)	Dr.Balaji	4	MATHS
0	EDC	Electronic Devices and Circuits	Mr.S S Saravanakumar	4	EIE
2	EM	Engineering Mechanics	Mr. G. Venkatakoteswara Rao	4	EIE
0	MTM	Manufacturing Technology for Mechatronics	Dr. S. D. Sathishkumar	4	MECH
1	S&A	Sensors & Actuators	Dr.T.Lakshmibai	4	EIE
0	OOPS	Object Oriented Programming Using C++	Ms.Anitha	4	CSE
	S & IC	Sanskrit and Indian Culture	Dr.D.Nageswara Rao	2	Sanskrit



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ODD SEMESTER - TIME TABLE – 2020-21

III YEAR EIE Online class schedule

PROGRAM : B.E.(EIE)
SECTION : A

YEAR / SEMESTER : III/V

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY	-			-	-	-
TUESDAY	-	-	-	-		
WEDNESDAY	-			-	EHVT	EHVT
THURSDAY	-	CS	CS	-		
FRIDAY	-			-	PEID	PEID
SATURDAY	EHVT	10.30 - 12.00		-	CS	CS
		SOFT SKILL- APTITUDE CLASS				



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S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
0	AI	Professional Elective- I Analytical Instrumentation	Mrs.K.Saraswathi	4	EIE
3	EHVT	Open Elective - I Electric Hybrid Vehicle Technology	Dr. D.Vanitha	4	EEE
2	CS	Control System	Mrs.K.Sugapriya	4	EIE
0	PCI	Process Control Instrumentation	Mrs.Janani.R	4	EIE
0	PEID	Power Electronics and Industrial Drives	Dr.T.Lakshmibai	4	EIE
0	PPI	Power Plant Instrumentation	Mr.N C A Boovarahan	4	EIE



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(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA
(SCSVMV)

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ODD SEMESTER - TIME TABLE – 2020-21

III YEAR MECHATRONICS Online class schedule

PROGRAM : B.E.(Mechatronics)

YEAR / SEMESTER : III/V

SECTION : A

	1	2	3	4	5	6
	9.00 – 10.00	10.00 – 11.00	11.00 – 12.00	12.00 – 1.00	2.00- 3.00	3.00 – 4.00
MONDAY	-			-	FPS	FPS
TUESDAY	-	FPS	FPS	-		
WEDNESDAY	-			-	EHVT	EHVT
THURSDAY	-	CS	CS	-		
FRIDAY	-			-	PEID	PEID
SATURDAY	EHVT	10.30 – 12.00		-	CS	CS
		SOFT SKILL- APTITUDE CLASS				



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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<i>S. CODE</i>	<i>Subject abbreviation</i>	<i>SUBJECT</i>	<i>FACULTY</i>	<i>HOURS</i>	<i>DEPT</i>
0	ICE	Professional Elective- I Internal Combustion Engine	Mr.Chenga reddy	4	MECH
3	EHVT	Open Elective - I Electric Hybrid Vehicle Technology	Dr. D.Vanitha	4	EEE
2	CS	Control System	Mrs. K.Sugapriya	4	EIE
0	AI	Analytical Instrumentation	Mrs. K.Saraswathi	4	EIE
0	PEID	Power Electronics and Industrial Drives	Dr.T.Lakshmibai	4	EIE
2/3	FPS	Fluid Power Systems	Dr. G.Harish	4	MECH



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ODD SEMESTER - TIME TABLE – 2020-21

IV YEAR EIE Online class schedule

PROGRAM : B.E.(EIE)
SECTION : A

YEAR / SEMESTER : IV/VII

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY	-			-	CCP	CCP
TUESDAY	-	POM	POM	-	ICPCI	ICPCI
WEDNESDAY	-	ICPCI	ICPCI	-		
THURSDAY	-			-	POM	POM
FRIDAY	-	CCP	CCP	-		
SATURDAY				PROJECT WORK PHASE- I		



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
EC7T1	VLSI	VLSI Design	Mr.S S Saravanakumar	4	EIE
EI7T2	ES	Embedded Systems-	Dr. G P Sivakumar	4	EIE
EI7T3	POM	Principle of Management & Professional 22Ethics	Dr.T.Sundar	4	EIE
EI7T4	CCP	Computer Control of Process	Mrs.K.Saraswathi	4	EIE
EI7E4	VI	Elective - I(Virtual Instrumentation) Virtual Instrumentation	Mrs.Janani.R	4	EIE
EI7EA	ICPCI	Elective - II(Instrumentation and Control in Petrochemical Industries Instrumentation and Control in Petrochemical Industries	Dr.T.Sundar	4	EIE
EI7Z1	PW-I	PROJECT WORK PHASE- I	Mrs.Janani.R	1	EIE



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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ODD SEMESTER - TIME TABLE – 2020-21

IV MECHATRONICS Online class schedule

PROGRAM : B.E.(MECHATRONICS)

YEAR / SEMESTER : IV/VII

SECTION : A

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY	-			-		
TUESDAY	-			-		
WEDNESDAY	-	DMS	DMS	-		
THURSDAY	-			-		
FRIDAY	-			-	DMS	DMS
SATURDAY				PROJECT WORK PHASE- I		



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S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
MH7T1	RA	Robotics & Automation	Mrs.K.Saraswathi	4	EIE
EI7T2	ES	Embedded Systems	Dr. G P Sivakumar	4	EIE
MH7T3	DMS	Design of Mechatronics Systems-2	Dr. S. Vijayabhaskar	4	MECH
MH7T4	PLC	PLC & Data acquisition Systems	Mrs.Janani.R	4	EIE
MH7ED	VI	Elective - I(Virtual Instrumentation) Virtual Instrumentation	Mrs.Janani.R	4	EIE
MH7EG	DJF	Elective - II(Design of Jigs and Fixtures) Design of Jigs and Fixtures	Dr. K. Mohan	4	MECH
MH7Z1	PW-I	PROJECT WORK PHASE- I	Dr. G P Sivakumar	1	EIE

TIME TABLE INCHARGE

HOD/ EIE



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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EVEN SEMESTER - TIME TABLE – 2020-21

III YEAR EIE Online class schedule

PROGRAM : B.E.(EIE)

YEAR / SEMESTER : III/VI

SECTION : A

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY		ICP	ICP		PLC	PLC
TUESDAY		MPMC	MPMC		HR	HR
WEDNESDAY		VI	VI		ICP	ICP
THURSDAY		PLC	PLC		VI	VI
FRIDAY		POM	POM		HR	HR
SATURDAY		MPMC	MPMC		POM	POM



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
BMTF186EFO	VI	Professional Elective - II Virtual Instrumentation	Mrs.Janani.R	4	EIE
BMTF1860EF	HR	Open Elective -II Human Resource Management	Mr.S.Swaraj	4	MBA
BEIF186T10	PLC	PLC & Data Acquisition Systems	Mrs.K.Saraswathi	4	EIE
BEIF186T30	POM	Principles of Management and Professional Ethics	Dr. G P Sivakumar	4	EIE
BEIF186T20	MPMC	Microprocessors and Microcontrollers	Mrs.K.Sugapriya	4	EIE
BEIF186T40	ICP	Industrial Chemical Process	Dr.T.Sundar	4	EIE
TEMPEIE6T 7	SS-IV	Soft Skill- IV	-	-	-

TIME TABLE INCHARGE

HOD/ EIE



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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EVEN SEMESTER - TIME TABLE – 2020-21
IV YEAR EIE Online class schedule

PROGRAM : B.E.(EIE)
SECTION : A

YEAR / SEMESTER :IV/VIII

	1	2	3	4	5	6	7
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00	4.30 - 5.30
MONDAY		AI	AI		AUTO	AUTO	PW- II
TUESDAY		BIO	BIO		RA	RA	
WEDNESDAY		BIO	BIO		AI	AI	
THURSDAY		AI	AI		RA	RA	
FRIDAY		RA	RA		AUTO	AUTO	
SATURDAY		AUTO	AUTO		BIO	BIO	



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S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
EI8T1	RA	Robotics and Automation	Mrs. K.Sugapriya	6	EIE
EI8T2	BIO	Bio Medical Instrumentation	Mr.S S Saravanakumar	6	EIE
EI8E3	AI	Elective - III Aircraft Instrumentation	Dr.T.Lakshmibai	6	EIE
EI8EU	AUTO	Elective -IV Automotive Instrumentation	Dr.T.Sundar	6	EIE
EI8Z2	PW-II	PROJECT WORK PHASE- II	Mrs.Janani.R	1	EIE

TIME TABLE INCHARGE

HOD/ EIE



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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EVEN SEMESTER - TIME TABLE – 2020-21

II YEAR MECHATRONICS Online class schedule

PROGRAM : B.E.(MECHATRONICS)
SECTION : A

YEAR / SEMESTER :II/IV

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY		DE	DE		Thermo	Thermo
TUESDAY		SM&FM	SM&FM		LIC	LIC
WEDNESDAY		II	II		DE	DE
THURSDAY		Thermo	Thermo		SM&FM	SM&FM
FRIDAY		ME	ME		II	II
SATURDAY		LIC	LIC		ME	ME



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S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
BMTF184T10	SM&FM	Strength of Materials and Fluid Mechanics	Dr.A.Thamilarasan	4	MECH
BMTF184T20	II	Industrial Instrumentation	Mrs.K.Saraswathi	4	EIE
BMTF184T30	ME	Materials Engineering	Mr.R. Ellappan	4	MECH
BMTF184T40	Thermo	Thermodynamics	Mr.Chenga reddy	4	MECH
BMTF184T50	LIC	Linear Integrated Circuits	Mr.N C A Boovarahan	4	EIE
BMTF184T60	DE	Digital Electronics	Mr.S.S.Saravanakumar	4	EIE
BETF184MC4	SS-II	Soft Skill- II	-	-	-

TIME TABLE INCHARGE

HOD/ EIE



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EVEN SEMESTER - TIME TABLE – 2020-21

III YEAR MECHATRONICS Online class schedule

PROGRAM : B.E.(Mechatronics)

YEAR / SEMESTER : III/VI

SECTION : A

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY		CAD / CAM	CAD / CAM		PLC	PLC
TUESDAY		MPMC	MPMC		HR	HR
WEDNESDAY		VI	VI		CAD / CAM	CAD / CAM
THURSDAY		PLC	PLC		VI	VI
FRIDAY		POM	POM		HR	HR
SATURDAY		MPMC	MPMC		POM	POM



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S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
BMTF186EFO	VI	Professional Elective - II Virtual Instrumentation	Mrs.Janani.R	4	EIE
BMTF1860EF	HR	Open Elective -II Human Resource Management	Mr.S.Swaraj	4	MBA
BEIF186T10	PLC	PLC & Data Acquisition Systems	Mrs. K.Saraswathi	4	EIE
BEIF186T30	POM	Principles of Management and Professional Ethics	Dr. G P Sivakumar	4	EIE
BEIF186T20	MPMC	Microprocessors and Microcontrollers	Mrs.K.Sugapriya	4	EIE
BNTF186T40	CAD/ CAM	CAD / CAM	Dr. S. Vijayabhaskar Dr. G.Harish	4	MECH
TEMPMECT6T 7	SS-IV	Soft Skill- IV	-	-	-

TIME TABLE INCHARGE

HOD/ EIE



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EVEN SEMESTER - TIME TABLE – 2020-21

IV MECHATRONICS Online class schedule

PROGRAM : B.E.(MECHATRONICS)

YEAR / SEMESTER :IV/VIII

SECTION : A

	1	2	3	4	5	6	7
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00	4.30 - 5.30
MONDAY		AI	AI		MV	MV	PW-II
TUESDAY		PP&CE	PP&CE		POM	POM	
WEDNESDAY		MV	MV		AI	AI	
THURSDAY		AI	AI		MV	MV	
FRIDAY		POM	POM		PP&CE	PP&CE	
SATURDAY		PP&CE	PP&CE		POM	P O M	



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S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
MH8T1	POM	Principles of Management and Professional Ethics	Dr. G P Sivakumar	6	EIE
MH8T2	MV	Machine Vision	Dr. G. Harish	6	MECH
MH8EB	AI	Elective - III Aircraft Instrumentation	Dr.T.Lakshmibai	6	EIE
MH8EJ	PP&CE	Elective -IV Process Planning and Cost Estimation	Dr.S.D.Sathishkumar	6	MECH
MH8Z2	PW-II	PROJECT WORK PHASE- II	Dr. G P Sivakumar	1	EIE

TIME TABLE INCHARGE

HOD/ EIE



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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LAB Schedule – EVEN Semester 2020-2021 (March and April Session)
01.03.2021 to 12.04.2021

Second Year Mechatronics

Sem/Year	BRANCH	Lab Name	Faculty In-charge	Day	Timing
IV/II	Mechatronics	Thermal Engineering Lab	Mr. Ellappan	Saturday	2.00 PM to 4.00 PM
IV/II	Mechatronics	Strength of materials and Fluid Mechanics Lab	Mr.Chenga Reddy	Monday	2.00 PM to 4.00 PM
IV/II	Mechatronics	Linear Integrated Circuits and Digital Electronics Lab	Dr.T.Lakshmibai Mr.G.Subramaniyan Mr.K. Vinayagamoorthy	Wednesday	2.00 PM to 4.00 PM

Third Year Mechatronics

Sem/Year	BRANCH	Lab Name	Faculty In-charge	Day	Timing
VI/III	Mechatronics	CAD/CAM Lab	Dr. S. Vijayabaskar	Wednesday	2.00 PM to 4.00 PM
VI/III	Mechatronics	Microprocessor and Microcontroller Lab	Dr.T.Lakshmibai Mrs.V.Komala Mr.K. Vinayagamoorthy	Tuesday	10.00 AM to 12.00 PM
VI/III	Mechatronics	PLC and VI Lab	Mrs.K.Saraswathi Mr.G.Subramaniyan Mr.K. Vinayagamoorthy	Monday	2.00 PM to 4.00 PM



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Third Year EIE

Sem /Year	BRANCH	Lab Name	Faculty In-charge	Day	Timing
VI/III	EIE	Microprocessor and Microcontroller Lab	Dr.T.Lakshmibai Mrs.V.Komala Mr.K. Vinayagamoorthy	Tuesday	10.00 AM to 12.00 PM
VI/III	EIE	VI Lab	Ms.Janani.R Mr.G.Subramaniyan Mrs.V.Komala	Thursday	2.00 PM to 4.00 PM
VI/III	EIE	PLC Lab	Mrs.K.Saraswathi Mr.G.Subramaniyan Mr.K. Vinayagamoorthy	Monday	2.00 PM to 4.00 PM

CSE

Sem /Year	BRANCH	Lab Name	Faculty In-charge	Day	Timing
IV/II	CSE(S1 to S5)	Microprocessor and Microcontroller Lab	Dr.G.P.Sivakumar (S1) Mr.G.Subramaniyan Mrs.V.Komala Mr.K. Vinayagamoorthy	Wednesday	10.00 AM to 12.00 PM



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			Dr.T.Sundar (S2) Mr.G.Subramaniyan Mrs.V.Komala Mr.K. Vinayagamoorthy	Tuesday	2.00 PM to 4.00 PM
			Mr.S.S.Saravanakumar (S3) Mr.G.Subramaniyan Mrs.V.Komala Mr.K. Vinayagamoorthy	Thursday	10.00 AM to 12.00 PM
			Mr.N C A Boovarahan (S4) Mr.G.Subramaniyan Mrs.V.Komala Mr.K. Vinayagamoorthy	Wednesday	2.00 PM to 4.00 PM
			Mrs.K.Sugapriya(S5) Mr.G.Subramaniyan Mrs.V.Komala Mr.K. Vinayagamoorthy	Monday	2.00 PM to 4.00 PM

Coordinator: K.Saraswathi and T.Sundar

HOD/EIE

(V.Swaminathan)



FACULTY INDIVIDUAL TIME TABLE ODD SEMESTER 2020-21

Department of EIE

V.Swaminathan

1.	POM	EI7T3	Principle of Management & Professional Ethics	IV-YEAR-EIE
----	-----	-------	---	-------------

Day	10.00-11.30	2.00-3.30
Mon		
Tue	POM	
Wed		
Thru		POM
Fri		
Sat		

K.Saraswathi

1	CCP	Computer Control of Process	IV-YEAR-EIE
2	AI	Professional Elective- I Analytical Instrumentation	III-YEAR-EIE & Mechatronics
3	RA	Robotics and Automation	IV-YEAR-Mechatronics

Day	10.00-11.30	2.00-3.30
Mon		CCP
Tue	RA	AI
Wed	AI	
Thru		RA
Fri	CCP	
Sat		



T.Sundar

1.	ICPCI	Elective - II Instrumentation and Control in Petrochemical Industries	IV-YEAR-EIE
2.	DE	Digital Electronics	II-YEAR-CSE-S2
3.	POM	Principle of Management & Professional Ethics	IV-YEAR-EIE

Day	10.00-11.30	2.00-3.30
Mon	DE	
Tue	POM	ICPCI
Wed	ICPCI	
Thru		POM
Fri		DE
Sat		

Janani.R

1	PCI	Process Control Instrumentation	III-YEAR-EIE
2	VI	Elective - I Virtual Instrumentation	IV-YEAR-EIE & Mechatronics
3	PLC	PLC and Data Acquisition system	IV- YEAR Mechatronics & III YEAR ECE

Day	10.00-11.30	2.00-3.30
Mon		PLC
Tue	PCI	
Wed		VI
Thru		PCI
Fri	PLC	
Sat	VI	



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1	S&A	Sensors & Actuators	II-YEAR-Mechatronics
2	PEID	Power Electronics and Industrial Drives	III-YEAR-EIE & Mechatronics
3	S&T	Sensor & Transducer	II-YEAR-MECHANICAL

T.Lakshmbai

Day	10.00-11.30	2.00-3.30
Mon	PEID	S&A
Tue		
Wed		
Thru		S&T
Fri		PEID
Sat	S&A	

G.P.SivaKumar

1	ES	Embedded Systems	IV-YEAR-EIE & Mechatronics
2	DE	Digital Electronics	II-YEAR-CSE-S1
3	POC	POC	III-YEAR-IT

Day	10.00-11.30	2.00-3.30
Mon	ES	
Tue	POC	
Wed	DE	
Thru	DE	POC
Fri		ES
Sat		



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S.S.SaravanaKumar

1	VLSI	VLSI Design	IV-YEAR-EIE
2	DE	Digital Electronics CSE-C	II-YEAR-CSE-S3
3	EDC	Electronic Devices and Circuits	II-YEAR-Mechatronics

Day	10.00-11.30	2.00-3.30
Mon	DE	
Tue		DE
Wed	EDC	
Thru	VLSI	
Fri		VLSI
Sat		EDC

K.Sugapriya

1	CS	Control System	III-YEAR-EIE & Mechatronics
2	ACS	Advance Control System	II-YEAR-MECHANICAL
3	DE	Digital Electronics	II-YEAR-CSE-S5

Day	10.00-11.30	2.00-3.30
Mon		
Tue	DE	
Wed		
Thru	CS	DE
Fri		ACS
Sat		CS



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N C A Boovarahan

1	PPI	Power Plant Instrumentation	III-YEAR-EIE
2	DE	Digital Electronics CSE-E	II-YEAR-CSE-S4

Day	10.00-11.30	2.00-3.30
Mon		PPI
Tue	DE	
Wed		
Thru		
Fri	PPI	DE
Sat		



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FACULTY INDIVIDUAL TIME TABLE EVEN SEMESTER 2020-21

Department of EIE

INDIVIDUAL TIME TABLE

Mrs.K.Saraswathi

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY					PLC	PLC
TUESDAY						
WEDNESDAY		II	II			
THURSDAY		PLC	PLC			
FRIDAY					II	II
SATURDAY						

S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
II		Industrial Instrumentation	Mrs.K.Saraswathi	4	Mechatronics
PLC		PLC & Data Acquisition Systems	Mrs.K.Saraswathi	4	EIE & Mechatronics



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Dr.T.SUNDAR

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY		ICP	ICP		AUTO	AUTO
TUESDAY						
WEDNESDAY					ICP	ICP
THURSDAY						
FRIDAY					AUTO	AUTO
SATURDAY		AUTO	AUTO			

S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
TEMPEIE6T 6	ICP	Industrial Chemical Process	Dr.T.Sundar	4	EIE
EI8EU	AUTO	Elective -IV Automotive Instrumentatio n	Dr.T.Sundar	6	EIE



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Mrs.Janani.R

	1	2	3	4	5	6	7
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00	4.30- 5.30
MONDAY							PW-II
TUESDAY					MPMC (CSE S2)		
WEDNESDAY		VI	VI				
THURSDAY					VI	VI	
FRIDAY		MPMC (CSE S2)					
SATURDAY							

S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
	VI	Professional Elective - II Virtual Instrumentation	Mrs.Janani.R	4	EIE/ Mechatronics
	MPMC	MICROPROCESSOR AND MICROCONTROLLER	Mrs.Janani.R	4	CSE (S2)
EI8Z2	PW-II	PROJECT WORK PHASE- II	Mrs.Janani.R	1	EIE



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Dr.T.LAKSHMIBAI

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY		AI	AI		ED&C	ED&C
TUESDAY						
WEDNESDAY					AI	AI
THURSDAY		AI	AI			
FRIDAY						
SATURDAY						

S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
EI8E3	AI	Elective - III Aircraft Instrumentation	Dr.T.Lakshmiba i	6	EIE/ Mechatronics
	ED&C	ELECTRIC DRIVES AND CONTROLS FOR ELECTRIC VEHICLES	Dr.T.Lakshmiba i	2	MECHANICAL



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Dr.G.P.SIVAKUMAR

	1	2	3	4	5	6	7
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00	4.30- 5.30
MONDAY		ES	ES				PW-II
TUESDAY					POM	POM	
WEDNESDAY					ES	ES	
THURSDAY							
FRIDAY		POM	POM				
SATURDAY					POM	POM	

S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
	POM	Principles of Management and Professional Ethics	Dr.GP Sivakumar	6	EIE/ Mechatronics
	ES	EMBEDDED SYSTEM	Dr.GP Sivakumar	4	IT
MH8Z2	PW-II	PROJECT WORK PHASE- II	Dr. G P Sivakumar	1	Mechatronics



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Mr.S. S. Saravanakumar

	1	2	3	4	5	6	7
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00	6.00- 7.50
MONDAY		DE	DE				
TUESDAY		BIO	BIO		MPMC (CSE S3)		
WEDNESDAY		BIO	BIO		DE	DE	
THURSDAY		MPMC (CSE S3)					BEE
FRIDAY							
SATURDAY					BIO	BIO	

S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
	DE	Digital Electronics	Mr.S.S.Saravanakumar	4	Mechatronics
EI8T2	BIO	Bio Medical Instrumentation	Mr.S S Saravanakumar	6	EIE
	MPMC	MICROPROCESSOR AND MICROCONTROLLER	Mr.S S Saravanakumar	4	CSE(S3)
BMEP181T40	BEE	BASIC ELECTRONICS ENGINEERING	Mr.S S Saravanakumar	2	MECHANICAL (PT)



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Mrs.K.SUGAPRIYA

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY					MPMC (CSE S5)	
TUESDAY		MPMC (EIE)			RA	RA
WEDNESDAY		MPMC (CSE S5)				
THURSDAY					RA	RA
FRIDAY		RA	RA			
SATURDAY		MPMC	MPMC			

S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
	MPMC	Microprocessors and Microcontrollers	Mrs.K.Sugapriya	4	EIE/ Mechatronics
EI8T1	RA	Robotics and Automation	Mrs. K.Sugapriya	6	EIE
	MPMC	MICROPROCESSOR AND MICROCONTROLLER	Mrs. K.Sugapriya	4	CSE(S5)



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Mr.N C A Boovarahan

	1	2	3	4	5	6
	9.00 - 10.00	10.00 - 11.00	11.00 - 12.00	12.00 - 1.00	2.00- 3.00	3.00 - 4.00
MONDAY		BEE	BEE			
TUESDAY					LIC	LIC
WEDNESDAY					MPMC (CSE S4)	
THURSDAY						BEE
FRIDAY		MPMC (CSE S4)				
SATURDAY		LIC	LIC			

S. CODE	Subject abbreviation	SUBJECT	FACULTY	HOURS	DEPT
	LIC	Linear Integrated Circuits	Mr.N C A Boovarahan	4	Mechatronics
	MPMC	MICROPROCESSOR AND MICROCONTROLLER	Mr.N C A Boovarahan	4	CSE(S4)
	BEE	BASIC ELECTRONICS ENGINEERING	Mr.N C A Boovarahan	3	MECHANICAL



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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	FDP On Line learning tools post covid-19	29.05.2020
2	EIE	WEBINAR – Slam Robotics SCSVMV & Pantech E learning, Chennai	01.06.2021



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

- AAVISHKAR tag line is “**Discover an Engineer in U**”. The in –depth abbreviation says
A-Analyze,
A-Anticipate,
V-View,
I-Innovate,
S-Stimulate,
H-Hoist,
K-The Kharismatic,
A-Avatar of Engineer
& R-To Reality
- This is a wonderful platform for student eternity to show their technical & presentation skills in various technical concepts.
- The technical paper presentation of the AAVISHKAR includes the innovative topics like Augmented Reality, Internet of Things Embedded Systems Wireless network system, Space recognition sensor, Bio-medical instrumentation, Light fidelity etc.,
- Technical papers received from inter University and the end cultural programs will steal the heart of the audience.



DEPARTMENTAL MEETINGS

SL.NO	MEETINGS	DATE
1	IV Year EIE& MECHACTRONICS Class committee meeting(On Line Mode)	3/10/2020
2	III Year EIE& MECHACTRONICS Class committee meeting(On Line Mode)	3/10/2020
3	II Year EIE& MECHACTRONICS Class committee meeting(On Line Mode)	3/10/2020
4	III Year EIE& MECHACTRONICS Class committee meeting(On Line Mode)	07/11/2020
5	II Year EIE& MECHACTRONICS Class committee meeting(On Line Mode)	08/11/2020
6	EIE& MECHACTRONICS Staff meeting(On Line Mode)	19/09/2020
7	EIE& MECHACTRONICS Staff meeting(On Line Mode)	18/10/2020
8	EIE& MECHACTRONICS Staff meeting(On Line Mode)	06/11/2020
9	EIE & MECHACTRONICS Staff meeting	5/01/2021
11	Janani.R (Thesis Submission))	3/10/2020
12	E.Deenadayalan(Viva-Voce)	02/04/2021
13	Janani.R(Viva-voce)	09/04/2021

RESEARCH COLLOQUIUM

S.NO	NAME	DATE	TITLE
1	Janani.R	10/10/2020	Design of Controller for a MIMO Systems



14.PROJECT DETAILS

PROJECT PHASE -1

S.No	Register Number	Name of the Student	Title of the Project	Project Type	Name of the Guide
1	11179G002	Dhakshinamoorthy M	Automatic Over Speed Detection of Vehicles and Alert Systems	Hardware – Demo	Mr. NCA Boovarahan
	11179H016	Vikram A			
2	11179G004	G. Sai Krishna	Control System Design using LabVIEW	Software - Simulation	Mr. S. S. Saravana Kumar
3	11179G003	M. Mohammed Mansoor Aslam	Shift register conveyer Reject Using PLC	Software – Simulation	K. Sugapriya
	11179H012	Mohammed Aziz S			
4	11179G005	B.B.D.N.S.H. Pradyumna	Theft Detection in Sandalwood Areas using Motion Detection	Software - Simulation	Dr. G. P. Sivakumar
	11179H014	T.S.S.K.P. Neeraj			
5	11179H001	M. Balaji	PLC based Multi-dimensional metal plate cutting machine	Software - Simulation	Dr. T. Sundar
	11179H003	E. Manjunath			
6	11179H002	S. Dineshkumar	Wildfire and Bushfire detection device	Software - Simulation	Mr. S.S. Saravana Kumar
	11179H013	S. Tarunkumar			
7	11179H004	DheerajNaraparaju	Study of various Modulation techniques in Analog and Digital Communication systems using LabVIEW	Software - Simulation	Dr. Janani R
8	11179H010	RohitIyengar K G	Wireless Animatronics Hand	Hardware – Demo	Dr. T. Lakshmibai
9	11179H006	K.R. Nishok	CNC Plotter Machine using Arduino	Software - Simulation	Dr. T. Sundar
	11179H008	M. Rahul			
10	11179H007	P. Siva Satya Varma	PLC based Drink Dispenser System	Software - Simulation	K. Saraswathi
	11179H011	S. NageshPavan			
11	11179H009	Ramesh Pavithra	Automatic DIY Hand Sanitizer	Hardware – Demo	K. Saraswathi
	11179H015	Vinushna Vadanala			



PROJECT PHASE -1

ABSTRACT DETAILS

Name of the Student(s)	Abstract
Dhakshinamoorthy M & Vikram A	This project presents the Automatic Over Speed Detection of Vehicles and Alert System. It is developed for Over Speed Detecting of vehicles and alert corresponding vehicles by giving buzzer automatically. Most of the approaches occur human concentration and require lot of effort. Here, a smart vehicle speed monitoring system is proposed using Arduino and IR sensor. The traffic population has increased considerably in India as there is no means to control or monitor the speed of vehicles running on roads. At present, road accidents rates have raised so, there is a necessity for developing a system that detects an over speed vehicles. This system provides high effective in detection of Over Speed Detection. If this smart sensor technology is used the safety parameters, then avoidance of accidents may be attained. The purpose of the proposed project is to decrease high death rates because of accidents on roads.
G. Sai Krishna	This Project presents "Control System Design using LabVIEW". Control systems are a central part of industry and of automation. Control systems plays a key role in every industry for the precise control of the object. With the Increase of Automation in different industries the control systems are computerized. This Project discusses Control System Design and simulation which is performed in the LabVIEW software. The Design and the Simulation interface have advantages of directness and convenient for Measurement, data visualization and Graphs are super straightforward. The Simulation of Control system is performed using the Control Design and Simulation module in LabVIEW Software.
M. Rahul & K.R. Nishok	The aim of the project is to manufacture the designed profile using CNC machine. The profile designed is needed to write a CNC program based on labels, the label mode of program is selected because the programming is too easy even for complicated shapes. CNC's had made revolutionary changes with in manufacturing sector in before days achieving productivity up to the desired level was not possibilities due to lots of drawbacks like complication of shapes and sizes, lack of skilled labors, lots of wastages and seraps due to unexpected mistakes and low-quality levels and accuracy. By using CNC this all draw backs can be overcome and this was our small contribution to show the performance of CNC.

Dheeraj Naraparaju	With the infinite expansion of the field of radio electronics, the transmission of information has become an important part of human life. Modulation and Demodulation are indispensable in the transmission of information. This project discusses the design of a simulation modulation system using
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	<p>LABVIEW language, developed for the illustration of different modulation types in undergraduate virtual instrumentation labs. The hierarchical and modular design scheme and the simulated modulation system designed by virtual instrument technology have the advantages of directness, operability and convenient adjustment of parameters, which are suitable for the experimental teaching.</p>
Ramesh Pavithra & Vinushna Vadanala	<p>An automatic hand sanitizer dispensing machine is automated, non-contact, alcohol based hand sanitizer dispenser, which finds its use in hospitals, work places, offices, schools and much more. Automation is the creation and application of technologies to produce and deliver goods and services with minimal human intervention. Here, an ultrasonic sensor senses the hand placed near it, the Arduino Uno is used as a microcontroller, which senses the distance and the result is the pump running to pump out the hand sanitizer. Here alcohol is used as the disinfectant as it easily vaporizes and doesn't need water to wash off.</p>
M. Balaji & E. Manjunath	<p>To understand the application and importance of the involvement of automation in conventional cutting machine in manufacturing. A cutting machine is available in various shapes and sizes, with small hand-held power cutting systems and to bench mounted and finally floor-mounted models. This project includes the types of cutters, and shop formulas for setting up each operation. Safety plays a critical part in any operation involving power equipment. This also includes procedures for maintaining, and proper setting up the work and methods of selecting various tools, and object holding devices to get a job done safely without causing damage to the equipment, yourself, or someone nearby.</p>
Dinesh Kumar & Tarun Kumar	<p>The purpose of this project is to solve and fix difficulties and time consuming process in Wildfire and Bushfire. It also finds out wildfire at early starting stages. It can able to give information about fire spreading locations at starting stages. In every year we are facing mass and uncontrolled fires happening at biodiversity areas. These fires go uncontrollable at certain stages. This system will help us to find and locate Wildfire and Bushfire before it reaches uncontrollable stage</p>
Mohammed Aziz.S & Mohammed Monsoor Aslam M	<p>This project presents the design and implementation of a controller. This paper describes conveyor belt & reject station this programming example should fully explain the function of shift registers. Ladder will be our PLC programming language. The conveyor belt is fixed with sensor B which detects the product and sensor A which detects if it is too large and needed to be rejected. The product is tracked along the conveyor belt & when under reject station the Reject blow off will expel the bad product.</p>
S. Nagesh Pavan & P. Siva Satya Varma	<p>This project presents the Simulation of Automatic Drink Dispenser System Using PLC. Now a day's everything is becoming automation in the world. Automation is the technology by which a process or procedure is performed with minimal human assistance In order to make less</p>



	<p>human assistance. In this project we have introduced an automatic drink serving machine. This will serve the drink according to the input which is given by user. A drink dispenser is an obvious solution to lots of problems in a food service business. Reducing the number of employees and allow them to be more efficient by allowing customers to serve themselves.</p>
T.S.S.K.P.Neeraj & B.B.D.N.S.H. Pradyumna	<p>Nowadays there are many thefts happening all over the world and especially in the field of sandalwood plantations. In order to reduce and try to eradicate the thefts happening, here we will detect the motion of a moving body (human being) with the help of PIR sensor and Ultrasonic sensor. Here the PIR sensor detects the motion of the body and the ultrasonic sensor helps us to detect the distance of that moving body. So for knowing the result of these sensors we definitely need a buzzer which gives an alarm sound according to its switch state. Here the main theme of our project is to reduce thefts by getting accurate information when required.</p>
RohitIyengar K G	<p>This project presents a robotic hand which is similar to the Human hand controlled by the human. It mainly consists of a robotic part and a glove part. Any person will control the robotic hand by using the glove part. It is mainly used in the industries where high degree of temperature or harmful gases/ materials is involved. In those cases they use this robotic hand. Now a day many of the industries use this robotic hand for the safety purpose of the people who working with harmful chemicals that are injurious to the skin. Wireless Animatronics Hand is mainly implemented based on the wireless Communication technology. Basically people those want to use Wireless Animatronics Hand can be able to operate at any kind of situations or environments from a far safe distance. Operating accuracy and efficiency will be high and people working in any fields can make sure of their life easier and safer using this latest wireless technology. Thus whenever a flex sensor is bent or pressed, an analog signal is produced which is passed through the Arduino Uno and sent to the transmitter after converted into PWM signal. The transmitted signal is then received by a receiver connected with other Arduino Uno and this signal is passed to the servo motor to run accordingly to control the Animatronics Hand.</p>



PROJECT PHASE – II

S.No	Register Number	Name of the Student	Title of the Project	Project Type	Name of the Guide
1	11179G002	Dhakshinamoorthy M	Fingerprint based Biometric Attendance System	Hardware/ Demo	Mr. N.C.A.Boovarahan
2	11179G003	M. Mohammed Mansoor Aslam	Design of 3D Printer	Hardware/ Demo	Mrs. K. Sugapriya
3	11179G004	G. Sai Krishna	Controller Design for Temperature Control of Heat Exchanger System	Software/ Simulation	Dr. Janani R
4	11179H006	K.R. Nishok	Automatic Waste Segregation	Hardware/ Demo	Mr. S.S. Saravana Kumar
	11179H008	M. Rahul			
5	11179H004	DheerajNaraparaju	Technological Advances In LPG Sector With Raspberry Pi	Hardware/ Demo	Dr. G. P. Sivakumar
	11179H014	T.S.S.K.P. Neeraj			
6	11179H016	Vikram A	Automatic Toll Collection System using RFID	Hardware/ Demo	Mr. N.C.A. Boovarahan
7	11179H013	S. Tarun Kumar	Remotely Controlled Underwater Robot with Surveillance System	Hardware/ Demo	Mr. S. S. Saravana Kumar
	11179H002	S.Dinesh Kumar			
8	11179H012	Mohammed Aziz S	Weather Station Using Arduino	Hardware/ Demo	Mrs. K. Sugapriya
9	11179H010	Rohit Iyengar K G	Quad Legged Surveillance Robot	Hardware/ Demo	Dr. T. Lakshmbai
10	11179H007	P.Siva Satya Varma	Gesture Controlled Pick and Place Robotic Vehicle	Hardware/ Demo	Mrs. K. Saraswathi
	11179H011	S. Nagesh Pavan			
11	11179H005	K. Neeja	Encryption and Decryption of Text File using LabVIEW	Software/ Simulation	Dr. T. Sundar
12	11179H001	M. Balaji	Automatic Pesticide Sprayer Robot	Hardware/ Demo	Dr. T. Sundar
	11179H003	E. Manjunath			
13	11179H009	Ramesh Pavithra	Solar Powered Water Trash Collector	Hardware/ Demo	K. Saraswathi
	11179H015	Vinushna Vadanala			



PROJECT PHASE -II ABSTRACT DETAILS

Name of the Student(s)	Abstract
Dhakshinamoorthy M	<p>In industrial and domestic applications attendance registering is important at each and every moment. Many face a lot of problems due to lack of proper attendance monitoring system. In this project we use Fingerprint Sensor (R307) which senses the Fingerprint of a particular person; a buzzer and Led gets activated whenever a person places his finger on the sensor. Then the fingerprint is stored in cloud with id no. Many people can store their fingerprints. Then next time any person puts their finger on the sensor it checks there are any matching fingerprints or not. If his fingerprint matches with any of the stored fingerprints then the LCD display shows which person it is and the time & date of checking. In this model, all the fingerprints are stored each and every time someone places his finger. User can connect the system wirelessly with the cloud and monitor the process. When the app is running on the computer, data sent by R307 fingerprint module is received and stored on the cloud and displayed in serial monitor and 16*2 LCD display module. This study has mainly focused to develop IOT based biometric attendance system that is able to keep record of attendance and count the data for daily purpose. In this project we are going to design Fingerprint Sensor Based Biometric Attendance System using Arduino. Simply we will be interfacing fingerprint sensor with Arduino, LCD Display & RTC Module to design the desired project. In this project, we are using fingerprint Module and Arduino to take and keep attendance data and records. Attendance systems are commonly used systems to mark the presence in offices and schools. From manually marking the attendance in attendance registers to using high-tech applications and biometric systems, these systems have improved significantly.</p>
M. Mohammed Mansoor Aslam	<p>3D printing called as desktop fabrication. It is a rapid prototyping process whereby a real object can be created from a 3D design. A 3Dprinter machine uses a CAD model for rapid prototyping process. The 3d design is stored in as a STL format and after that forwarded to the 3D printer. It can use a wide range of materials such as ABS, PLA, and composites as well. 3D printing is one kind of rapidly developing and cost optimized form which is used for rapid prototyping. The 3D printer prints the CAD design layer by layer forming a real object. 3Dprintingprocessisderived from inkjet desktop printers in which multiple deposit jets and the printing material, layer by layer derived from the CAD 3D data. 3D printing is diversifying and accelerating our life, letting various qualities of products to be synthesized easier and faster. Three dimensional (3D) printing has the ability to impact the transmission of information in ways similar to the influence of such earlier technologies as photocopying. This identifies sources of information on 3Dprinting, its technology, required software and applications. Along 3D printing, companies are able to extract and innovate new ideologies and various design replications with no time</p>



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	or tool expense.
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Vikram A	<p>ATCS is an Automated Toll Collection System used for collecting tax automatically. In this we do the identification with the help of radio frequency. A vehicle will hold an RFID tag. This tag is nothing but unique identification number assigned. This will be assigned by RTO or traffic governing authority. In accordance with this number we will store, all basic information as well as the amount he has paid in advance for the TOLL collection. Reader will be strategically placed at toll collection center. Whenever the vehicle passes the toll collection center, the tax amount will be deducted from his prepaid balance. New balance will be updated. In case if one has insufficient balance, his updated balance will be negative one. To tackle this problem, we are alarming a sound, which will alert the authority that this vehicle doesn't have sufficient balance and that particular vehicle can be trapped. As vehicles don't have to stop in a queue, it assures time saving, fuel conservation and also contributing in saving of money. Automatic Toll Collection systems have really helped a lot in reducing the heavy congestion caused in the metropolitan cities of today. It is one of the easiest methods used to organize the heavy flow of traffic.</p>
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<p>Ramesh Pavithra & Vinushna Vadanala</p>	<p>As we know the population of India increasing day by day and due to this the pollution also gets increased. The garbage which is produced by the people is the main cause of pollution. The most of the garbage is dumped or just thrown into the lake, river or other water resources. The garbage which is thrown in the water such as lakes, rivers and other water resources due to which the water is getting polluted and because of which we cannot be able to use that water for our daily use and ultimately getting wasted. In many of cities of India this is the major problem. To overcome this water pollution our project “Solar powered water trash collector” is very helpful by collecting the garbage which are floating on the surface of water. This project is works by navigation and controlling that saves the manpower. This project is also efficient, works on the solar energy and no external power supply is required. A battery of 12v is used to store the energy which is collected by the solar plate, then this battery will use this stored energy to operate the complete boat.</p>
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<p>S. Tarun Kumar & S.Dinesh Kumar</p>	<p>Remotely operated underwater vehicles or ROVs are underwater robots that are used in science, entertainment, military and offshore oil industries. Countries consisting many water bodies and prone to maritime incidents ROVs can be very useful in rescue missions. Their main function is to interact with the environment under the water in various ways. In this project work we built a ROV and equipped it with a surveillance system. Our ROV will be quite useful beside rescuers by monitoring the underwater and sending the video. It can also be used in military, scientific research film making under the water and monitoring underwater industrial structures and underwater network devices. The main objective is to create an interface that allows a person to drive a robot in water and capturing the view through a night camera. Mobile robotic platforms are becoming more and more popular, both in scientific research and in commercial settings. Robotic systems are useful for going places or performing tasks that are not suitable for humans to do. Robots are often able to precisely perform complicated or dangerous tasks with little or no human involvement. However, before a mobile robotic</p>
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	<p>platform is able to be deployed, it must have a way of identifying where it is in relation to objects and obstacles around it. Often, this is being performed by using a visual system, such as a camera. However, just wiring a camera onto a robot is not sufficient. With many of the tasks that are given to a robotic system to perform, a great deal of precision is required to satisfactorily complete these tasks.</p>
Mohammed Aziz S	<p>Arduino is an open-source platform that enables us to quickly build electronics projects. It consists of both a physical Programmable Circuit Board (PCB) and a piece of software (an Integrated Development (IDE) that works on all known operating system. We use the Arduino to develop this project. In this project we are putting together a weather station using a variety of sensors.</p>
Rohit Iyengar K G	<p>This project presents the design and implementation of a Quad Legged Surveillance Robot. As the project name suggests, it is mainly used for surveillance in the risky or unknown environments where a person cannot go such as- Unknown archaeological caves, post and pre-war zones, terrorist hijacked buildings, fire accident buildings to look for survivors, any radioactive or chemical accidents in plants to inspect the situation or to look for any survivors. That's where this project comes to aid, by providing mobile surveillance. This robot is a light weight, low budget and powerful surveillance tool that can be prepared in mass or by modifying it further to be used in all the situations where powerful reactions and some load capacity is required. This robot has 4 legs with 3 servo motors for each leg and is controlled by Arduino microcontrollers and potentiometers. This robot works on 5v dc input power supply. Whenever a servo motor connected with a potentiometer of a particular joint of the leg in the robot is varied, corresponding servo motor runs or rotates as per the variation of the potentiometer. Similarly all the leg joints of this Quad Legged Robot work as same method. Additionally a webcam attached on the top of the robot body provides live surveillance.</p>
S. Nagesh Pavan & P. Siva Satya Varma	<p>As we continue to automate the world to make our lives easier, the fundamental nature of work is changing. Manpower required in factories has reduced significantly because most of the work is now being done by machines. In simple words human arms are being replaced by robotic arms. Consequently robotic arm takes on the burden of manual, repetitive tasks, freeing people to achieve their potential. Also these automated arms produce better results, reduces injury and drives industry further. Most importantly using them has also helped in making processes more efficient and less noisy. Availability of robotic arms for monotonous and dangerous tasks has reserved human hands for critical and safer work, resulting in elevation</p>



	<p>of their value. This article aims to provide you with working of it, parts comprising it, its applications and projects related to this incredible technology. This paper discusses the design and fabrication of a pick and place robotic arm. The robotic arm is intended for educational purposes. In this project we are designing the robotic arm for improved accuracy by using dc motors to power the joints in the robotic arm. We are designing the robotic arm using keil micro vision software. In this project we are going to fabricate robotic arm which performs the pick and place operation. The project covers the procedure for selection of the motors used to power each joint of the arm in details. We are selecting Aluminum to fabricate the components of the robotic arm. The torque exerting at each of the joints is going to calculate in this project and a dc motor with the required torque rating is being selected for each joint. Selecting a suitable dc motor controller and control software for the Robotic arm is developing using C programming language.</p>
K.Neeja	<p>Data encryption is employed to provide security to confidential data which thereby denies any unauthorized access. In this project, an efficient design is implemented to encrypt any text file and decrypt it using FFT and IFFT algorithms respectively. The design is implemented in LabVIEW software. The basic operations include encryption in encryptor module, transmission through a communication medium to the decryptor module and the retrieval of original text file at the output of decryptor module. A similar encryption-decryption module is also developed for secure transmission of audio files in a real-time scenario by interfacing myRIO hardware.</p>



15. PUBLICATIONS

JOURNAL

S.NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	JOURNAL DETAILS	INDEXING
1	K.Saraswathi Assistant Professor	Automatic Filling System Using PLC	International Journal of Research Publication and Reviews (IJRPR)	Peer Reviewed
		Detection of Plant Leaf Disease Using Image Processing Approach	International Journal of Scientific Development and Research (IJS DR)	
2	T.Sundar Assistant Professor	Model of Converter System of Interleaved Buck Boost with Proportional Integral Derivative	International Journal of Research Publication and Review	Peer Reviewed
		Design of Interleaved System of Cuk Converter Applied in Controller of Proportional Resonance		
3	Janani R Assistant Professor	Modeling and Control of Tray Temperature Along with Column Pressure in a Pilot Plant Distillation Column	Springer Nature, Computer Science	SCOPUS
		Study on Simulation and Design of Various PI Controller for a Non-Interacting Systems: An Approach to Conventional and Computational Algorithms	Current Approaches in Science and Technology Research	BOOK CHAPTER
		Waste Heat Management System for Hybrid Vehicles Using Thermoelectric Generator	Advanced Science Engineering and Medicine	SCOPUS
		Digital System Design	LabVIEW - A Flexible Environment for Modeling and Daily Laboratory Use	BOOK CHAPTER
4	T. Lakshmi Bai Assistant Professor	Implementation of Energy Efficient Green Cooling Unit integrating with IoT for Heat Suppression	International Journal of Multidisciplinary Educational Research	UGC
		Design and Implementation of a Smart Energy Measurement System	International Journal of Multidisciplinary Educational Research	UGC



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		Design and experimental study of Automatic Colour Sorting by a Robotic arm System	International Journal of Scientific Research in Engineering and Management	Peer Reviewed
5	G.Padmanabha Sivakumar Assistant Professor	Implementing Technological Advances In LPG Sector For Gas Leakage Detection Using Raspberry-Pi Controller	International Research Journal of Modernization in Engineering Technology and Science	Peer Reviewed
6	S. S. Saravana Kumar Assistant Professor	A Novel Approach for Improved Load Balancing and Interference Reduction in Wireless Networks using OFDMA	IOP – Conference Series – Materials Science and Engineering - October 2020	SCOPUS
		Home Appliances Control Using Google Assistant and BLYNK	International Journal of Research Publication and Reviews	Peer Reviewed
7	K.Sugapriya Assistant Professor	UWB Microstrip patch antenna for wireless sensor applications	Turkish journal of Physiotherapy and Rehabilitation	SCOPUS
		Review of Ultrawide band Micro strip patch antenna as a wireless sensor	International Journal Of Innovative Research In Technology	Peer Reviewed
8	N C A Boovarahan Assistant Professor	Power Allocation Based on Channel State Information in Massive MIMO System	IOP – Conference Series – Materials Science and Engineering - October 2020	SCOPUS
		Vehicle to Everything an Introduction	International Journal of Research Publication and Reviews	Peer Reviewed

NATIONAL CONFERENCE

S.NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	CONFERENCE DETAILS
1	T. Lakshmbai Assistant Professor	Role of Industries in Technical Education	National Virtual 8th ISTE TN Section Convention on “Education Technology In New Normal During Feb 2021, Thiyagarajar Polytechnic College,Salem



INTERNATIONAL CONFERENCE

S.NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	CONFERENCE DETAILS
1	Janani R Assistant Professor	Analysis Of Different Controllers For Pilot Plant Binary Distillation Column	5 th International Scientific Conference, "Conference on Mechanical Engineering Technologies and Applications", University of East Sarajevo, Bosnia and Herzegovina
2	T. Lakshmibai Assistant Professor	Protection methods against threats in Different layers of merging cognitive radio networks	International virtual conference on futuristic materials (ICFM-20) by Dept of Physics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Uttar Pradesh, India.
		A Brief view on Telemedicine in today's COVID 19 Scenario - Challenges and Opportunities in India	International Virtual Conference on International Conference on Recent Emerging Science & Engineering Advanced Research in Communication & Healthcare - "IC-RESEARCH 2021" organized by Dept of BME & ECE, AVIT, Vinayaga Missions Research Foundation, Tamilnadu, India



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		PLC Based Elevator Control System Design and its Performance	International level Virtual Conference on International Conference on Disruptive Technologies in Maritime Sector: Industry 4.0 - "ICDTMS 2021" organized by Department of Marine Engineering, AMET Deemed to be University, Chennai, Tamilnadu, India
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16. PROFILE OF DEPARTMENT LIBRARY

S.NO	ACC.NO	TITLE OF BOOKS
1.	B111409	Electronic Devices & Circuits : Principles & Applications
2.	B111563	Electronic Devices & Circuit Theory
3.	B111643	Industrial Electronics : Application For Programmable Controllers, Instrumentation
4.	B111770	Digital Signal Processing
5.	B112188	Electronic Devices and Circuits
6.	B112192	Signals and Systems
7.	B112472	Digital Signal Processing
8.	B113012	Millman's Electronic Devices and Circuits
9.	B114237	Power Electronics: Circuits, Devices and Applications
10.	B114238	Programmable Logic Controllers :Principles and Applications
11.	B114241	Process Control Instrumentation and Technology
12.	B114247	Measurement Systems: Application and Design
13.	B114251	Embedded Systems :Architecture, Programming and Design
14.	B114255	Digital Electronics
15.	B114256	Computer Control of Process
16.	B114260	Instrumental Methods of Analysis
17.	B114263	Process Control Systems and Instrumentation
18.	B114273	Digital Signal Processing
19.	B114277	Biomedical Instrumentation



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20.	B114281	Control Systems Engineering
21.	B114282	Sensors and Transducers
22.	B114284	Transducers and Instrumentation
23.	B114287	Programmable Logic Controllers
24.	B114292	Power Electronics
25.	B114298	Industrial Instrumentation and Control
26.	B114303	Biomedical Instrumentation and Measurements
27.	B114304	Digital Instrumentation
28.	B114308	Linear Integrated Circuits
29.	B114315	Industrial Instrumentation
30.	B114317	Digital Control Systems
31.	B114322	Process Control : Modeling, Design and Simulation
32.	B114328	Control System Design
33.	B96611	Control Systems
34.	B110741	Elements of Electronic Instrumentation and Measurement
35.	B110754	Modern Electronic Instrumentation and Measurement Techniques
36.	B111206	Principles of Industrial Instrumentation
37.	B111327	Matlab Demystified: Basic Concepts and Applications
38.	B61537	Applied Electronics-Vol. 1:Electronic Devices and Circuits
39.	B6902	Digital Logic and Computer Design
40.	B105529	Digital Electronics: An Introduction to Theory and Practice
41.	B103935	Modern Control Engineering
42.	B58919	Power Electronics



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43.	B62316	Course In Electrical ,Electronic Measurements And Instrumentation
44.	B55219	Digital Signal Processing: Principles, Algorithms and Applications
45.	B61055	Elements of Management
46.	B62328	Instrumentation Measurement and Analysis
47.	B64043	Direct Current Machines
48.	B65174	Control Systems: Principles and Design
49.	B61428	Principles of Management
50.	B40440	Signals and Systems
51.	B56749	Solid State Electronic Devices
52.	B63765	Handbook of Biomedical Instrumentation
53.	B96622	Microprocessors and Microcontrollers
54.	B100556	Microcontroller & Applications
55.	B66386	Digital Signal Processing: A Computer Based Approach
56.	B57364	Text Book Of Electrical Technology- Vol.3: Transmission , Distribution and Utilization
57.	B94387	Signals and Systems: Analysis and Using Transform Methods and Matlab
58.	B7024	Microprocessor Architecture Programming and Applications with the 8085
59.	B6201	Circuit Theory : Analysis and Synthesis
60.	B103655	Microprocessors Theory and Applications : Intel and Motorola
61.	B102774	An Embedded Software Primer
62.	B100237	Transformers and Induction Machines
63.	B94243	Verilog HDL: A Guide to Digital Design and Synthesis



64.	B98544	Course in Mechanical Measurements and Instrumentation
65.	B113624	Microprocessor and Microcontroller
66.	B114294	Chemical Process Control: An Introduction to Theory and Practice
67.	EIE - 1	Advanced Control Theory
68.	115980	Circuit & Networks : Analysis & Synthesis
69.	115982	Engineering Ethics : Includes Human Values
70.	115986	Perry's Chemical Engineers' Handbook (Reference Document)
71.	115987	Fundamentals of Digital Image Processing
72.	115989	Handbook of Analytical Instruments
73.	115997	Digital Electronics
74.	B57318	Electronic Devices and Circuits: Applied Electronics. Vol 1
75.	B58677	Microelectronics
76.	B60332	Electronic Communications
77.	B66513	Digital Signal Processing
78.	B67480	Digital Instrumentation
79.	B67841	Neural Engineering: Computation, Representation and Dynamics in Neurobiological Systems
80.	B95139	Measurement & Instrumentation Principles
81.	B97252	Integrated Electronics : An Analog and Digital Circuits and Systems
82.	B97275	Automatic Control Systems
83.	B97578	Digital Signal Processing : A Computer Based Approach
84.	B97885	Higher Engineering Mathematics
85.	B98868	Neural Networks : A Comprehensive Foundation



86.	B100569	Microprocessor Architecture, Programming and Applications with The 8085
87.	B103793	Electronic Instrumentation
88.	B105705	Electronic Circuits : Discrete & Integrated
89.	B109081	Neural Networks for Pattern Recognition
90.	B111571	Introduction to Digital Signal Processing
91.	B113352	Let Us C
92.	B113795	Linear Integrated Circuits
93.	B114756	Fuzzy sets & Fuzzy Logic
94.	B118186	Embedded Systems Design : An Introduction to Processes, Tools & Techniques
95.	B118200	Industrial Instrumentation
96.	B118224	Programming in Matlab For Engineers
97.	B118245	Instrumentation & Control
98.	B118272	Electrical Measurements & Measuring Instruments
99.	B118293	Biomedical Instrumentation
100.	B118302	Computer Control of Process
101.	B118312	Discrete – Time Control Systems
102.	B118314	Gate 2012 : Instrumentation Engineering
103.	EIE – 2	Sweep Through Your Interviews by G.Vidya Shankar, Published by New Century Book House (P) Ltd., Chennai.
104.	B118502	Modern VLSI Design
105.	B118998	Robotic Engineering: An Integrated Approach
106.	B118999	Transducer Engineering



107.	B119001	Digital Electronics: Principles & Applications
108.	B119004	Introduction to Robotics
109.	B119005	Matlab & its Applications in Engineering
110.	B119011	Elements of Robotics Systems
111.	B119012	Microprocessors & Microcontrollers: Architecture, Programming & Interfacing Using 8085,8086,8051
112.	B119016	Signals & Systems
113.	B119021	Principles of Nano- Optics
114.	B119402	Microprocessor 8086 Programming & Interfacing
115.	B119426	Advanced Microprocessor
116.	B119462	Signals & Systems
117.	B119707	Microcontrollers: Principles & Applications
118.	B119718	Problems & Solutions of Control Systems: With Essential Theory
119.	B119721	Electric Circuit Theory
120.	B119726	Microcontrollers Architecture, Programming, Interfacing and System Design
121.	B119730	Microcontrollers & Applications
122.	B119737	Mastering Matlab – 7
123.	B119945	Industrial Robotics: Technology, Programming
124.	B119947	Nano & Micro materials
125.	B119948	Theory of Applied Robotics: Kinematics, Dynamics Control
126.	B119950	Aircraft Instruments: Principles & Applications
127.	B119954	Aircraft Systems
128.	B119955	Aircraft Safety: Accident Investigations Analysis & Applications



129.	B119962	Programmable Logic Control: Principles & Applications
130.	B119964	Process Control: Concepts, Dynamics & Applications
131.	B119967	Robotics: Control, Sensing, Vision & Intelligence
132.	B119972	Power Plant Instrumentation
133.	B119974	Robotics Technology & Flexible Automation
134.	B119975	VLSI Technology
135.	B120252	Foundations of Mems
136.	B120256	Robotics
137.	B120339	Digital Electronics
138.	EIE – 3	Gate – IE
139.	B61722	Drydens Outline of Chemical Technology
140.	B108471	8051 Microcontroller
141.	B110757	Process Control
142.	B113505	Electronic Communications Systems: Fundamentals Through Advanced
143.	B114267	Process Control Engineering
144.	B119395	Fundamentals of Neural Networks: Architectures, Algorithms, & Applications
145.	B123641	Analytical Instruments
146.	B123671	Fundamentals of Industrial Instrumentation & Process Control
147.	B123715	Virtual Instrumentation Using Labview: Principles & Practices of Graphical Programming
148.	B123825	Digital Signal Processing
149.	B125704	Virtual Instrumentation Using Labview



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150.	B126553	Principles of Communication
151.	EIE - 4	Automatic Process Control (ECKMAN)
152.	EIE - 5	Elements of Fuels, Furnaces & Refractories (O.P Gupta)
153.	EIE - 6	Process Control (Harriot)
154.	EIE – 7	Process Systems Analysis and Control (COUGHANOWR)
155.	EIE - 8	Unit Operations Of Chemical Engineering (Mccabe, Smith, Harriott)
156.	EIE – 9	Computer Control Process (Shanthi Sasidharan)
157.	EIE -10	Programmable Logic and Distributed Control Systems
158.	130134	Fundamentals Of Micro Fabrication: The Science of Miniaturization (Madou, Marc)
159.	123892	Mems & Microsystems Design & Manufacture (Hsu, Tai-Ran)
160.	103806	MEMS (Mahalik, Nitaigur Premchand)
161.	117973	Foundation of Mems (Liu, Chang)
162.	B52231	Text Book of Electrical Technology – Vol.2 AC And DC Machines
163.	B55325	Fundamentals of Electrical Drives
164.	B56508	VLSI Design
165.	B66502	Thyristorised Power Controllers
166.	B67483	Electrical Machines: Dc Machines, AC Machines & Polyphase Circuits
167.	B100167	Power Electronics: Circuits, Devices and Applications
168.	B113802	Electronics & Microprocessors
169.	B117124	Electronics Devices & Circuits
170.	B119420	Analog & Digital Communication



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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) μ A	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: Mrs.K.Sugapriya & Mr.S.S.Saravana Kumar

Lab Instructor: Mrs.K.Komathy

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



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Lab Incharge: Mr.G.P.Sivakumar & Mr.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: Mrs.K.Saraswathi

Lab Instructor: Mr.G.Subramaniyan

Virtual Instrumentation Lab Incharge: Ms.Janani.R

Lab Instructor: Ms.K.Soundari



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: Mr.T.Sundar

Lab Instructor: Mr.G.Subramaniyan

TRANSDUCER AND INDUSTRIAL INSTRUMENTS LAB

S.NO	NAME OF THE EQUIPMENT	Quantity	TOTAL COST
1	Thermocouple Module (ITB005CE)	1	7596.55
2	Rtd Module(ITB006CE)	1	7210.58
3	Thermistor Module(ITB06ACE)	1	8043.92
4	Displacement Measurement Trainer Using Lvdt(ITB012CE)	1	11302.72
5	Pressure Measurement Trainer(ITB016CE)	1	13052.74
6	LDR / PHOTO DIODE / PHOTO Transistor Trainer(ITB027CE)	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: Mrs.T.Lakshmibai

Lab Instructor: Mr.K.Vinayagamoorthy



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18. GUEST LECTURES AND VISITING FACULTY DETAILS

S.No.	Name of the expert & Address	Topic	Date
1	Mr. Srinivasa Raghavan	Robotics in Automation	17.10.2020
2	Mr.Aravind Ganesan, Customer Relationship Manager Confidence Petroleum India, Nagpur	Life begins after Engineering. Mastery in communication.Self-brand value	25.01.2021



19. STUDENTACTIVITIES

IN-PLANT TRAINING

S.No.	Register No.	Name of the student	Duration	Place / Industry
1	1199H021	VUPPALA ABHINAV KUMAR	25-01-2021	Hyderabad

INTERNSHIP

S.No	Register No.	Name of the student	Duration	Place / Industry
1	11189H002	S Aswin	05-06-2021- 30-07-2021	My Assessment PSG STEP, PSG TECH CAMPUS, Coimbatore,Tamilnadu. India. 641004 3.Bangalore
2	11189H003	Borlaa siva kalyani	5/6/2021- 30/7/2021	My Assessment PSG STEP, PSG TECH CAMPUS, Coimbatore,Tamilnadu. India. 641004
3	11189H004	Kailash R S	5/6/2021- 30/7/2021	My Assessment PSG STEP, PSG TECH CAMPUS, Coimbatore,Tamilnadu. India. 641004
4	11189H006	Kovvali Naga Bala Satya Subrahmanya Lokesh Preetham	5/6/2021- 30/7/2021	My Assessment PSG STEP, PSG TECH CAMPUS, Coimbatore,Tamilnadu. India. 641004



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5	11189H007	Mocharla Ruthvik Sai	5/6/2021- 30/7/2021	PSG STEP, PSG TECH CAMPUS, Coimbatore,Tamilnadu. India. 641004
6	11189H009	Ramannagari Nitish	1/8/2020 01.10-2020	CSE e-Governance India Limited Automatic Service Technician
7	11189H011	Repala Kireeti	5/6/2021- 30/7/2021	PSG STEP, PSG TECH CAMPUS, Coimbatore,Tamilnadu. India. 641004
8	11189H012	Samayam Hemanth Sai	5/6/2021- 30/7/2021	PSG STEP, PSG TECH CAMPUS, Coimbatore,Tamilnadu. India. 641004
9	11189H014	Surimani Niteesh	5/6/2021- 30/7/2021	PSG STEP, PSG TECH CAMPUS, Coimbatore,Tamilnadu. India. 641004
10	11189G001	Kashigari sravan kumar	5/6/2021- 30/7/2021	PSG STEP, PSG TECH CAMPUS, Coimbatore,Tamilnadu. India. 641004

INDUSTRIAL VISITS

S.No.	Department	Name of the Company	Date
NIL			

Paper presented by the Students

S.No.	Name of the student	Paper presentation	Place	Date
NIL				



Seminars / Conferences / Workshop / Training attended by the Students

Sl. No.	Name of the students	Nature of the events	Place	Date
1	Gangaraju Lohith Kumar	Webinar – Slam Robotics	Dept of EIE, SCSVMV and Pantech E Learning Chennai	01-06-2021
2	P. Sakthivel	Webinar – Slam Robotics	Dept of EIE, SCSVMV and Pantech E Learning Chennai	01-06-2021
3	K.Baaavesh Reddy	Webinar – Slam Robotics	Dept of EIE, SCSVMV and Pantech E Learning Chennai	01-06-2021
4	Singamsetti Chaitanya Venkat	Webinar – Slam Robotics	Dept of EIE, SCSVMV and Pantech E Learning Chennai	01-06-2021
5	Borlaa_siva kalyani	virtual event	Vijayawada	13-03-2021
		Webinar – Slam Robotics	Dept of EIE, SCSVMV and Pantech E Learning Chennai	01-06-2021
		SDP – Different Phases of Prototype Development	IIC-IIMT, IIMT College of Engg, Greater Noida.	14-06-2021 to 15-06-2021



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		Webinar - MELSEC IQ-R PLC	CVR College of Engineering, Hyderabad and MITSUBISHI Electric Factory Automation training center.	15-06-2021 to 16-06-2021
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20. STUDENS FEEDBACK

FEED BACK 2020

FEED BACK



ODD SEM

EIE DEPT



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Student Feedback Staff wise Summary (odd Sem2020)

S.no	Prefix	Name	Sem	Subject_Name	Excellent	Very Good	Good	Average	Poor	NoOf Stud	Point	Score
1	Ms.	K.SARASWATHI	5	PROFESSIONAL ELECTIVE-I ANALYTICAL INSTRUMENTATION	1	0	0	0	0	1	10	100
2	Ms.	K.SARASWATHI	5	ANALYTICAL INSTRUMENTATION	6	3	2	0	0	11	96	87.27
3	Ms.	K.SARASWATHI	7	Computer Control of Process	2	0	0	0	0	2	20	100
4	Ms.	K.SARASWATHI	7	Robotics and Automation	7	2	2	0	0	11	98	89.09
5	Ms.	K.SARASWATHI	3	Automatic control system	7	6	12	1	0	26	194	74.62
6	Dr.	SUNDAR.T	3	Digital Electronics	17	13	12	2	0	44	354	80.45
7	Dr.	SUNDAR.T	7	Instrumentation and Control in Petrochemical Industries	2	0	0	0	0	2	20	100
8	Dr.	SUNDAR.T	7	Principle of Management & Professional Ethics	2	0	0	0	0	2	20	100
9	Dr.	SUNDAR.T	3	Sensors & Transducers	8	7	10	1	0	26	200	76.92
10	Ms.	JANANI R	5	Open Elective -1 PLC and Data Acquisition Systems	6	11	12	2	1	32	230	71.88
11	Ms.	JANANI R	5	Process Control Instrumentation	1	0	0	0	0	1	10	100
12	Ms.	JANANI R	7	Virtual Instrumentation	4	0	0	0	0	4	40	100



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13	Ms.	JANANI R	7	PROJECT WORK PHASE-I	2	0	0	0	0	2	20	100
14	Ms.	JANANI R	7	Elective - I(Virtual Instrumentation)	5	1	5	0	0	11	88	80
15	Ms.	JANANI R	7	PLC AND DATA ACQUISITION SYSTEMS	5	2	4	0	0	11	90	81.82
16	Dr.	T.LAKSHMIBAI	5	Power Electronics and Industrial Drives	1	0	0	0	0	1	10	100
17	Dr.	T.LAKSHMIBAI	3	Sensors & Actuators	9	6	4	0	0	19	162	85.26
18	Dr.	T.LAKSHMIBAI	5	POWER ELECTRONICS AND INDUSTRIAL DRIVES	6	4	1	0	0	11	98	89.09
19	Dr.	G P SIVAKUMAR	3	Digital Electronics	9	7	1	0	0	17	152	89.41
20	Dr.	G P SIVAKUMAR	5	PRINCIPLE OF COMMUNICATION	7	0	1	0	0	8	76	95
21	Dr.	G P SIVAKUMAR	7	EMBEDDED SYSTEMS	8	0	5	0	0	13	110	84.62
22	Dr.	G P SIVAKUMAR	7	PROJECT WORK PHASE-I	5	1	4	1	0	11	86	78.18
23	Mr.	SARAVANA KUMAR.S.S	3	Electronic Devices and Circuits	12	6	1	0	0	19	174	91.58
24	Mr.	SARAVANA KUMAR.S.S	7	VLSI Design	2	0	0	0	0	2	20	100
25	Mrs.	K.SUGAPRIYA	3	Digital Electronics	4	0	2	0	0	6	52	86.67
26	Mrs.	K.SUGAPRIYA	3	DIGITAL ELECTRONICS	2	4	1	0	0	7	58	82.86
27	Mrs.	K.SUGAPRIYA	5	Control System	5	5	2	0	0	12	102	85



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28	Mr.	BOOVARAHAN	3	Digital Electronics	4	1	0	0	0	5	48	96
29	Mr.	BOOVARAHAN	5	Power Plant Instrumentation	1	0	0	0	0	1	10	100



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Student Feedback Class wise Summary III year (EIE) (2018-2022)

S.No	Name	Sem	Subject Name	No of Students	%
1	Mrs.K.Saraswathi	5	Professional Elective- I Analytical Instrumentation	1	100
2	Dr. D.Vanitha	5	Open Elective - I Electric Hybrid Vehicle Technology	1	100
3	Mrs.K.Sugapriya	5	Control System	1	100
4	Mrs.Janani.R	5	Process Control Instrumentation	1	100
5	Dr.T.Lakshmibai	5	Power Electronics and Industrial Drives	1	100
6	Mr.N C A Boovarahan	5	Power Plant Instrumentation	1	100



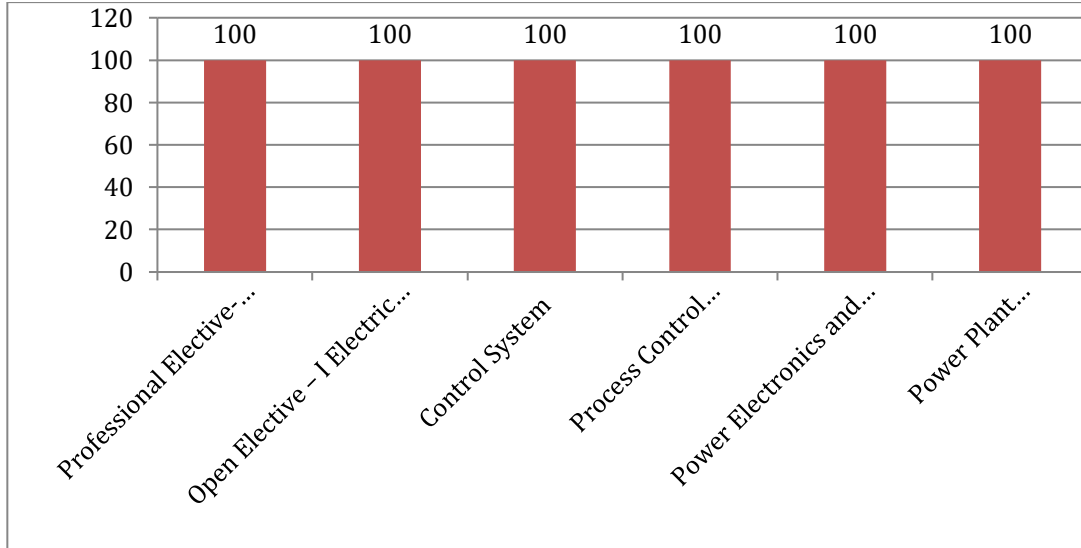
श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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Student Feedback Class wise Summary III year (EIE) (2018-2022)





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Student Feedback Class wise Summary IV year (EIE) (2017-2021)

<u>S.No</u>	<u>Name</u>	<u>Sem</u>	<u>Subject Name</u>	No of Students	%
1	Mr.S S Saravanakumar	7	VLSI Design	2	100
2	Dr. G P Sivakumar	7	Embedded Systems	2	100
3	Dr.T.Sundar	7	Principle of Management & Professional Ethics	2	100
4	Mrs.K.Saraswathi	7	Computer Control of Process	2	100
5	Mrs.Janani.R	7	Elective - I(Virtual Instrumentation) Virtual Instrumentation	4	100
6	Dr.T.Sundar	7	Elective - II(Instrumentation and Control in Petrochemical Industries Instrumentation and Control in Petrochemical Industries	2	100
7	Mrs.Janani.R	7	PROJECT WORK PHASE- I	2	100



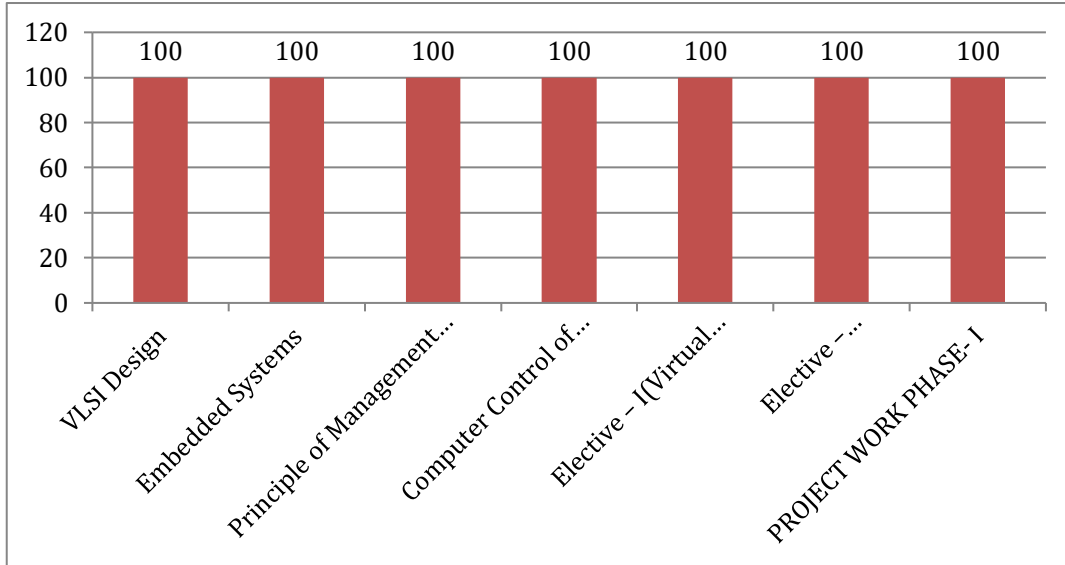
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Student Feedback Class wise Summary IV year (2017-2021)





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

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr.Balaji	3	Mathematics III (Probability and Statistics)	19	86
2	Mr.S S Saravanakumar	3	Electronic Devices and Circuits	19	92
3	Mr. G. Venkatakoteshwara Rao	3	Engineering Mechanics	19	85
4	Dr. S. D. Sathishkumar	3	Manufacturing Technology for Mechatronics	19	83
5	Dr.T.Lakshmibai	3	Sensors & Actuators	19	85
6	Ms.Anitha	3	Object Oriented Programming Using C++	19	79
7	Dr.D.Nageswara Rao	3	Sanskrit and Indian Culture	19	84



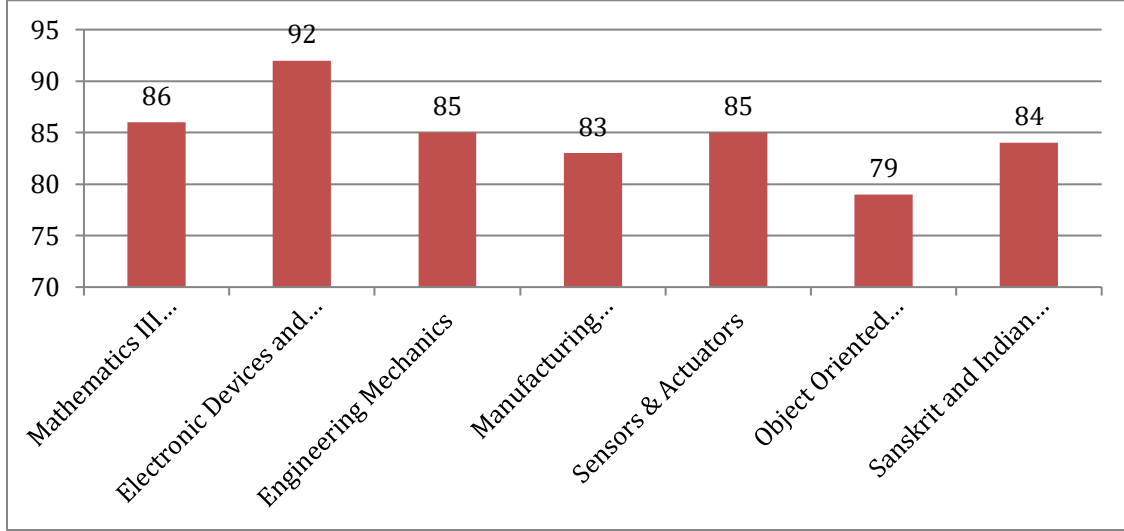
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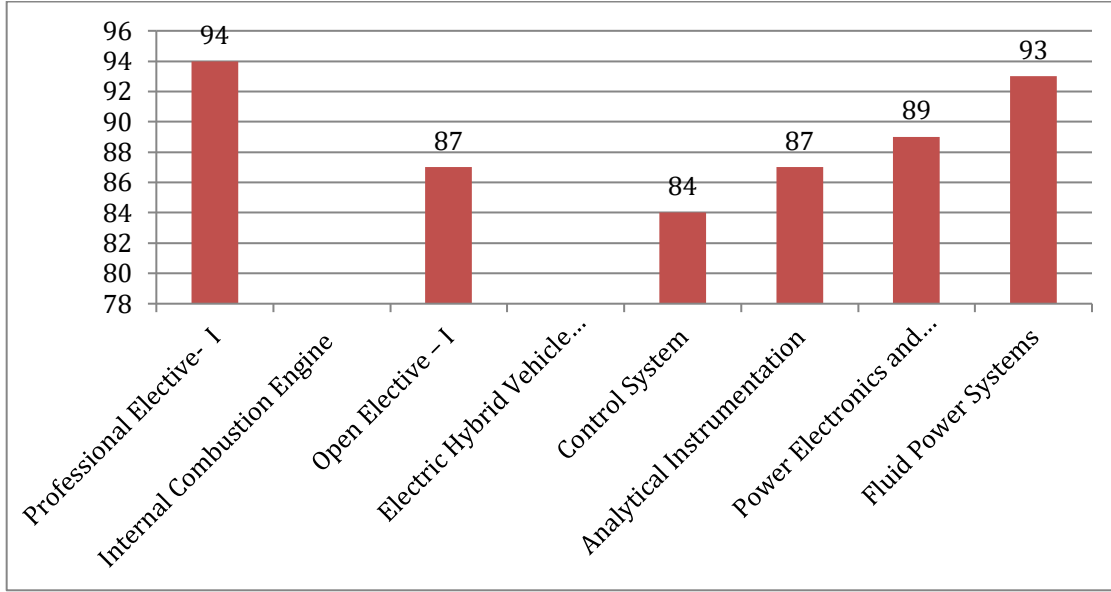
Department of EIE

Student Feedback Class wise Summary - III Year (Mechatronics) (2018-2022)

S.No	Name	Sem	Subject Name	No of Students	%
1	Mr.Chenga reddy	5	Professional Elective- I Internal Combustion Engine	11	94
2	Dr. D.Vanitha	5	Open Elective – I Electric Hybrid Vehicle Technology	11	87
3	Mrs. K.Sugapriya	5	Control System	11	84
4	Mrs. K.Saraswathi	5	Analytical Instrumentation	11	87
5	Dr.T.Lakshmibai	5	Power Electronics and Industrial Drives	11	89
6	Dr. G.Harish	5	Fluid Power Systems	11	93



Student Feedback Class wise Summary - III Year (Mechatronics) (2018-2022)





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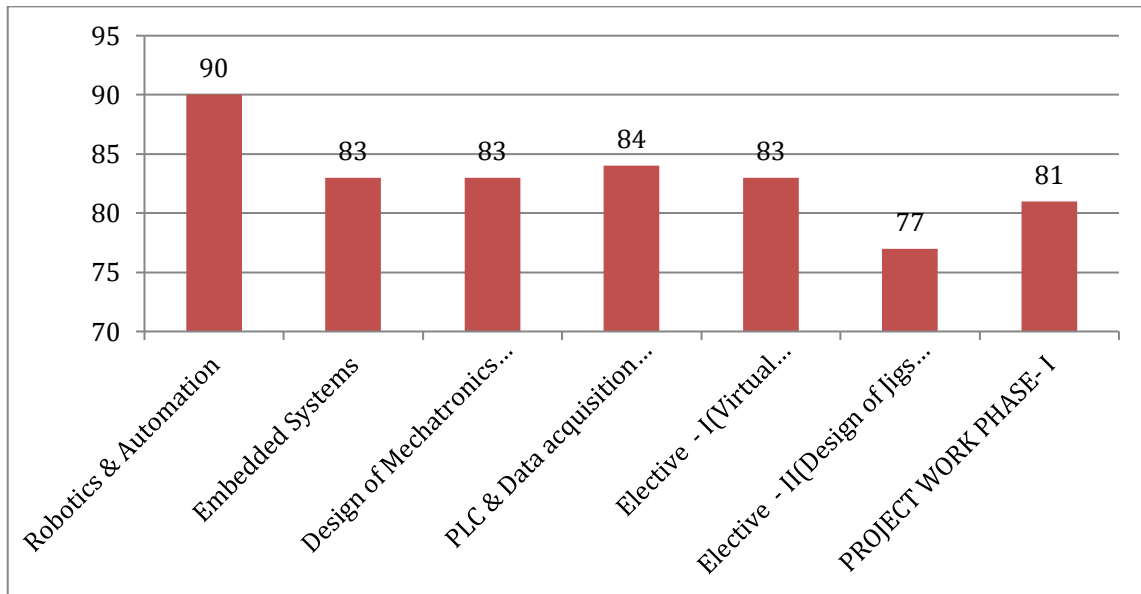


Student Feedback Class wise Summary - IV Year (Mechatronics) (2017-2021)

S.No	Name	Sem	Subject Name	No of Students	%
1	Mrs.K.Saraswathi	7	Robotics & Automation	14	90
2	Dr. G P Sivakumar	7	Embedded Systems	14	83
3	Dr. S. Vijayabhaskar	7	Design of Mechatronics Systems	14	83
4	Mrs.Janani.R	7	PLC & Data acquisition Systems	14	84
5	Mrs.Janani.R	7	Elective - I(Virtual Instrumentation) Virtual Instrumentation	14	83
6	Dr. K. Mohan	7	Elective - II(Design of Jigs and Fixtures) Design of Jigs and Fixtures	14	77
7	Dr. G P Sivakumar	7	PROJECT WORK PHASE- I	14	81



Student Feedback Class wise Summary - IV Year (Mechatronics) (2017-2021)





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Student Feedback Staff wise Summary (Even Sem2021)

S.no	Prefix	Name	Sem	Subject_Name	Excellent	Very Good	Good	Average	Poor	NoOf Stud	Point	Score
1	Ms.	K.SARASWATHI	6	PLC Lab	1	0	0	0	0	1	10	100.00
2	Ms.	K.SARASWATHI	6	PLC & Data Acquisition Systems	1	0	0	0	0	1	10	100.00
3	Ms.	K.SARASWATHI	4	Industrial Instrumentation	8	8	2	0	0	18	156	86.67
4	Ms.	K.SARASWATHI	6	PLC and Virtual Instrumentation Lab	10	1	0	0	0	11	108	98.18
5	Ms.	K.SARASWATHI	6	PLC & Data Acquisition Systems	9	1	1	0	0	11	104	94.55
6	Dr.	SUNDAR.T	8	Elective-IV Automotive Instrumentation	0	1	0	0	0	1	8	80.00
7	Dr.	SUNDAR.T	8	Elective –IV Automotive Instrumentation	3	0	0	0	0	3	30	100.00
8	Ms.	JANANI R	6	Virtual Instrumentation Lab	1	0	0	0	0	1	10	100.00
9	Ms.	JANANI R	6	Professional Elective – II Virtual Instrumentation	9	1	1	0	0	11	104	94.55



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10	Ms.	JANANI R	6	Professional Elective – II Virtual Instrumentation	1	0	0	0	0	1	10	100.00
11	Ms.	JANANI R	8	Project Work Phase II	1	0	0	0	0	1	10	100.00
12	Ms.	JANANI R	8	Project Work Phase II	3	0	0	0	0	3	30	100.00
13	Dr.	T.LAKSHMIBAI	6	Microprocessor and Microcontroller Lab	1	0	0	0	0	1	10	100.00
14	Dr.	T.LAKSHMIBAI	4	Linear Integrated Circuits and Digital Electronics Lab	7	7	4	0	0	18	150	83.33
15	Dr.	T.LAKSHMIBAI	6	Microprocessor and Microcontroller Lab	7	2	2	0	0	11	98	89.09
16	Dr.	T.LAKSHMIBAI	8	Elective-III Aircraft Instrumentation	1	0	0	0	0	1	10	100.00
17	Dr.	T.LAKSHMIBAI	8	Elective-III Aircraft Instrumentation	3	0	0	0	0	3	30	100.00
18	Dr.	T.LAKSHMIBAI	8	Elective-III Aircraft Instrumentation	12	2	0	0	0	14	136	97.14
19	Dr.	G P SIVAKUMAR	6	Principles of Management and Professional Ethics	1	0	0	0	0	1	10	100.00
20	Dr.	G P SIVAKUMAR	6	Principles of Management and Professional Ethics	9	1	1	0	0	11	104	94.55



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21	Dr.	G P SIVAKUMAR	8	Principles of management and professional ethics	10	3	1	0	0	14	130	92.86
22	Dr.	G P SIVAKUMAR	8	Project Work (Phase - II)	9	4	1	0	0	14	128	91.43
23	Mr.	SARAVANA KUMAR.S.S	4	Digital Electronics	11	5	2	0	0	18	162	90.00
24	Mr.	SARAVANA KUMAR.S.S	8	Bio medical instrumentation	3	0	0	0	0	3	30	100.00
25	Mr.	SARAVANA KUMAR.S.S	8	Bio medical instrumentation	1	0	0	0	0	1	10	100.00
26	Mrs.	K.SUGAPRIYA	6	Microprocessors and Microcontrollers	1	0	0	0	0	1	10	100.00
27	Mrs.	K.SUGAPRIYA	6	Industrial Chemical Process	1	0	0	0	0	1	10	100.00
28	Mrs.	K.SUGAPRIYA	6	Microprocessors and Microcontrollers	8	1	2	0	0	11	100	90.91
29	Mrs.	K.SUGAPRIYA	8	Robotics and automation	0	1	0	0	0	1	8	80.00
30	Mrs.	K.SUGAPRIYA	8	Robotics and automation	3	0	0	0	0	3	30	100.00
31	Mr.	BOOVARAHAN	4	Linear Integrated Circuits	7	8	3	0	0	18	152	84.44



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Student Feedback Class wise Summary III year (EIE) (2018-2022)

<u>S.No</u>	<u>Name</u>	<u>Sem</u>	<u>Subject Name</u>	No of Students	%
1	Mrs.Janani.R	6	Professional Elective – II Virtual Instrumentation	1	100
2	Mr.S.Swaraj	6	Open Elective –II Human Resource Management	1	100
3	Mrs.K.Saraswathi	6	PLC & Data Acquisition Systems	1	100
4	Dr. G P Sivakumar	6	Principles of Management and Professional Ethics	1	100
5	Mrs.K.Sugapriya	6	Microprocessors and Microcontrollers	1	100
6	Dr.T.Sundar	6	Industrial Chemical Process	1	100
7	Mrs.K.Sugapriya	6	Microprocessor and Microcontroller Lab	1	100
8	Mrs.Janani.R	6	Virtual Instrumentation Lab	1	100
9	Mrs. K.Saraswathi	6	PLC Lab	1	100



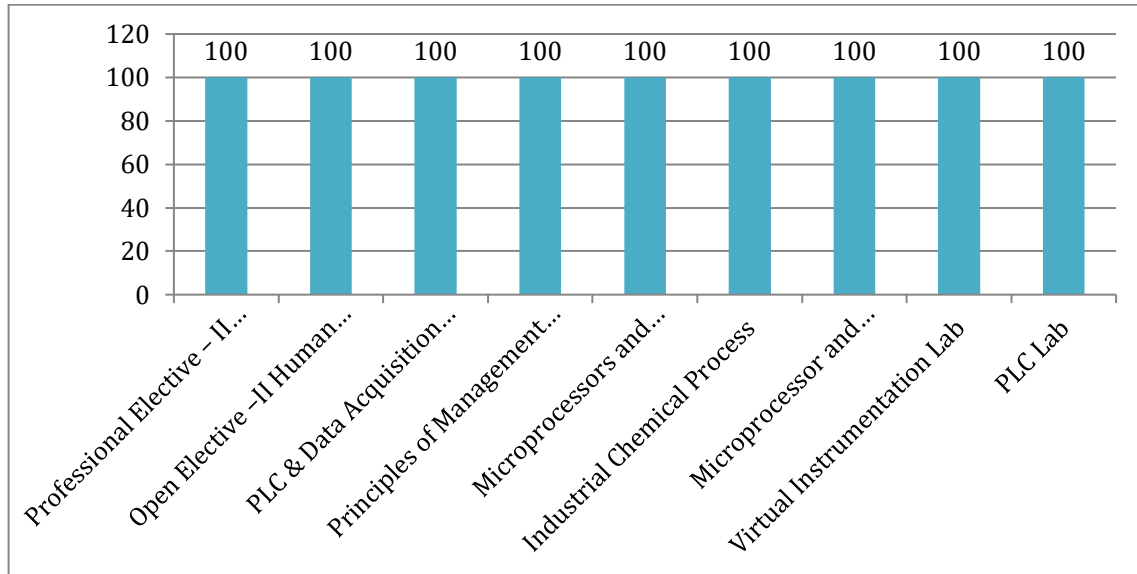
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Student Feedback Class wise Summary III year (EIE) (2018-2022)





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Student Feedback Class wise Summary IV year (EIE) (2017-2021)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr.T. Lakshmibai	8	Elective-III Aircraft Instrumentation	4	100
2	Dr.T. Sundar	8	Elective –IV Automotive Instrumentation	4	100
3	Mr.S.S. Saravana Kumar	8	Bio medical instrumentation	4	100
5	Mrs. K. Sugapriya	8	Robotics and automation	4	100
6	Ms. Janani.R	8	Project Work Phase II	4	100



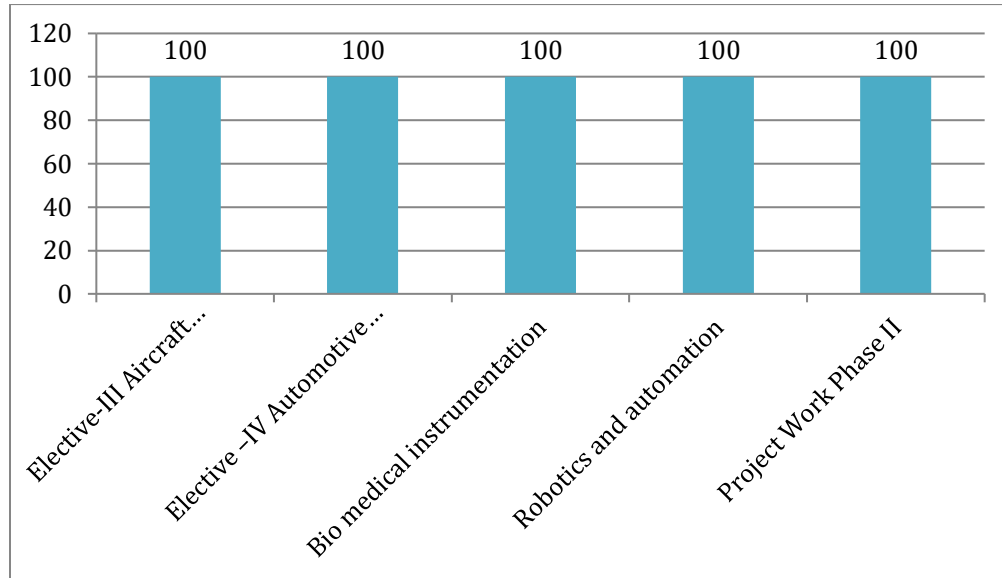
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Student Feedback Class wise Summary IV year (2017-2021)





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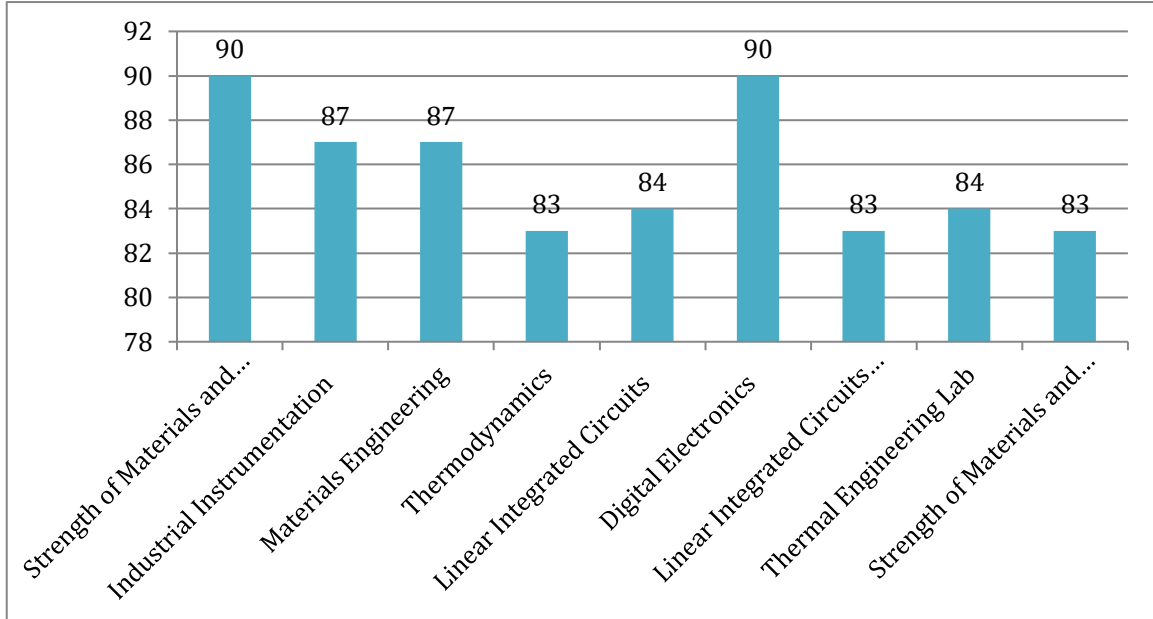


Student Feedback Class wise Summary - II Year (Mechatronics) (2019-2023)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr.A.Thamilarasan	4	Strength of Materials and Fluid Mechanics	18	90
2	Mrs.K.Saraswathi	4	Industrial Instrumentation	18	87
3	Mr.R. Ellappan	4	Materials Engineering	18	87
4	Mr.Chenga reddy	4	Thermodynamics	18	83
5	Mr.N C A Boovarahan	4	Linear Integrated Circuits	18	84
6	Mr.S.S.Saravanakumar	4	Digital Electronics	18	90
7	Mr.S.S.Saravanakumar	4	Linear Integrated Circuits and Digital Electronics Lab	18	83
8	Mr.Chenga reddy	4	Thermal Engineering Lab	18	84
9	Mr.R. Ellappan	4	Strength of Materials and Fluid Mechanics Lab	18	83



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





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Student Feedback Class wise Summary - III Year (Mechatronics) (2018-2022)

<u>S.No</u>	<u>Name</u>	<u>Sem</u>	<u>Subject Name</u>	No of Students	%
1	Mrs.Janani.R	6	Professional Elective – II Virtual Instrumentation	11	95
2	Mr.S.Swaraj	6	Open Elective –II Human Resource Management	11	91
3	Mrs.K.Saraswathi	6	PLC & Data Acquisition Systems	11	95
4	Dr. G P Sivakumar	6	Principles of Management and Professional Ethics	11	95
5	Mrs.K.Sugapriya	6	Microprocessors and Microcontrollers	11	91
6	Dr. S. Vijayabhaskar	6	CAD / CAM	11	91
7	Dr.T. Lakshmibai	6	Microprocessor and Microcontroller Lab	11	81
8	Dr. S. Vijayabhaskar	6	CAD/CAM Lab	11	91
9	Mrs. K.Saraswathi	6	PLC and Virtual Instrumentation Lab	11	98



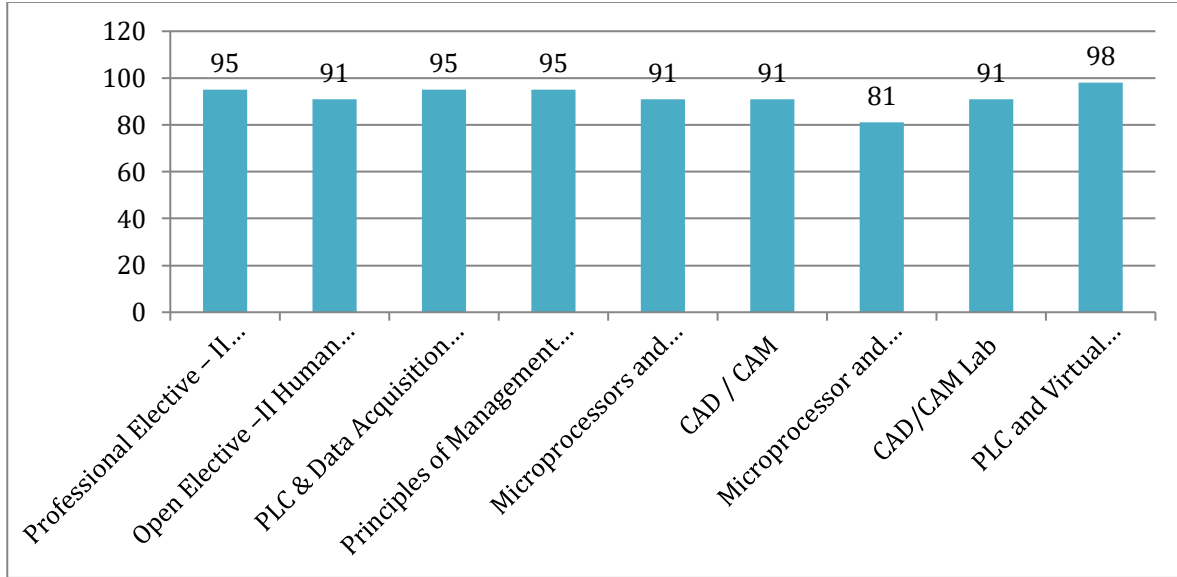
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Student Feedback Class wise Summary - III Year (Mechatronics) (2018-2022)





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Student Feedback Class wise Summary - IV Year (Mechatronics) (2017-2021)

S.No	Name	Sem	Subject Name	No of Students	%
1	Dr.T.Lakshmibai	8	Elective-III Aircraft Instrumentation	14	97
2	Mr.G. Harish	8	Machine Vision	14	91
3	Mr. S. D.Sathishkumar	8	Elective-IV Process Planning and Cost Estimation	14	93
4	Dr. G. Padmanabha Sivakumar	8	Principles of Management and Professional ethics	14	93
5	Dr. G. Padmanabha Sivakumar	8	Project Work (phase - II)	14	91



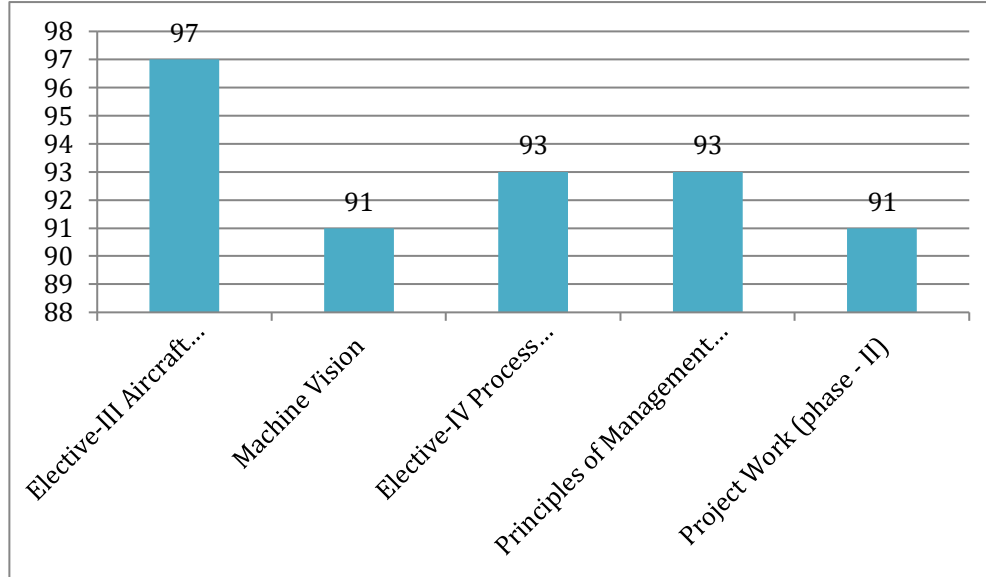
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Student Feedback Class wise Summary - IV Year (Mechatronics) (2017-2021)

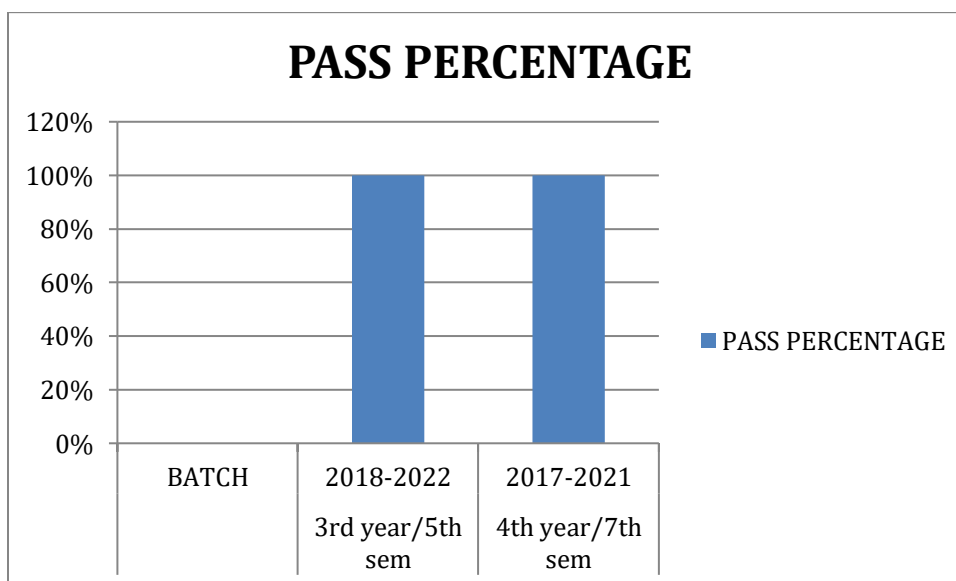




21. RESULT ANALYSIS (2020-2021)
OVER ALL PASS PERCENTAGE FOR ODD SEMESTERS (2020-2021)

ELECTRONICS AND INSTRUMENTATION ENGINEERING

YEAR/SEM	BATCH	PASS PERCENTAGE
3 rd year/5 th sem	2018-2022	100%
4 th year/7 th sem	2017-2021	100%

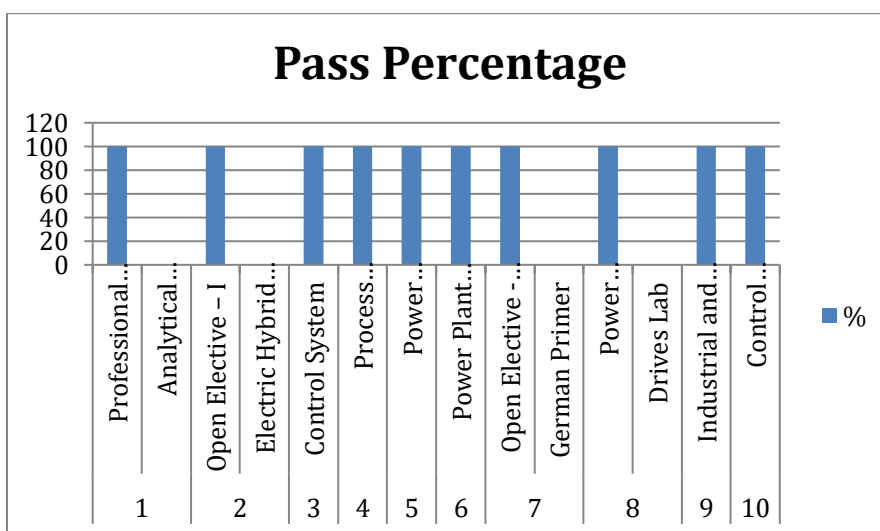


OVER ALL PASS PERCENTAGE FOR ODD SEMESTERS (2020-2021)



3rd year/5th sem

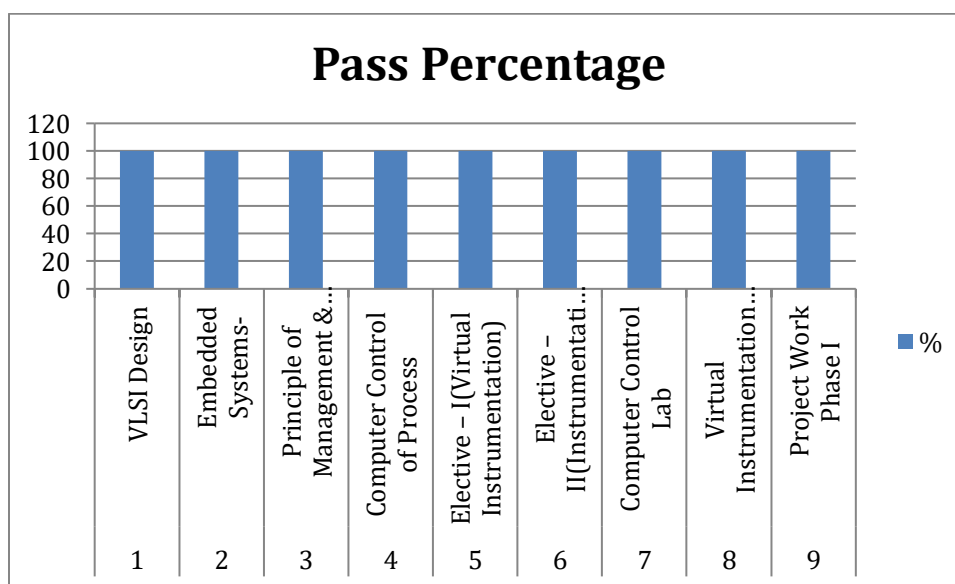
SL.NO.	SUBJECT	%
1	Professional Elective- I Analytical Instrumentation	100
2.	Open Elective - I Electric Hybrid Vehicle Technology	100
3.	Control System	100
4.	Process Control Instrumentation	100
5.	Power Electronics and Industrial Drives	100
6.	Power Plant Instrumentation	100
7.	Open Elective - French Primer / Japanese Primer / German Primer	100
8.	Power Electronics and Industrial Drives Lab	100
9.	Industrial and Process Control Lab	100
10.	Control Systems Lab	100





4th year/7th sem

SL.NO.	SUBJECT	%
1	VLSI Design	100
2.	Embedded Systems-	100
3.	Principle of Management & Professional Ethics	100
4.	Computer Control of Process	100
5.	Elective - I(Virtual Instrumentation)	100
6.	Elective - II(Instrumentation and Control in Petrochemical Industries)	100
7.	Computer Control Lab	100
8.	Virtual Instrumentation Lab	100
9.	Project Work Phase I	100



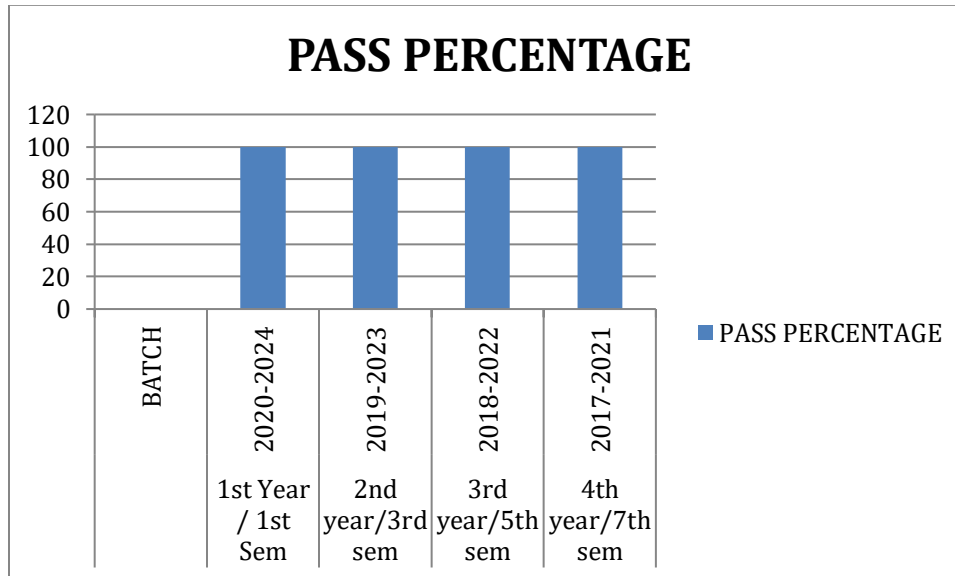


RESULT ANALYSIS (2020-2021)

OVER ALL PASS PERCENTAGE FOR ODD SEMESTERS (2020-2021)

MECHATRONICS

YEAR/SEM	BATCH	PASS PERCENTAGE
1 st Year / 1st Sem	2020-2024	100
2 nd year/3 rd sem	2019-2023	100
3 rd year/5 th sem	2018-2022	100
4 th year/7 th sem	2017-2021	100



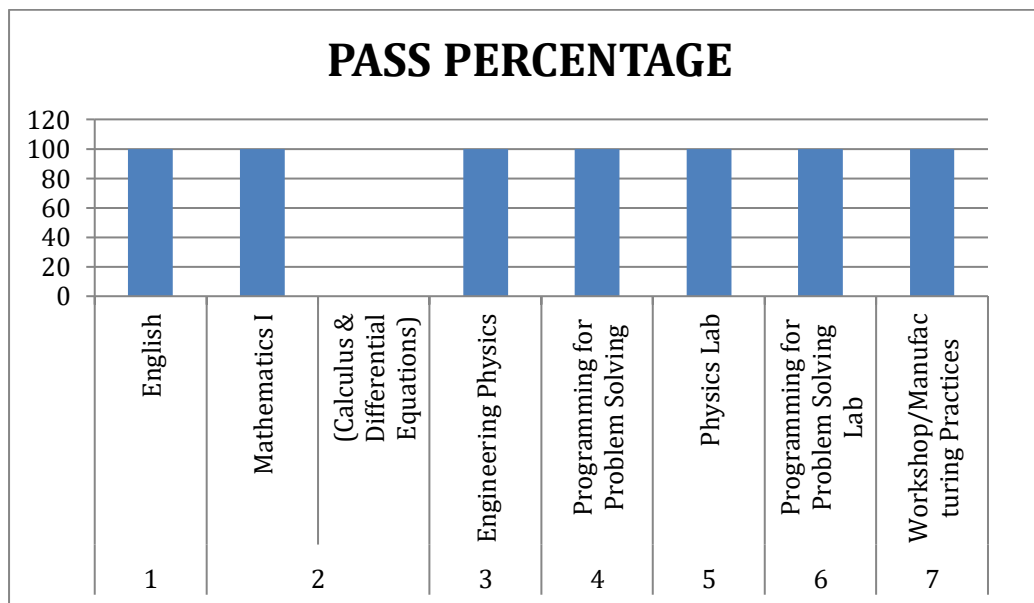


OVER ALL PASS PERCENTAGE FOR ODD SEMESTERS (2020-2021)

MECHATRONICS

1st Year / 1st Sem

SL.No	Subject	%
1	English	100
2	Mathematics I (Calculus & Differential Equations)	100
3	Engineering Physics	100
4	Programming for Problem Solving	100
5	Physics Lab	100
6	Programming for Problem Solving Lab	100
7	Workshop/Manufacturing Practices	100





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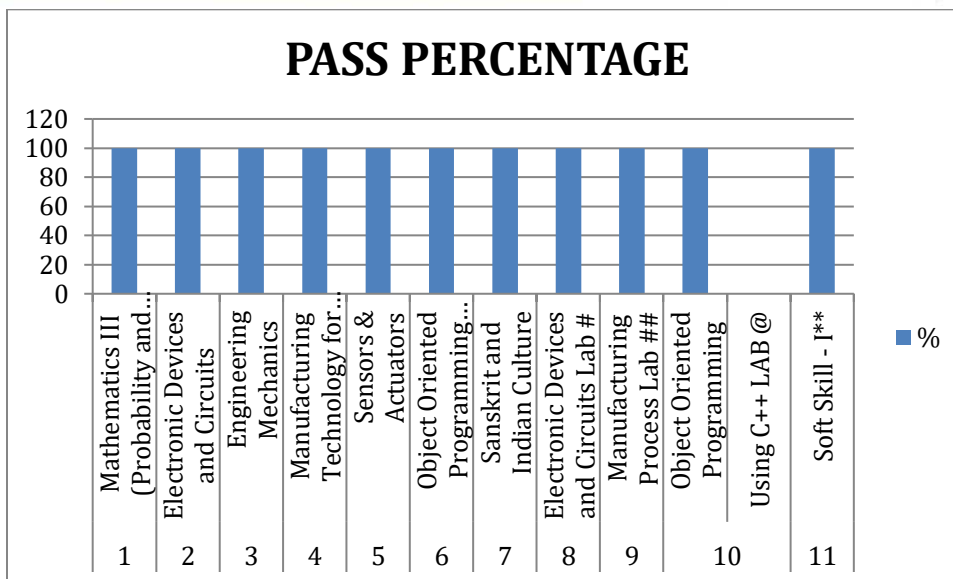
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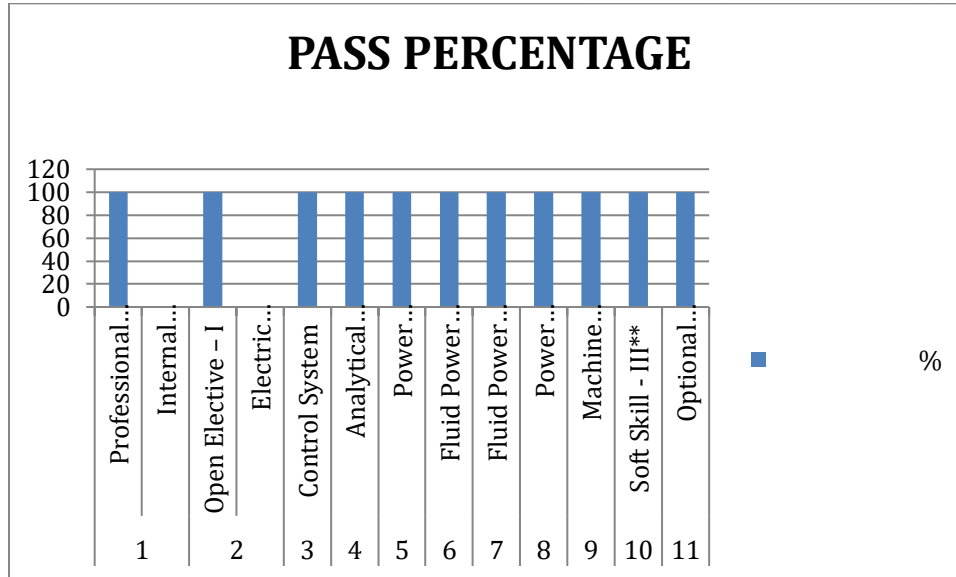
2nd year/3rd sem

SL.No	Subject	%
1	Mathematics III (Probability and Statistics)	100
2	Electronic Devices and Circuits	100
3	Engineering Mechanics	100
4	Manufacturing Technology for Mechatronics	100
5	Sensors & Actuators	100
6	Object Oriented Programming Using C++	100
7	Sanskrit and Indian Culture	100
8	Electronic Devices and Circuits Lab [#]	100
9	Manufacturing Process Lab ^{##}	100
10	Object Oriented Programming Using C++ LAB [@]	100
11	Soft Skill - I ^{**}	100



3rd year/5th sem

SL.No	Subject	%
1	Professional Elective- I Internal Combustion Engine	100
2	Open Elective - I Electric Hybrid Vehicle Technology	100
3	Control System	100
4	Analytical Instrumentation	100
5	Power Electronics and Industrial Drives	100
6	Fluid Power Systems	100
7	Fluid Power Control Lab ##	100
8	Power Electronics and Industrial Drives Lab #	100
9	Machine Drawing Lab ##	100
10	Soft Skill - III**	100
11	Optional OEC** - French Primer / Japanese Primer / German Primer	100

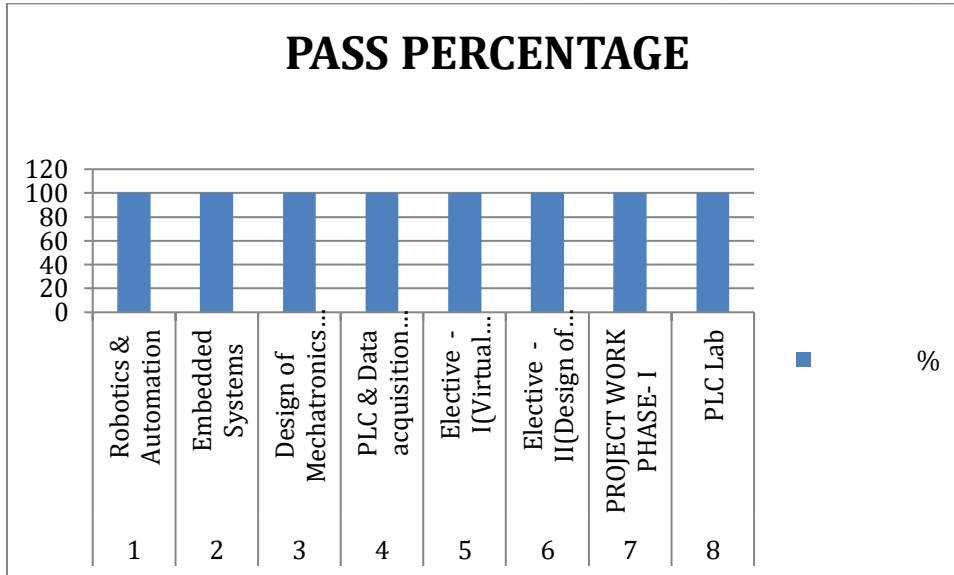


4th year/7th sem

SL.NO.	SUBJECT	%
1	Robotics & Automation	100
2.	Embedded Systems	100
3.	Design of Mechatronics Systems	100
4.	PLC & Data acquisition Systems	100
5.	Elective - I(Virtual Instrumentation)	100
6.	Elective - II(Design of Jigs and Fixtures)	100
7.	PROJECT WORK PHASE- I	100
8.	PLC Lab	100



PASS PERCENTAGE



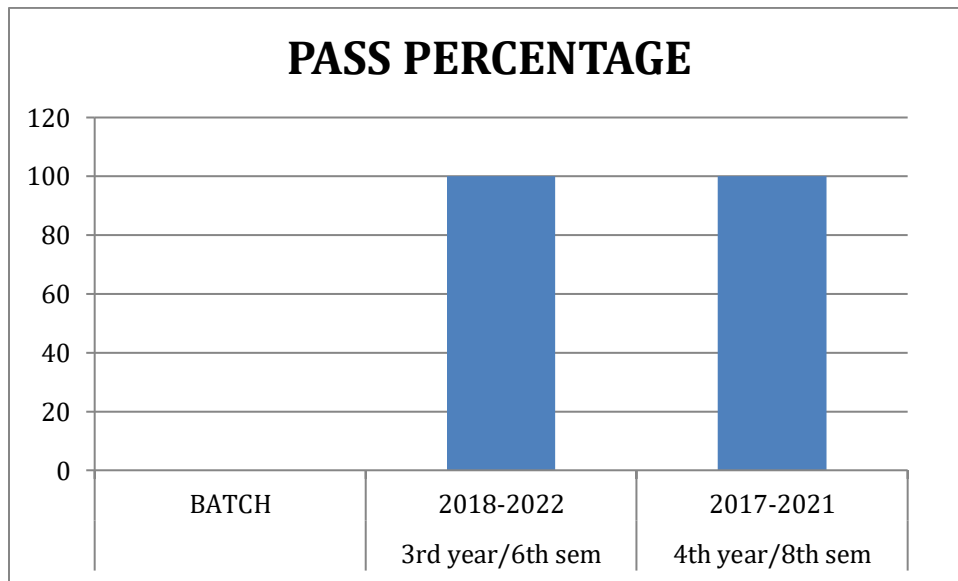


RESULT ANALYSIS (2020-2021)

OVER ALL PASS PERCENTAGE FOR EVEN SEMESTERS (2020-2021)

ELECTRONICS AND INSTRUMENTATION ENGINEERING

YEAR/SEM	BATCH	PASS PERCENTAGE
3 rd year/6 th sem	2018-2022	100
4 th year/8 th sem	2017-2021	100



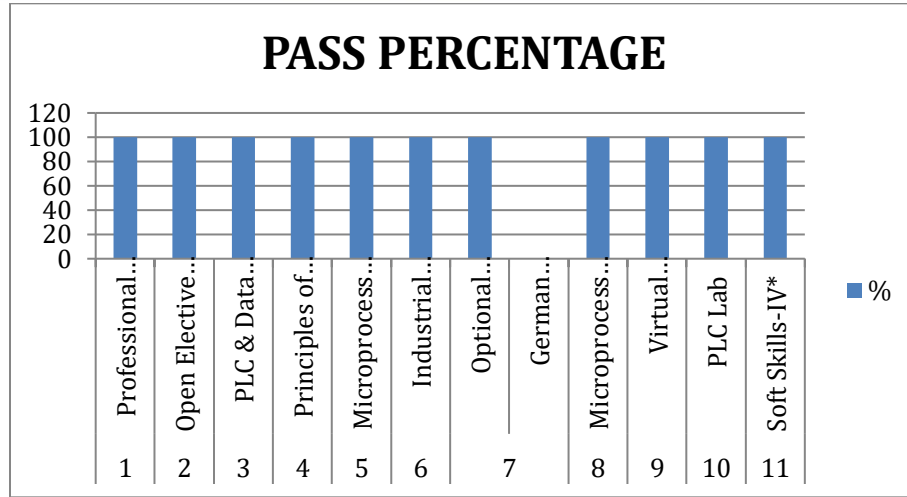


OVER ALL PASS PERCENTAGE FOR EVEN SEMESTERS (2020-2021)

ELECTRONICS AND INSTRUMENTATION ENGINEERING

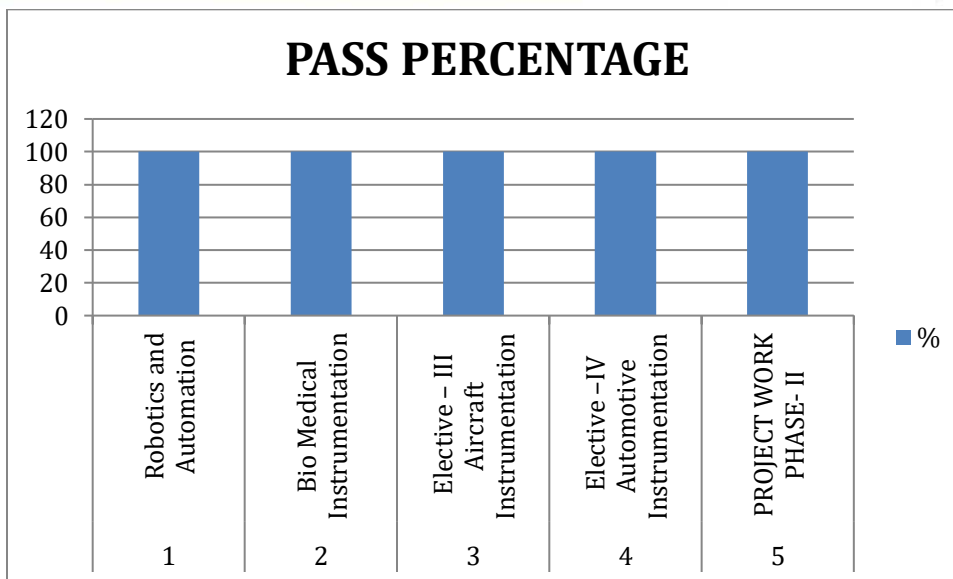
3rd year/6th sem

SL.NO.	SUBJECT	%
1	Professional Elective - II Virtual Instrumentation	100
2.	Open Elective -II Human Resource Management	100
3.	PLC & Data Acquisition Systems	100
4.	Principles of Management and Professional Ethics	100
5.	Microprocessors and Microcontrollers	100
6.	Industrial Chemical Process	100
7.	Optional OEC*- French Primer / Japanese Primer / German Primer*	100
8.	Microprocessors and Microcontrollers Lab	100
9.	Virtual Instrumentation Lab	100
10.	PLC Lab	100
11.	Soft Skills-IV*	100



4th year/8th sem

SL.NO.	SUBJECT	%
1	Robotics and Automation	100
2.	Bio Medical Instrumentation	100
3.	Elective - III Aircraft Instrumentation	100
4.	Elective -IV Automotive Instrumentation	100
5.	PROJECT WORK PHASE- II	100

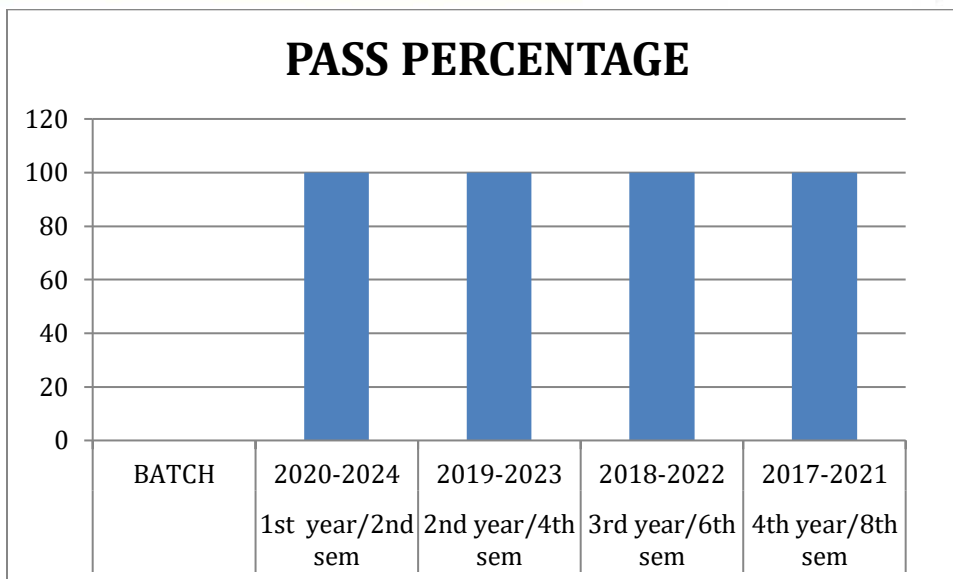


RESULT ANALYSIS (2020-2021)

OVER ALL PASS PERCENTAGE FOR EVEN SEMESTERS (2020-2021)

MECHATRONICS

YEAR/SEM	BATCH	PASS PERCENTAGE
1 st year/2 nd sem	2020-2024	100
2 nd year/4 th sem	2019-2023	100
3 rd year/6 th sem	2018-2022	100
4 th year/8 th sem	2017-2021	100

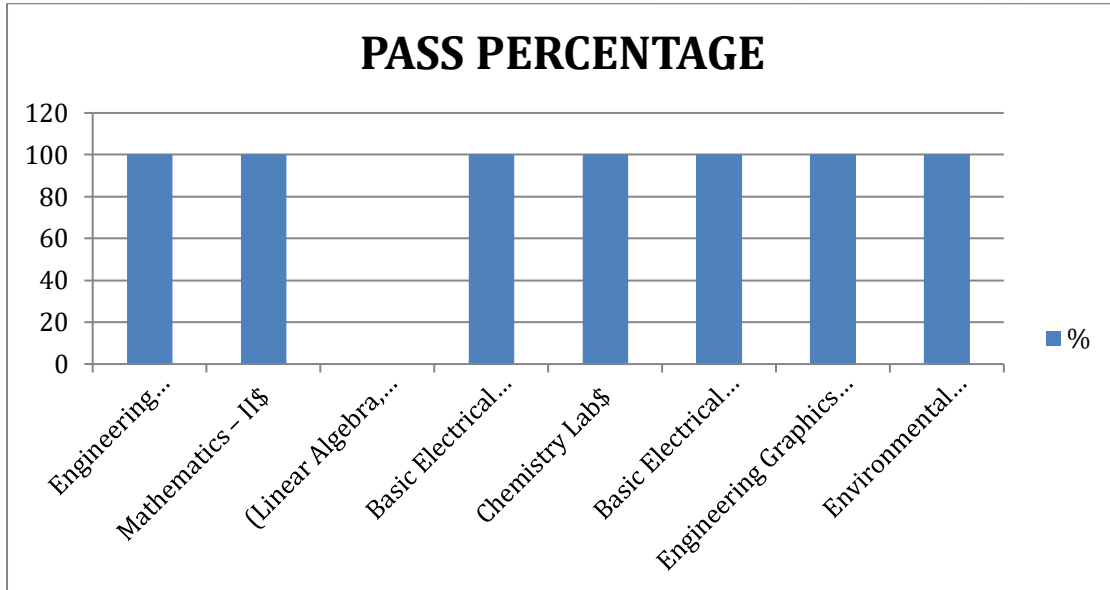


OVER ALL PASS PERCENTAGE FOR EVEN SEMESTERS (2020-2021)

MECHATRONICS

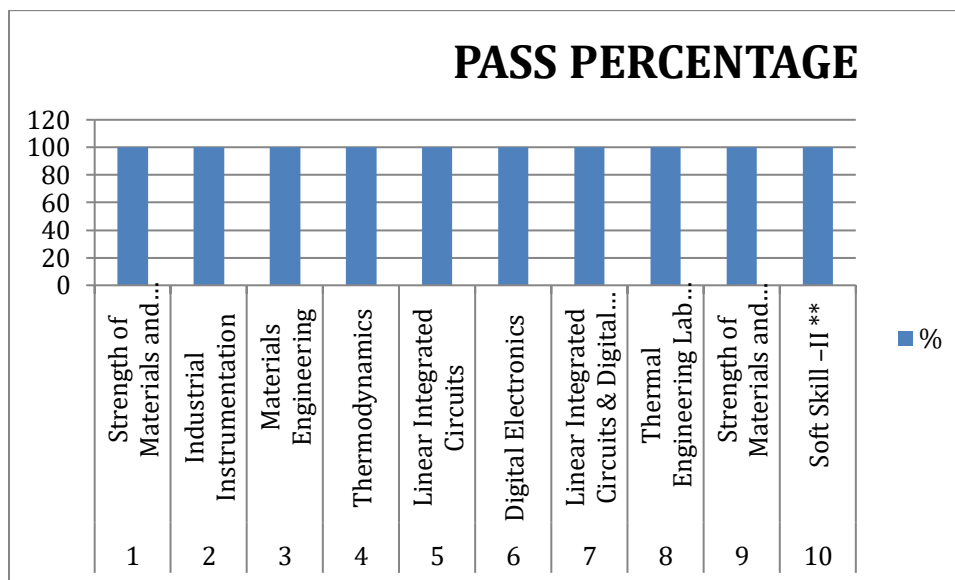
1st year/2nd sem

SL.No	Subject	%
1	Engineering Chemistry [§] (Chemistry - I)	100
2	Mathematics – II [§] (Linear Algebra, Transform Calculus and Numerical methods)	100
3	Basic Electrical Engineering #	100
4	Chemistry Lab [§]	100
5	Basic Electrical Engineering Lab #	100
6	Engineering Graphics & Design [§]	100
7	Environmental Sciences and Engineering*	100



2nd year/4th sem

SL.No	Subject	%
1	Strength of Materials and Fluid Mechanics	100
2	Industrial Instrumentation	100
3	Materials Engineering	100
4	Thermodynamics	100
5	Linear Integrated Circuits	100
6	Digital Electronics	100
7	Linear Integrated Circuits & Digital Electronics Lab	100
8	Thermal Engineering Lab ##	100
9	Strength of Materials and Fluid Mechanics Lab ##	100
10	Soft Skill -II **	100

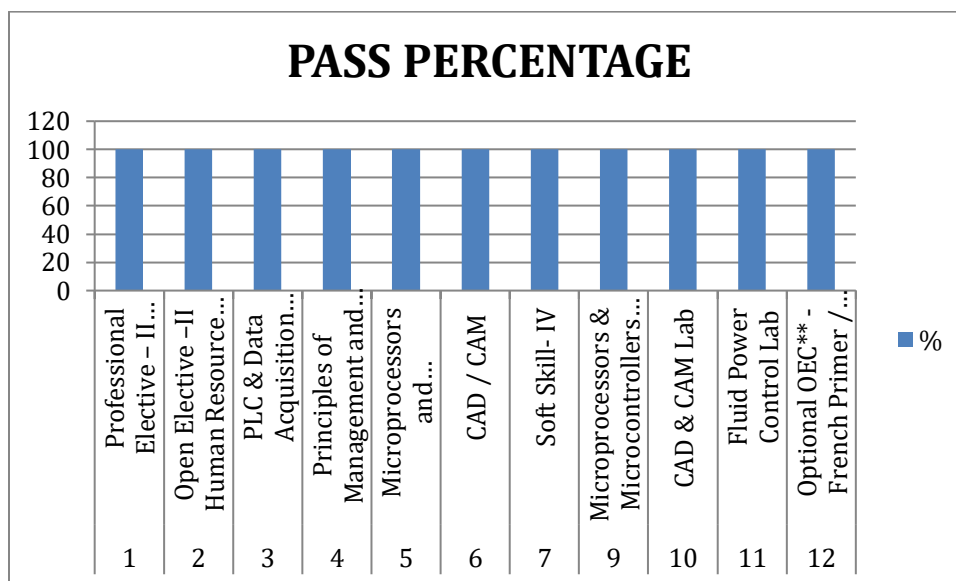


3rd year/6th sem

SL.NO.	SUBJECT	%
1	Professional Elective – II Virtual Instrumentation	100
2.	Open Elective –II Human Resource Management	100
3.	PLC & Data Acquisition Systems	100
4.	Principles of Management and Professional Ethics	100
5.	Microprocessors and Microcontrollers	100
6.	CAD / CAM	100
7.	Soft Skill- IV	100
9.	Microprocessors & Microcontrollers Lab	100

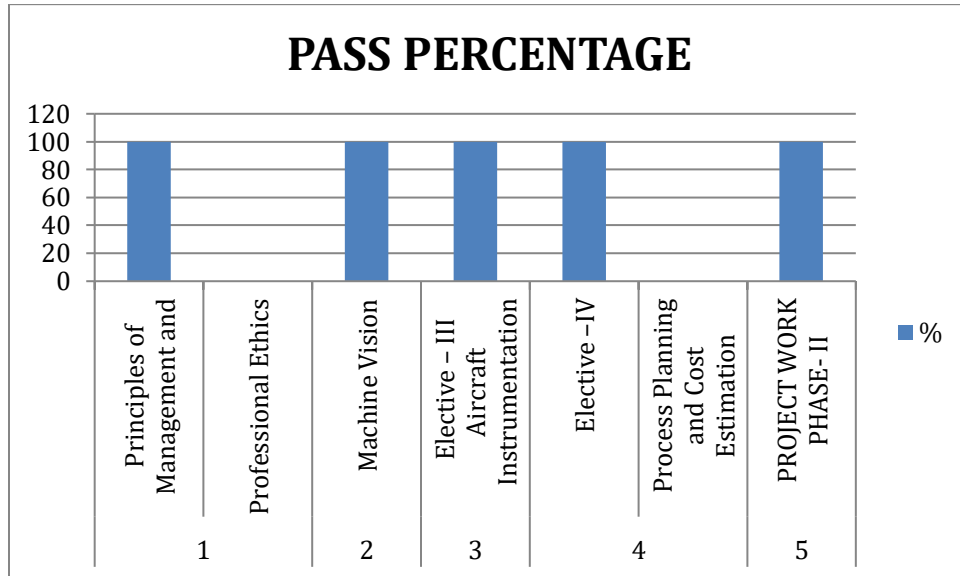


10.	CAD & CAM Lab	100
11.	Fluid Power Control Lab	100
12.	Optional OEC** -French Primer / Japanese Primer /German Primer	100



4th year/8th sem

SL.NO.	SUBJECT	%
1	Principles of Management and Professional Ethics	100
2	Machine Vision	100
3	Elective - III Aircraft Instrumentation	100
4	Elective -IV Process Planning and Cost Estimation	100
5.	PROJECT WORK PHASE- II	100





श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

SRI CHANDRASEKHARENDR SARASWATHI VISWA MAHAVIDYALAYA
(SCSVMV)

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Enathur, Kanchipuram - 631 561.



22. PLACEMENT ACTIVITY DETAILS

EIE & MECHATRONICS PLACEMENT DETAILS (2017-2021 Batch)

S.No	Name	Reg no	Branch	Organization	Designation
1	E Manjunath	11179H003	Mechatronics	TCS	Programmer Analyst Trainee
2	Rohit Iyengar K G	11179H010		Valcomelton	
3	A. Vikram	11179H016		Worksbot Applications Pvt Ltd	



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LIST OF COMPANIES VISITED FOR PLACEMENT



Cognizant



KIRAN UDYOD PVT. LIMITED



Chemtron Science Laboratories Pvt. Ltd.



SUTHERLAND



VALCO MELTON



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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23. WORK COMPLETION REPORT

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

YEAR 2020-21

I, K.SARASWATHI, 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: _____



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA

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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

- 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: _____



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

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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, **G.P.SIVAKUMAR**, 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, 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: _____



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(SCSVMV)

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

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

Signature of Staff: _____

Date: _____



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
(विश्वविद्यालयानुदानयोगस्य १९५६ विधेः तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

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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 2021-2022)

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

Teaching, Learning and Evaluation related activities
<ul style="list-style-type: none">Teaching of the courses assigned ODD SEMESTER<ol style="list-style-type: none">Computer Control of Process-IV Yr EIEAnalytical Instrumentation- III Yr MechatronicsElectronic Devices and Circuits LabEVEN SEMESTER<p>Will be assigned by HOD</p>Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals. <p>Completed Work for the year 2020-2021</p> <ul style="list-style-type: none">All the odd & even semester subject syllabus, internal evaluation and assessments are completedPrepared Electronic Devices and Circuits Lab manual for II Year Mechatronics students.
Co-curricular, Extension, Professional development related activities
<ul style="list-style-type: none">Planned to arrange an Industrial Visit to Process Industry.Planned to attend Refresher courses and Conferences. <p>Completed Work for the year 2020-2021</p> <ul style="list-style-type: none">Actively participated in Online FDP Programs.
Research, Publications and Academic contributions
<ul style="list-style-type: none">Planned to Present papers in IEEE Conferences. <p>Completed Work for the year 2020-2021</p> <ul style="list-style-type: none">Published papers in UGC journals.

Signature of the Faculty

HOD/EIE



For the Academic Year 2021-2022 - Work Plan

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

Teaching, Learning and Evaluation related activities
<ul style="list-style-type: none">Teaching of the courses assigned <p>ODD SEMESTER</p> <ol style="list-style-type: none">Electrical and Mechanical Measurements -III Yr MechatronicsRobotics Automation and Process Control Lab – IV Yr MechatronicsProcess Control Lab – IY Yr EEE (PT) <p>EVEN SEMESTER</p> <p>Will be assigned by HOD</p> <ul style="list-style-type: none">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 Microprocessor and Microcontroller Lab. <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Prepared Digital Electronics Lab manual and Microprocessor and Microcontroller Lab for CSE students.All the odd & even semester subject syllabus, internal evaluation and assessments are completed.
Co-curricular, Extension, Professional development related activities
<ul style="list-style-type: none">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 and Guest Lecture.To attend Refresher courses and Conferences <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Actively participated in Webinar, Workshop, Seminar, Lecture Series, FDP and Conference.
Research, Publications and Academic contributions
<ul style="list-style-type: none">Planned to Present papers in IEEE Conferences. <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Presented a paper in the Esteemed Journal.Successfully completed in ATAL FDP

Signature of the Faculty

HOD/EIE



For the Academic Year 2021-2022 - Work Plan

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

Teaching, Learning and Evaluation related activities								
<p>Subjects assigned</p> <p>ODD SEMESTER</p> <table><tr><td>1. Virtual Instrumentation</td><td>Third Year EIE</td></tr><tr><td>2. Microprocessors and Microcontroller</td><td>Second Year CSE</td></tr><tr><td>3. Virtual Instrumentation Lab</td><td>Final Year EIE</td></tr><tr><td>4. PLC and Data Acquisition Systems</td><td>Third Year ECE</td></tr></table> <p>EVEN SEMESTER</p> <p>Will be assigned by HOD</p> <p>To prepare fresh study materials, question bank for PLC and Data Acquisition Systems</p> <p>Completed Work for the previous year 2020-2021</p> <p>All the odd and even semester subject syllabus, internal evaluation and assessments are completed</p>	1. Virtual Instrumentation	Third Year EIE	2. Microprocessors and Microcontroller	Second Year CSE	3. Virtual Instrumentation Lab	Final Year EIE	4. PLC and Data Acquisition Systems	Third Year ECE
1. Virtual Instrumentation	Third Year EIE							
2. Microprocessors and Microcontroller	Second Year CSE							
3. Virtual Instrumentation Lab	Final Year EIE							
4. PLC and Data Acquisition Systems	Third Year ECE							
Co-curricular, Extension, Professional development related activities								
<ul style="list-style-type: none">To organize two days FDP in Virtual Instrumentation, PLC and SCADA Based AutomationInstruct students to join and undergo NPTEL Certificate exam as well as SWAYAM coursesRegistered for Domain Certification in NPTEL <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Participated in IEEE Conference for Paper Presentation.								
Research, Publications and Academic contributions								
<ul style="list-style-type: none">Publish papers in SCI Indexed Journals.Articles in International Conference. <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Arranged Students to Participate in CONCEPT 2019 and Papers presented and selected for publications in API Conference Proceedings.								

Signature of the Faculty

HOD/EIE



For the Academic Year 2021-2022 - Work Plan

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

Teaching, Learning and Evaluation related activities
<ul style="list-style-type: none">Teaching of the courses assigned <p>ODD SEMESTER</p> <ol style="list-style-type: none">1.Aircraft Instrumentation -IV Yr Mechatronics2. Power Electronics and Drives -V Yr EIE & Mechatronics3. Power Electronics and Drives Lab – V Yr EIE & Mechatronics <p>EVEN SEMESTER</p> <p>Will be assigned by HOD</p> <ul style="list-style-type: none">Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals.Preparation of new syllabus and Lab manual for Power Electronics and drives Lab. <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">All the odd & even semester subject syllabus, internal evaluation and assessments are completed
Co-curricular, Extension, Professional development related activities
<ul style="list-style-type: none">To arrange online Workshops, FDP and Short term Program relevant to instrumentation.To attend Refresher courses and Conferences.To arrange online Guest Lecture <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Actively participated in Conference.Arranged Online webinars and guest lectureConducted Engineers' day function and released a magazine names "Injeneers Navapravasthana"
Research, Publications and Academic contributions
<ul style="list-style-type: none">Planned to present papers in Conferences.To publish papers in Scopus Journals. <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Presented papers in the International conferences.

Signature of the Faculty

HOD/EIE

For the Academic Year 2021-2022 - Work Plan



Teaching, Learning and Evaluation related activities

- Teaching of the courses assigned

ODD SEMESTER

- Principles of Communication – III Yr IT
- Robotics and Automation – IV Yr EIE & Mechatronics
- Project coordinator-Phase-1 -IV yr Mechatronics

EVEN SEMESTER

Will be assigned by HOD

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

- .

Completed Work for the previous year 2020-2021

- Prepared lecture notes of Principles of communication subject for the benefit of other department students.
- 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 Refresher courses and Conferences

Completed Work for the previous year 2020-2021

- 6-Week orientation program on Alumni relationships conducted by vaave solutions.
- Attended 6-Day AICTE-ISTE Funded Refresher program on “Future Wireless Communication Standards” KS Institute of Technology, Bengaluru.
- Actively participated in FDP’s conducted through online.

Research, Publications and Academic contributions

- Planned to publish papers in Scopus.

Completed Work for the previous year 2020-2021

- Published a paper in Springer conference.

Name of the Faculty: Mr.G Padmanabha Sivakumar, Assistant Professor/EIE

Signature of the Faculty

HOD/EIE



For the Academic Year 2021-2022 - Work Plan

Name of the Faculty: Mr.S. S. Saravana Kumar, Assistant Professor/EIE

Teaching, Learning and Evaluation related activities
<ul style="list-style-type: none">Teaching of the courses assigned <p>ODD SEMESTER</p> <ol style="list-style-type: none">Control Systems – III Yr MechtronicsDigital Electronics & Microprocessor – II Yr MSc PhysicsDigital Electronics Lab – II Yr CSE <p>EVEN SEMESTER</p> <p>Will be assigned by HOD</p> <ul style="list-style-type: none">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. <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Prepared Digital Electronics Lab manual for CSE students.All the odd & even semester subject syllabus, internal evaluation and assessments are completed.
Co-curricular, Extension, Professional development related activities
<ul style="list-style-type: none">To arrange a Workshop and Guest Lecture.To attend Refresher courses and Conferences <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Attended Online FDPs in coordination with NITTTR Chandigarh.Actively participated in FDP's conducted through online.
Research, Publications and Academic contributions
<ul style="list-style-type: none">Planned to Present papers in IEEE Conferences.Planned to publish papers in Scopus. <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Published a paper in Scopus.

Signature of the Faculty

HOD/EIE



For the Academic Year 2021-2022 - Work Plan

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

Teaching, Learning and Evaluation related activities
<ul style="list-style-type: none">Teaching of the courses assigned<ol style="list-style-type: none">Sensors and Actuators- IV Year ECEElectronics devices and circuits-II Year MechatronicsProject phase-I-IV year EIE &Mechatronics EngineeringInternship and Industrial visit-IV year EIE &Mechatronics EngineeringThe Assessment (Internal test)for the above said subjects will be conducted at regular intervals. <p>Completed Work for the year 2020-2021</p> <ul style="list-style-type: none">All the odd & even semester subject syllabus, internal evaluation and assessments are completed
Co-curricular, Extension, Professional development related activities
<ul style="list-style-type: none">Planned to guide to do the mini project to IV year students. <p>Completed Work for the year 2020-2021</p> <ul style="list-style-type: none">Actively participated in FDP conducted through online.Arranged project phase-I for final year students.
Research, Publications and Academic contributions
<ul style="list-style-type: none">Paper published in scopus journal.Planned to Present papers in IEEE Conferences.

Signature of the Faculty

HOD/EIE



For the Academic Year 2021-2022 - Work Plan

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

Teaching, Learning and Evaluation related activities
<ul style="list-style-type: none">Teaching of the courses assigned <p>ODD SEMESTER</p> <ol style="list-style-type: none">Basic Electronics – III yr B.Sc (Physics)Digital Electronics – II Yr CSEBattery Technology – IV Yr EIE & Mechatronics <p>1. Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals.</p> <ul style="list-style-type: none">Prepare Lab manual for Digital Electronics Lab.
<p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Prepared Battery Technology Study Material.All the odd & even semester subject syllabus, internal evaluation and assessments are completed.
Co-curricular, Extension, Professional development related activities
<ul style="list-style-type: none">To arrange a Workshop and Guest Lecture.To attend Faculty Development Program. <p>Completed Work for the previous year 2020-2021</p> <ul style="list-style-type: none">Participated Online ATAL FDPs in coordination with AICTE.Actively participated in Online workshop.
Research, Publications and Academic contributions
<ul style="list-style-type: none">Paper Published in SCOPUS Journal

Signature of the Faculty

HOD/EIE



25. DETAILS OF ADDITIONAL RESPONSIBILITIES OF THE STAFF

Additional Responsibilities for the Academic Year 2020-21

S.No	Description of Work	Faculty In Charge
1	Educational Tour, Industrial Visit, Internship Training, Workshop, Guest Lectures.	All Faculties
2	Placements	Dr.G.P.Sivakumar
3	IQAC	Dr.Janani.R
4	Time Table In charge	Mrs.K.Saraswathi &Dr.T.Sundar
5	Internal Test and University Exam related works	Dr.G.P.Sivakumar &Mr.S.S.Saravana kumar
6	Department Activity	Dr.T.Sundar
7	Result Snalysis & Feedback	Dr.T.Sundar &Mr.K.Vinayagamoorthy
8	Department Library	Mrs K.Sugapriya &Mr.K.Vinayagamoorthy
9	Research Coordinator	Mr.S.S.Saravana kumar
10	Student Attendance & Staff Attendance	Mrs.K.Saraswathi Mrs.K.Komathy Mr.K.Vinayagamoorthy
11	Web Updating	Mr.N.C.A.Boovarahan
12	Department Work (File Maintenance,stationery,Letters)	Mrs.V.Komala Mrs.K.Komathy
13	Department Profile Work	Mrs.V.Komala
14	Department Maintenance &Department Related outside/External work	Mr.G.Subramaniyan
15	Office Work	Mrs.K.Komathy Mr.K.Vinayagamoorthy



26. DETAILS OF CLASS COMMITTEE MEETINGS HELD SO FAR

03.10.2020

MINUTES OF CLASS COMMITTEE MEETING OF IV YEAR EIE & MECHATRONICS CONDUCTED ONLINE (GOOGLE MEET) 03.10.2020 at 1.30 PM.

Students Present:

1. IV Year EIE
2. IV Year Mechatronics

Staff Present : 1. Mrs. JANANI. R
2. Dr. G. PADMANABHA SIVAKUMAR (Class-in-charge)

HOD : Mr.V.SWAMINATHAN

The following points were discussed:

1. The important dates in the Academic schedule were informed to the students (Third Phase Online Class Schedule, Project Phase)
2. The students are advised to maintain good attendance percentage and they are informed not to miss the online classes.
3. The students are comfortable with the current semester Theory subjects.
4. Students are advised to clear all their arrear subjects by this end semester examinations.
5. The importance of the final year Project was explained to them and the students are motivated to do innovative projects.
6. Considering the COVID Scenario students are informed to concentrate on Simulation based projects which involves Data Sciences and Machine learning Algorithms for future benefits.
7. Students are advised to register for online SWAYAM courses.
8. Students are also advised to prepare well for the upcoming Software/Core Company Campus Recruitment Drives.
 - 1) Janani R
 - 2) Dr. G. PadmanabhaSivakumar

Class in Charge

HOD / EIE



03.10.2020

MINUTES OF CLASS COMMITTEE MEETING OF III YEAR EIE & MECHATRONICS CONDUCTED THROUGH ON ONLINE MODE ON 03.10.2020 at 12.15PM.

Students Present:

1. III Year EIE
2. IIIYear Mechatronics

Staff Present :

1. Mrs.K.SUGAPRIYA (EIE & Mechatronics Class-in-charge) 6.Mr. BOOVARAHAN
 2. Mrs. K.SARASWATHI REDDY 7. Mr. P.CHENGA
 3. Ms. JANANI.R 8. Mr. HARISH
 4. Dr. T LAKSHMIBAI
 5. Dr. D.VANITHA
- HOD : Mr.V.SWAMINATHAN

The following points were discussed:

1. The students are advised to maintain good attendance percentage.
2. The importance of various training programme offered through onlinewere informed.
3. The students are comfortable with the current semester Theory subjects.
4. It is informed to the students to pay the current semester fees.
5. Students are advised to concentrate on mini-projects and carrier guidance programme.
6. All the subjects of III year V semester EIE and Mechatronics syllabus completion nearly 3 Units.

K. Sugapriya

Class in Charge

V.Swaminathan

HOD / EIE



03.10.2020

**MINUTES OF CLASS COMMITTEE MEETING OF II YEAR MECHATRONICS
CONDUCTED ONLINE THROUGHGOOGLE MEET ON 03.10.2020 at 11.30AM.**

Students Present:

1. IYear Mechatronics

Staff Present :

1. Mr. S. S. SARAVANA KUMAR (Mechatronics Class-in-charge)
2. Dr. T LAKSHMIBAI
3. Dr. P. BALAJI
4. Dr. S.D. SATHISHKUMAR
5. Mr. G. V. KOTESWARA RAO

HOD : Mr.V.SWAMINATHAN

The following points were discussed:

1. The students are advised to maintain good attendance percentage and also informed not to miss the online classes.
2. Academic schedule were informed to the students.
3. The students are comfortable with the current semester Theory subjects.
4. It is informed to the students to pay the course fees for the present semester.
5. Almost 3 Units were completed in all the subjects.
6. Few students are facing issues in attending the classes due to COVID. And also advised them to take care of their health conditions.

Class in Charge

HOD / EIE



07.11.2020

MINUTES OF CLASS COMMITTEE MEETING OF III YEAR EIE & MECHATRONICS CONDUCTED THROUGH ON ONLINE MODE ON 07.11.2020 at 2.30PM.

Students Present:

1. III Year EIE
2. III Year Mechatronics

Staff Present :

1. Mrs. K.SUGAPRIYA (EIE & Mechatronics Class-in-charge) 6. Mr. BOOVARAHAN
2. Mrs. K.SARASWATHI REDDY 7. Mr. P.CHENGA
3. Ms. JANANI.R 8. Mr. HARISH
4. Dr. T LAKSHMIBAI
5. Dr. D.VANITHA

The following points were discussed:

1. The students are advised to plan for Internship and Industrial Training.
2. The importance of various training programme offered through online were informed.
3. The students are satisfied with the syllabus completion of current semester Theory subjects.
4. It is informed to the students about semester exam pattern and to pay the current semester examination fees.
5. Students are advised to concentrate on mini-projects and carrier guidance programme.
6. All the theory subjects of III year V semester EIE and Mechatronics syllabus were completed.

Class in Charge

HOD/EIE



08.11.2020

MINUTES OF CLASS COMMITTEE MEETING OF II YEAR MECHATRONICS
CONDUCTED ONLINE THROUGHGOOGLE MEET ON 08.11.2020 at 11.30AM.

Students Present:

1. IYear Mechatronics

Staff Present :

1. Mr. S. S. SARAVANA KUMAR (Mechatronics Class-in-charge)
2. Dr. T LAKSHMIBAI
3. Dr. P. BALAJI
4. Dr. S.D. SATHISHKUMAR
5. Mr. G. V. KOTESWARA RAO

HOD : Mr.V.SWAMINATHAN

The following points were discussed:

1. The students are satisfied with the syllabus completion of current semester Theory subjects.
2. Academic schedule were informed to the students.
3. Informed to the students about semester exam pattern.
4. It is informed to the students to pay the present semester examination fee.
5. Advised to the students about the importance of Soft Skills.
6. All the theory subjects of II year III semester Mechatronics syllabus were completed.

Class in Charge

HOD/EIE



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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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.



20.09.2020

From

Prof.V.Swaminathan
HOD/EIE
SCSVMV

To

Dr.G.Sriram
Dean (E&T)
SCSVMV

Dear Sir,

SUB:

MINUTES OF EIE STAFF MEETING CONDUCTED THROUGH ONLINE
MODE(Google Meet) ON 19.09.2020 at 4.30 PM.

Members attended:

HOD : Prof. V.SWAMINATHAN

Staff Present:

1. Mrs.K.Saraswathi
2. Dr.T.Sundar
3. Ms.R.Janani
4. Dr.T.Lakshmibai
5. Dr.G.P.Sivakumar
6. Mr.S.S.Saravanakumar
7. Mrs.K.Sugapriya
8. Mr.N.C.A.Boovarahan

The following are the points discussed:

1. At the starting of the meeting, precautions against Covid 19 pandemic were discussed.
2. Three phases of online classes were planned and now EIE dept moving with its second phase of online classes.

I phase – Aug 10 to Aug 26

II phase – Aug 28 to Sep 26



III phase – Sep 28 to Oct 31

3. All the important dates in the Academic schedule were informed and the work plan for I internal test was initiated which commences from Sep 21 to Sep 24.
4. In phase II classes, Aptitude, Soft skills and TCS training were included and slowly Sanskrit and Project to be included in Phase III for the betterment of students.
5. It is informed that the lower semester results will be announced by COE section coming week.
6. The pros and cons of having online classes and the steps to overcome the difficulty facing were discussed.
7. Class in-charges are asked to follow the fees pending details of the students.
8. All the staff members are informed to complete their syllabus before Oct 31, or arrangements will be made on request, if any staff needs extra class to complete their syllabus after Phase III.
9. Theory classes are conducted during this online class and practical classes will be planned to conduct after University resumes its normal situation. In that condition, proper precautions against pandemic will be followed like Digital thermometer at the entrance and in the hostel.
10. HOD informed, about his additional charge as IQAC/AQAR and staff congratulated him.
11. All are asked to submit the filled in IQAC form to the dept.
12. The updated curriculum and syllabus for both EIE and Mechatronics Engineering was uploaded in University website.
13. Admission strategy of this year was discussed and first year opening will be during December.
14. Next semester classes will be planned according to Government & AICTE/UGC directions and management will pursue new rules to resume students' academics.
15. Students are advised to register for some useful online course apart from their regular classes

HOD/EIE



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SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA

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Enathur, Kanchipuram - 631 561.



19.10.2020

From

To

Prof.V.Swaminathan
HOD/EIE
SCSVMV

Dr.G.Sriram
Dean (E&T)
SCSVMV

Dear Sir,

SUB:

MINUTES OF EIE STAFF MEETING CONDUCTED THROUGH ONLINE
MODE (Google Meet) ON 18.10.2020 at 4.00 PM.

Members attended:

HOD : Prof. V.SWAMINATHAN

Staff Present:

1. Mrs.K.Saraswathi
2. Dr.T.Sundar
3. Ms.R.Janani
4. Dr.T.Lakshmibai
5. Dr.G.P.Sivakumar
6. Mr.S.S.Saravanakumar
7. Mrs.K.Sugapriya
8. Mr.N.C.A.Boovarahan

The following are the points discussed:

1. At the starting of the meeting, HOD expressed his prayers to almighty against Covid 19 pandemic for the welfare of the staff.
2. During the Honorable Vice Chancellor's meeting held with higher officials on 14.10.2020, the highlights are:
 - i) This unpredicted covid 19 pandemic has given a path to online classes and the same method can be followed in future also to improve the standards of our University.
 - ii) Each staff should identify their talent in a specific subject/topic and make it as a video lecture including innovative examples for the students to make them understand in a lucid manner.



iii) Advised to publish articles in “CSI Transactions on ICT” Journal before 25.10.2020.

3. Out of three phases of online classes third phase is going on now in the EIE dept and all the staff members are requested to complete their theory syllabus in the III Phase itself. If not, extra classes will be allotted based on the request from individual staff for their syllabus completion.
4. All the important dates in the Academic schedule were informed and the work plan was initiated.

II internal test	-	28.10.2020 to 31.10.2020 (Including soft skills & Sanskrit)
Last working day	-	12.11.2020
Theory exams start from	-	18.11.2020
Next (Even) sem starts from	-	28.12.2020
5. Continuous Assessment Test marks of each subject should be submitted before University exam commences.
6. Class in-charges are insisted to monitor the attendance percentage of each student and asked to contact the parents of the students who are having poor attendance.
7. Theory classes are conducted through online mode and practical classes are planned to conduct in the University after University resumes to its normal condition.
8. Phase I Project exam has to be planned after the theory exams.
9. The theory exam question paper pattern is MCQ (Multiple choice Questions) with exam duration of 90 minutes.

Part-A = (30*1)	=	30 marks
Part-B = (15*2)	=	30 marks
Total	=	60 marks
10. Individual staff should upload the question paper along with answer key as per the pattern given through exam software to COE section.
11. Students should register in the student portal in our website for examination.
12. Class in-charges are asked to follow the fees pending details of the students.
13. Difficulty in adopting new OCMS was discussed.
14. First year opening will be held during third week of December and Orientation programme will be arranged to the students for first 15 days through online mode and the regular classes for them will also be continued through online itself until the University recommences to its normal condition.
15. PhD – research meetings will be conducted through online mode only until further decision is taken.



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16. Students should be encouraged to do some useful online courses apart from their regular classes.

10.11.2020

From

Prof.V.Swaminathan
HOD/EIE
SCSVMV

To

Dr.G.Sriram
Dean (E&T)
SCSVMV

Dear Sir,

SUB:

MINUTES OF EIE STAFF MEETING CONDUCTED THROUGH ONLINE
MODE (Google Meet) ON 06.11.2020 at 6.00 PM.

Members attended;

HOD: Prof. V.SWAMINATHAN

Staff Present:

1. Mrs.K.Saraswathi
2. Dr.T.Sundar
3. Ms.R.Janani
4. Dr.T.Lakshmibai
5. Dr.G.P.Sivakumar
6. Mr.S.S.Saravanakumar
7. Mrs.K.Sugapriya
8. Mr.N.C.A.Boovarahan

The following are the points discussed:

1. At first, HOD prayed almighty to bless all of us to meet together in person at the earliest and conveyed his Deepavalli wishes to all the staff members to celebrate in safety way.



2. It is informed that student portal was opened for odd semester exam registration of both theory and practical subjects.
3. The November 2020 odd semester online exam pattern was educated. The Multiple Choice Question pattern for 60 minutes duration consists of
 - Part-A = (30*1) = 30 marks
 - Part-B = (15*2) = 30 marks
 - Total = 60 marks

In addition, five extra question choices will be provided and best thirty answers in part A will be accounted for valuation.

4. Only essential department staff members alone are allowed to enter into the University after proper precautions and for others it is expected after Pongal holidays.
5. From November 16th to December 26th online University exams are planned to be conducted and before that the Project Phase I exam for 7th semester students' is to be conducted.
6. Discussions regarding the conduction of online practical classes for final year students were carried out in order to make them to participate in the campus interviews.
7. First year classes begins from 02.12.2020 through online mode only and Induction Programme is arranged for the new comers for first 15 days through online mode and the regular classes for them will be continued through online itself until the University resumes to its normal condition.
8. Informed staff members to enter Continuous Assessment Test marks of each subject in E Varsity portal before University exam commences.
9. Each staff are asked to apply for IEEE membership to facilitate easy conduct of IEEE funded Programs, Seminars and Projects.
10. Elective subjects for third and fourth year are to be finalized soon for even semester subjects.
11. Honorable Vice Chancellor's meeting highlights and advices are notified to all the staff for the betterment of University and students
12. Uploading of the question papers along with answer key is carried out as per the pattern given through exam software to COE section.
13. Class in-charges are insisted to monitor the attendance percentage and other academic works of each student

HOD/EIE



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Enathur, Kanchipuram - 631 561.



06.01.2021

From

To

Prof.V.Swaminathan

Dr.G.Sriram

HOD/EIE

Dean (E&T)

SCSVMV

SCSVMV

Dear Sir,

SUB:

MINUTES OF EIE STAFF MEETING CONDUCTED AT EIE HOD ROOM ON
05.01.2021 at 10.00 AM.

Members attended:

HOD : Prof. V.SWAMINATHAN

Staff Present:

1. Mrs.K.Saraswathi
2. Dr.T.Sundar
3. Ms.R.Janani
4. Dr.T.Lakshmibai
5. Mr. G.Subramaniam
6. Mrs V.Komala
7. Mr.K.Vinayagamoorthy

The following are the points discussed:

1. All the important dates in the Academic schedule were informed and the work plan was initiated.
2. Feedback by student is to be completed in the portal within this week.
3. E varsity link is initiated and the staff members have to update the student attendance. Individual staff should upload the shiksha OCMS & evarsity regularly.
4. Course materials for certain allotted subjects are submitted & remaining at the end of this sem
5. Theory classes are conducted through online mode as usual. Odd semester (previous sem) practical classes also started to conduct in the online mode itself.
6. It is planned to conduct odd semester practical classes during Sundays for both II & III year students.
7. Phase II University Project exam has planned to be held before the theory exams.
8. The theory exam question paper pattern is MCQ (Multiple choice Questions) for this even semester also.
9. First year II semester classes will be commenced from 31.03.2021.



10. PhD – research meetings will be conducted through online mode only until further decision is taken.

27. AINTENANCE OF STAFF RECORDS

S · N	NAME	DESIGNATIO N	<u>CL</u>	<u>EL</u>	<u>M</u> <u>L</u>	<u>R</u> <u>H</u>	<u>C</u> <u>H</u>	<u>O</u> <u>D</u>	<u>D</u> <u>L</u>	<u>P</u> <u>A</u>	<u>M</u> <u>A</u>	<u>V</u> <u>A</u>	<u>L</u> <u>OP</u>	<u>T</u> <u>O</u> <u>T</u>
1	Mr. V.SWAMINATHAN	Associate Professor & HOD	Nil											
2	Ms. K.SARASWATHI	Assistant Professor (Stage-II)												
3	Dr. SUNDAR.T	Assistant Professor												
4	Ms. JANANI R	Assistant Professor												
5	Dr. T.LAKSHMIBAI	Assistant Professor												
6	Dr. G PADMANABHA SIVAKUMAR	Assistant Professor												
7	Mr. SARAVANA KUMAR.S.S	Assistant Professor												
8	Mrs. K.SUGAPRIYA	Assistant Professor												
9	Mr. BOOVARAHAN	Assistant Professor												
10	Mr. G. SUBRAMANIYAN	Sr.Lab Instructor												
11	Ms. V.KOMALA	Lab Instructor												
13	Mr. K.VINAYAGAMOORTH Y	Lab Instructor												
14	Ms. K.KOMATHY	Lab Instructor												

Staff Leave Particulars

From 01/07/2020 to 30/06/2021

Staff Leave Particulars

From 01/07/2020 to 30/06/2021

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



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28. WORK ALLOTMENT DETAILS

Academic Year – 2020 -2021

Sl.No	Year / Dept	Class in Charge & Mentor
1.	I Year Mechatronics	Mrs.T.Lakshmibai
2.	II Year Mechatronics	Mr.S.S.Saravana kumar
3.	III Year EIE	Mrs.K.Sugapriya
4.	III Year Mechatronics	Mrs.K.Sugapriya
5.	IV Year EIE	Mrs.Janani.R
6.	IV Year Mechatronics	Mr.G.P.Sivakumar

HOD/EIE



29. 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



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SRI CHANDRASEKHARENDR SARASWATHI VISWA MAHAVIDYALAYA

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33.	Lab Manuals/others	-	4	-
34.	Staff Attendance/CL/EL/ML/OD Forms	-	1	-
35.	Invitations/Poster	4	-	-
	All Stock Register	-	-	4
	Profile book & feedback book	3		
36.	Fees Challon Details		2	
37.	Student Attendance Details		2	
38.	Finance Officer Letter/Circular			2
39.	AICTE		2	
40.	Bonafide Letter		2	
41.	Students profile (2009-2013)		3	
42.	Dept. Library books Details(Library shelf)			
43.	Minutes of Meeting			2
44.	Guest Lecture Letters/Address			2
45.	Nodal officer Circular/letter/ Research&Publication/ SJCAR/ SJAC			2
46.	Results (2010-14 Batch)	2		
47.	NAAC		2	
48.	Guest Lecture Feedback		3	
49.	Industrial Visit Feedback		3	
50.	Bills, Purchase order/demo bill for lab			1
51.	Internal Test Questions		4	
52.	Physical stock	4		
53.	Resume-Teaching &Non-Teaching		1	
54.	Instrumentation Society		1	
55.	Students Profile(2011-15 batch)		3	
56.	Results (2011-2015 batch)	2		
57.	Parents' Permission letter for Educational Tour		1	
58.	AAVISHKAR	4		
59.	Anti-Ragging			2
60.	Elective Selection		3	
61.	Results(2012-2016)	2		
62.	Placement Circular/Letter			2
63.	Students Profile(2012-16 batch)		3	
64.	Task Force		3	
65.	Industry-Academia Meet	1		
66.	Consultancy			5
67.	List of Publications-Staff			5
68.	Circuit branch syllabus		2	



69.	Dept Guest Lecture /Seminar /Symposium/IV/FDP/All Functions. With Reference to Circular no:039/2013-14			5
70.	Staff Profile		1	
71.	Ph.D Details			3
72.	Curriculum Feedback		3	
73.	Student Feedback Information		2	
74.	B.E Mechatronics Details		2	
75.	Students Profile (2013-2017 batch)		3	
76.	Results (2013-2017)	2		
77.	Parents-Teachers Meet		2	
78.	Students Performs Report		2	
79.	Annual Report		2	
80.	Results-EIE(2014-2018 BATCH)	2		
81.	Results-MCT(2014-2018 BATCH)	2		
82.	National Conference EIE-NCICA		1	
83.	Research Scholar files			3
84.	Project Details			3
85.	Syllabus-ME-Electronic and Control		5	
86.	IQAC		5	
87.	Research Colloquium			3
88.	Staff official details			3
89.	Students profile/EIE-(2014-2018 batch)		3	
90.	Students profile/Mechatronics-(2014-2018 batch)		3	
91.	Admission Details			5
92.	Results-EIE(2015-2019 BATCH)	2		
93.	Results-MCT(2015-2019 BATCH)	2		
94.	Alumini Meet		3	
95.	Internship/In plant/Other Training Program			2
96.	Students profile/EIE-(2015-2019 batch)		3	
97.	Students profile/Mechatronics-(2015-2019 batch)		3	
98.	Certificate Course		2	
99.	International Conference		1	
100.	Results MCT (2016-2020 Batch)	2		
101.	Results EIE (2016-2020 Batch)	2		
102.	Students profile/EIE-(2016-2020 batch)		3	
103.	Students profile/Mechatronics-(2016-2020 batch)		3	
104.	Students profile/ EIE & Mechatronics-(2017-2021 batch)		3	



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105.	MOU			2
106.	Students Feedback		3	
107.	Work shop /Robotics		1	
108.	Results- EIE (2017-2021 batch)	2		
109.	Results-Mechatronics (2017-2021 batch)	2		
110.	IEEE Project Expo		1	
111.	Students profile/ EIE & Mechatronics- (2017-2021 batch)		3	
112.	Results- EIE (2018-2022 batch)	2		
113.	Results-Mechatronics (2018-2022 batch)	2		



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30. APPENDIX

APPENDIX - 1

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REGULATIONS FOR

B.E (Electronics & Instrumentation Engineering)

FULL TIME PROGRAMME

CHOICE BASED CREDIT SYSTEM

(For Candidates admitted from the year 2014 onwards)



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DEPARTMENT OF

ELECTRONICS & INSTRUMENTATION ENGINEERING



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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.



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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.



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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



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similarly calculated considering all the courses taken from the time of admission.

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

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

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

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

ELECTIVES

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

Examination Pattern for Sanskrit & Indian Culture paper

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

First test	30 Marks
Second test	30 Marks
Assignment (G.D + Seminar + Attendance + Class test)	40 Marks

Total	100 Marks
Total Marks	100Marks
Passing Minimum marks	50%

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



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APPENDIX - 2

Fee Structure for Ph.D – July 2020/January 2021

Part Time - Mathematics, Management Studies, Education and Library & Information Science

Fee Structure	First Year	Second and Third Year	Fourth Year Onwards
Admission Fee	Rs.2,000	-	-
Course Fee	Rs.25,000	Rs.25,000	Rs.25,000
Caution Deposit (Refundable)	Rs.10,000	-	-
Doctoral Committee Fee	Rs.15,000	Rs.15,000	-
Special Fee	Rs.2,000	Rs.2,000	Rs.2,000
Total Fees	Rs.54,000	Rs.42,000	Rs.27,000

Part Time - Engineering, Physics, Chemistry, Computer Science Applications and Ayurveda

Fee Structure	First Year	Second and Third Year	Fourth Year Onwards
Admission Fee	Rs.2,000	-	-
Course Fee	Rs.25,000	Rs.25,000	Rs.25,000
Caution Deposit (Refundable)	Rs.10,000	-	-
Doctoral Committee Fee	Rs.15,000	Rs.15,000	-
Special Fee	Rs.7,000	Rs.7,000	Rs.7,000
Total Fees	Rs.59,000	Rs.47,000	Rs.32,000

Other Fees

Synopsis Submission – Rs.5,000 Thesis Submission – Rs.15,000 First / Second Extension of Period of Research– Rs.5,000	Thesis Resubmission Fees – Rs.15,000 Change of Guide / Category / Topic – Rs.10,000 Methodology Examination Fees – Rs.1000/- per paper
---	--

Part Time - Sanskrit, Tamil, Hindi and English and Full Time - All Departments

Fee Structure	First Year	Second and Third Year	Fourth Year Onwards
Admission Fee	Rs.2,000	-	-
Course Fee	Rs.2,000	Rs.2,000	Rs.2,000
Caution Deposit (Refundable)	Rs.1,000	-	-



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Doctoral Committee fee	Rs.5,000	Rs.5,000 0	-
Special Fee	Rs.2000	Rs.2000	Rs.2000
Total Fees	Rs.12,000 0	Rs.9,000 0	Rs.4,000
Other Fees			
Synopsis Submission – Rs.2,500 Thesis Submission – Rs.7,500 First / Second Extension of Period of Research– Rs.2,500		Thesis Resubmission Fees – Rs.7,500 Change of Guide / Category / Topic – Rs.5,000 Methodology Examination Fees – Rs.500/- per paper	



PUBLICATIONS OF STAFF MEMBERS

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DETECTION OF PLANT LEAF DISEASE USING IMAGE PROCESSING APPROACH

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Assistant Professor,

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SCSVMV, Kanchipuram, India

Abstract: The major causes for the decrease in the quality and quantity of agricultural production is plant diseases. Farmers encounter high difficulties in identifying and controlling plant diseases. Hence, it is of huge importance to diagnose the plant diseases at early stages so that accurate and timely action can be taken by the farmers to avoid future losses. The project focuses on the approach based on image processing using machine learning for identification of plant diseases. In this paper, we would propose an Android application that helps farmers for identifying plant disease by uploading a leaf image to the system. The system has a set of algorithms which can identify the type of disease. The input image given by the user to the system undergoes various processing steps to detect the disease and results are returned back to the user via web or android application.

Keywords: Image processing, CNN, OpenCV, Detection, Identification of plant leaf disease.

1. INTRODUCTION

In India grape productivity is highest in the world and there is scope to raise it further. Grape export from India is about 53,920 tonnes

valued at 48,500 that makes a share of nearly 1.54% of total export of grapes in world. Near about 70% of population depends on agriculture. Grapes are an important fruit crop in India. Due to disease on grape plant there is loss of about 20-40 % of crop.

Therefore,

there is a need to identify the diseases at the beginning and suggest solutions to the farmers so that maximum harms can be avoided so as to increase the yield.

The leaf infections may occur due to environmental condition changes such as huge rain fall, drastic changes in temperature or may be due to improper maintenance and some insects and pesticides. Once the disease-causing organisms such as bacteria, virus etc. entered into the leaf tissue, they starts multiplying and decreases the strength of the leaf and degradation starts. For instance, it is seen that the outbreak of diseases which leads to large scale death and famine.

The traditional methodology for disease detection is a just optic observation by specialists through that identification and detection of plant diseases is completed. For doing thus, an over sized team of specialists still as continuous watching of specialists are needed, that prices terribly high once farms are massive. At an equivalent time, in some countries, farmers don't have correct facilities or maybe concept that they'll contact specialists. Because of that consulting specialists even price high still as time overwhelming too. In such condition, the advised technique proves to be helpful in watching massive fields of crops. The automatic detection of the diseases by simply seeing the symptoms on the plant leaves makes it easier still as cheaper.

2. LITERATURE SURVEY

In 2017, Vishal Mani Tiwari, Tarun Gupta proposed a research paper "Plant leaf disease analysis using image processing technique with modified SVM-CS classifier" Here, dataset of disease affected leaves is considered for experimentation. The data set contains the plant leaves affected by Alternaria Alternata, Cercospora leaf spot, Anthracnose and Bacterial Blight along with some healthy leaf images. It uses SVM classifier, concept of cuckoo search and image processing techniques using MATLAB.

In 2017, Pallavi.S. Marathe, proposed a research paper "Plant Disease Detection using Digital Image Processing and GSM" The proposed system uses the digital image processing for plant disease detection and GSM for transmitting the name of the pesticide to the Farmer's mobile phone. Disease identification contains steps like image acquisition, image pre-processing, image segmentation, feature extraction and classification, transmission.

In June 2018, Xihai Zhang, Yue Qiao, Fanfeng Meng, Chengguo Fan and Mingming Zhang proposed a research paper "Identification of maize leaf diseases using improved deep Convolutional Neural Networks" In this paper training and testing of images are done by adjusting the parameters, changing the pooling combinations, adding dropout operations, rectify linear unit functions, and reducing the number of classifiers. By using digital image processing techniques, Support Vector Machine, neural



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networks, we can detect and classify leaf disease. GoogleLeNet and Cifar10 being two improved deep CNN models, helped to achieve high identification accuracy of 98.9% and 98.8% resp. Recognition accuracy can be improved by improving the diversity of pooling operations.

In August 2018, M.N.Abu Bakar, A.H. Abdullah, N. Abdul Rahim, H. Yazid, S.N. Mismán and M.J. Masnan proposed a research paper "Rice Leaf Blast Disease Detection using Multilevel Color Image Thresholding" This paper detects the disease of Rice Leaf Blast. The methodology used is Multi-level color image thresholding and image processing technique.

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In 2018, Saradhambal.G, Dhivya.R, Latha.S, R.Rajesh, proposed a research paper "Plant Disease Detection and its solution using image classification" This paper proposed an enhanced k-mean clustering algorithm to predict the infected area of the leaves. The color-based segmentation model is defined to segment the infected region and placing it to its relevant classes. Experimental analysis were done on sample images in terms of time complexity and the area of infected region. Otsu classifier and k-means clustering algorithm is used in this paper. Disease detection contains steps like image acquisition, pre-processing, image segmentation, feature extraction and classification. Alternaria Alternata and Bacterial Blight diseases detected in this paper.

In April 2019, Abirami Devaraj, Karunya Rathan, Sarvepalli Jaahnavi and K Indira, proposed a research paper "Identification of plant disease using image processing technique" In this paper the diseases detected are Alternaria Alternata, Bacterial Blight, Antracnose, Cercospora leaf spot. The methodology used is image processing technique which uses k-means clustering algorithm.

3. PROPOSED SYSTEM

Our aim is to develop a software that finds and classifies diseases, ultimately providing its preventive measures and cure. So, we are developing a web-based application and an android app for the plant disease detection using image processing and machine learning. The image of the plant will be provided as an input to the system and this image will be further processed using image processing steps. For this we are using the OpenCV and then the image classification is done using machine learning which will detect the disease

of plant. The main algorithm used in the system is CNN (Convolution Neural Network). All of the system would be implemented using Python Language. Our next module is the online suggestion of pesticide shops nearby from where the farmers can buy the required pesticide. And also a direct link to buy the product would be given.

Fig -1: System architecture

CONCLUSION

This paper deals with the application of Convolution Neural Network for recognizing the plant disease. One of the vital applications of image processing is to identify the image which is a vital tool of early disease detection for growth in crop production. This tool will help to lessen the time and cost consumed during manual prediction. From the results obtained above we can conclude that Convolution Neural Network (CNN) provides a remarkable accuracy in detecting the diseases. This work can be further extended to building a real time application which can identify further species of plants instead of just grapes.

The given system uses resizing, Gaussian filtering for image preprocessing to segment the leaf area, then finally CNN classification technique is used to detect the type of leaf disease.

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International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Model of Converter System of Interleaved Buck Boost with Proportional

Integral Derivative

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ABSTRACT

The role of power generation plays an important factor in day today life. Generation of power for utilization makes the power system a vital role in the economical world. To satisfied the need of power many novel methods of generating power using renewable energy sources are discussed in the trend. A model with software simulation in small scale production is made. The design of buck boost converter using interleaved connection were made and applied with the proportional integral derivative in the power generating system. The novel design is used with closed loop system of proportional integral derivative.

The developed simulation results of the model give an optimal reach in power generation.

Keywords: Interleaved Buck Boost Converter (IBBC), Maximum power point trackers (MPPT), Proportional Integral Derivative Controller (PIDC), Pulse Width Modulation (PWM), MatLab - Sim Power Systems

Introduction

A compact model in generation of power system with a buck boost converter applied in photovoltaic system gives an optimal result in generation of power with avoiding pollution and saves the environment from global warming. The general model of photovoltaic system gives less efficiency results; to overcome this many new methodologies are applied to get an optimal output. In this article we try to get an optimal power output using photovoltaic system generation of power applied with Proportional Integral Derivative with controller of Interleaved Buck Boost Converter.

The photovoltaic system is generally termed as transformation of energy source from heat energy to electrical power to be utilized. The power produced in photovoltaic system depends up on the intensity and temperature level of the solar power. In general the production of electricity was made using the transformation from solar system and saved in the battery cells to be utilized. A parallel arrangement of the battery cells in an ordered way the power generated can be stored with huge capacity and can be applied to small and large equipment.

The transformation of the energy sources is done by applying the converters. Many topologies for model of converters are used in photovoltaic system. Interleaved Buck Boost Converter is a novel model used in the conversion of energies. The voltage polarity was inverted to maintain the magnitude stability in the case of increase or decrease in the voltage. This conversion ratio of the model of interleaved buck boost photovoltaic system a buck boost converter model is required. The novel model of interleaved buck boost converter gives a best output compared with the most of the existing models. A brief discussion of photovoltaic system and converter is made from the literature and a new model of proportional integral derivative with interleaved buck boost converter is designed, simulated and results were executed. Suman Dwari [1] designed a model of DC - DC converter with step up high efficiency model in common active clamp and illustrated the model. T.Sundar

[2] given a novel approach in photovoltaic system using cascaded buck boost converter with closed loop system controlled by parallel arrangement and results was simulated. D.Lakshmi

[3] modeled an improved conversional step down converter to maintain the loss in low switch controller using buck converter. Il-Oun Lee [4] stated an improvement in conversional ratio reduction using low switch and buck converter with an illustration.



Design of Interleaved System of Cuk Converter Applied in Controller of Proportional Resonance
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ABSTRACT

The day today need of power generating system should be balanced in the real world aspects sum of the methodologies used to balance the sufficiency of generating system and there designs is discussed in brief. A designed model of cuk converters applied with the controller of proportional resonance is briefly discussed with the simulation. The modeled design is applied in a mini range scale and its software simulated results are tabulated.

Keywords: Interleaved Cuk Converter (ILCC); Maximum power point trackers (MPPT); Proportional \ Resonance Controller (PRC); Pulse Width Modulation (PWM); MatLab - Sim Power Systems

1. Introduction

A novel design with photovoltaic system to generate the power is applied by interleaved cuk converter with the implementation of proportional resonance controller in a parallel arrangement to get the maximum power generation as a green revolution. The existing models for the photovoltaic system are not sufficient to overcome the daily usage of power generation and there is a need of new methodologies in the field of photovoltaic system. By introducing a parallel arrangement of cuk converters is designed and implied with controller of proportional resonance in a closed loop system to get an efficiency results. The designed model is stimulated using sim power system and results were tabulated.

Generally photovoltaic system was explained as the energy transformation from the sun as heat energy to power system management as power energy used in the day today life. Mostly the generation of power is done by many methodologies which are not eco friendly, to overcome this difficulty resent research models turn towards photovoltaic system. In this research, focuses on the power generation for a small scale products using photovoltaic energy system. A new designed of Simulink diagram is proposed with the parallel Cuk converters operated for the closed loop system implied by proportional resonance controllers for the power generation.

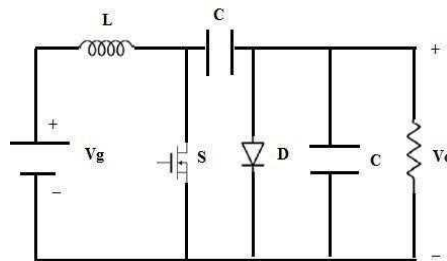


Fig.1 Circuit Diagram of Cuk Converter



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INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY EDUCATIONAL RESEARCH
ISSN: 2277-7881; IMPACT FACTOR: 6.514 (2021); IC VALUE: 5.16; ISI VALUE: 2.286
Peer Reviewed and Refereed Journal: VOLUME 10, ISSUE 4(B), April 2021
Online Copy Available: www.ijmer.in
Digital certificate of publication: <https://ijmer.in/pdf/fe-Certificate%20of%20Publication-IJMER.pdf>

IMPLEMENTATION OF ENERGY EFFICIENT GREEN COOLING UNIT INTEGRATING WITH IOT FOR HEAT SUPPRESSION

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ABSTRACT

The most common problem is the generation of overheating by the computers while it is working. Sometimes the performance and stability of computers can be affected. When there are multiple computers in an air-conditioned room, the generated heat makes the Air Conditioner to do more work, thereby increasing the power consumption of the Air Conditioner while they themselves generate a lot more heat, causing global warming cumulatively. In this paper, a new innovative cooling unit design was proposed to reduce the burden of air conditioner is discussed thereby saving power. By the design of a special type of computer table, the heat generating CPUs can be isolated from the AC room and fresh air from outside can be used to cool them resulting in a separate air circuit. This system further enhanced by integration with IoT. The temperature inside the cooling unit is monitored by a temperature sensor placed inside and the data are transferred to the controller. Depending on the temperature measurement, blower sends the fresh air inside and heat was reduced by bringing down the temperature. This results in reduced power consumption and lower heat generation.

Keywords: Heat Generation, Power Consumption, Computer, IoT, Cooling, Energy Saving.

INTRODUCTION

Computer laboratories and IT industries consisting of multiple computers contain many or powerful air conditioners, just to cool down the extra heat generated by the computers (Excluding the cooling required for people). For example, let us consider a computer lab with 5 air conditioners. Even when there are people in the room with the computers turned off, let's assume they need 2 air conditioners working. But with the computers active, then more air conditioners may need to be turned on maintain the temperature of the room (This was experimentally determined).

It is known that the computers use electricity and generates heat. This heat is removed out from the room by powerful Air conditioners which use more electricity while they themselves generate huge amounts of heat and ultimately all the cumulative heat transferred from both the computers and Air Conditioners are let out into the atmosphere, again which increases the global warming, while it's a bane for using too much electricity unnecessarily.

This paper mainly focuses on extracting the heat from the computers and moves them directly out of the room instead of letting the heat into the room and then cooling them using air conditioners which significantly reduces the power consumption and the heat generation.

This is effectively huge saving because it eliminates the use of 3, 1.5 Tonne ACs in the given example, resulting in savings about 5.8Kwh of energy [1 tonne 3 starred AC consumes — 1.954Kw of electricity].



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INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY EDUCATIONAL RESEARCH

ISSN:2277-7881; IMPACT FACTOR:7.816(2021); IC VALUE:5.16; ISI VALUE:2.286

Peer Reviewed and Refereed Journal VOLUME:10, ISSUE:03, May 2021

Online Copy of Article Publication Available: www.ijmer.in

Digital certificate of publication:<http://www.ijmer.in/pdf/Certificate%20of%20Publication-IJMER.pdf>

DOI:<http://ijmer.in/doi/2021/10.05.147>

Scopus Review ID: A2996D3ACF3FEA2A

Article Received: 10th May- Publication Date: 30th May 2021

DESIGN AND IMPLEMENTATION OF A SMART ENERGY MEASUREMENT SYSTEM

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Abstract: Everyday not only the household items, the electronic gadgets used by work from home people as well as students during this pandemic covid-19 period utilizing more electrical energy. Usually, the energy consumption can be monitored by the use of an electrical device called energy meter. But in the proposed system the conventional energy meter is converted as a smart meter with additional sensors added to monitor not only the energy in units, but usage of voltage and current is also monitored and displayed. Thus, the measured and monitored data are sent to cloud for later use of billing purpose. This paper discusses the IoT technology incorporated in this real time monitoring system for measuring various parameters. Also, because of the automatic system it can easily avoid human errors occurred during bill calculation.

Keywords: Energy Meter, Sensors, Internet of Things, Micro Controller, Wifi Module.

INTRODUCTION

The whole world is now becoming more technological savvy and India is also no exception to this growth. Now a day people are working in online by the 24*7, it will be really a boon if there is a facility to monitor how much energy is consumed by them through online from anywhere on the globe. The paper mainly deals with smart energy measurement system, which utilizes the features of embedded system. The paper discusses comparison of Arduino and other controllers, and the application of Wi-Fi modems to introduce "Smart" concept. Arduino unit continuously monitor and records the energy consumed reading in its permanent (non-volatile) memory location. This system continuously records the reading and the live meter reading can be displayed on webpage to the consumer on request.

PROPOSED METHODOLOGY

In the conventional system a person deputed by the electricity board has to go area by area to take energy consumed reading from the meter of every house and handover the bills. Also, here it will not inform the supplier side about any theft if it is happening in the system. This can be eliminated by the proposed smart energy system. This system continuously monitors the energy consumption and the reading is displayed in the meter. It eliminates the third party between the consumer and service provider.

It is possible to obtain the pattern of consumption as well as faultiness present in the conventional system. Also, it will alert the supplier about any theft is happening in the system. It is light weight and cost effective.

WORKING METHODOLOGY

The consumer is facing problems like receiving due bills for bills that have already been paid as well as poor reliability of electricity supply and quality even if bills are paid regularly. The remedy for all these problems is to keep track of the consumers load on timely basis, which will be held to assure accurate billing, track maximum demand and to detect threshold value. These are all the features to be considered for designing an efficient energy billing system. The proposed system addresses the problems faced by both the consumers and the distribution companies. The paper mainly deals with smart energy measurement system, which utilizes the features of embedded systems i.e., combination of hardware and software in order to implement desired functionality.



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International Conference on Recent Emerging Science, Engineering & Advanced Research in Communication and Healthcare-2021 (ICRESEARCH-2021), June 4th & 5th 2021, ISBN.No.-978-93-5473-898-2

IC-EB-456019

A Brief view on Telemedicine in today's COVID 19 Scenario - Challenges and Opportunities in India

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ABSTRACT: At the present scenario during this Covid19 pandemic, the death rate is high in rural area as well as all over the country due to unavailability of doctor and medical consultant for right from small diseases like Blood pressure, cold, fever, cough, Diabetes etc to the symptoms for Covid 19. If the affected persons will get treatment or consultant at proper time the death rate would have been reduced in our country. So the telemedicine is the perfect choice to protect our mankind to safeguard from this danger. Telemedicine provides patients to get immediate medication from highly qualifying doctor at his place with minimum cost. Telemedicine overcomes the deficiency of doctor and medical consultant in rural area. This paper discusses how telemedicine plays a role in the COVID 19 pandemic situation and challenges faced and technologies used to fight this.

Key words: healthcare, pandemic, video conferencing, AI tools, Real time monitoring.

I INTRODUCTION

Telemedicine provides significant healthcare using telecommunications technology by remote diagnosis and treatment of patients.

"Telecommunication Technology + Medicine" = Telemedicine

Telemedicine is nothing but the practise of medicine delivering proper care at a distant patient using technology. A telecommunications infrastructure is used by a physician in one location in order to deliver care to a patient at an isolated site.

Simply saying Telemedicine is, "the remote delivery of healthcare services".

Different types of telemedicine services like store and forward, real-time and remote or self-monitoring provides various educational, healthcare delivery and management, disease screening and disaster management services all over the world.

II TYPES OF TELEMEDICINE SERVICES

I. Store and Forward

- Non emergency services
- Tele-radiography/
Tele-dermatology



Design and Experimental Study of Automatic Colour Sorting by a Robotic Arm System

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ABSTRACT: In many industries there is a need of sorting of the manufacturing products. Sorting process is a difficult task faced by many industries. Automatic sorting using a proposed system overcomes the difficulties caused by the manual sorting. This proposed system designs a robotic system which comprises of colour object detection and sorting them according to colour. The three colours' objects viz. Red, Green and Blue are identified by a sensor. The robotic arm based on three motors is used to separate them. The TC53200 programmable module based on light is frequency converter technology is used to detect different coloured objects. This type of self-intelligent robotics system performs all the activity automatically by its own. This paper discusses about the proposed robotic system that is required in different industrial work where automated and self-intelligence is highly recommended. The experimental study assures perfect automation by fulfilling the higher production requirement with proper quality.

Keywords: Arduino Uno Micro controller, colour sensing, robotic arm, DC motor, sorting objects.

I INTRODUCTION

Robot is computer-generated machine-driven equipment. It is typically an electro-mechanical apparatus in which it is directed by the workstation or microelectronics software design, therefore capable of doing jobs on its individual. Alternative collective characteristics are that by its presence of sensors, the robot frequently delivers a logic that it has determined of action of its own. The robot denotes three separate functions called processing, action, and sensing. The attached sensor on the robot is processor, the onboard microcontroller or processors are the main units for processing and action is performed by using motor or additional mechanical elements.

II PROPOSED SYSTEM

The proposed system is a colour sorting robot by recognizing the different colours of the object, and collecting the object that are moving on the conveyor belt and distributes it in correct location

according to colour. It is mainly used in the risky or unknown environments where a person cannot do his job by reducing the risky work, time consumption and labour limitation. It is built by using the simple electronic devices like microcontroller for processing, DC motor for actions and colour sensor for recognizing different coloured objects.

III DIAGRAMS OF THE WORKING MODEL

BLOCK DIAGRAM



Fig. 1 Block Diagram

CIRCUIT DIAGRAM

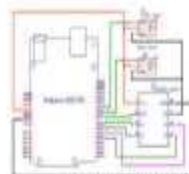


Fig. 2 Circuit Diagram

IV TOOLS REQUIRED

Hardware Requirements

- ARDUINO UNO3
- COLOR SENSOR-TC53200
- IR PHOTO TRANSISTOR
- STEPPER MOTOR
- COMPARATOR LM124
- MOTOR-DRIVER IC: L295D



Modeling and Control of Tray Temperature Along with Column Pressure in a Pilot Plant Distillation Column

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Received: 22 May 2020 / Accepted: 28 September 2020
© Springer Nature Singapore Pte Ltd 2020

Abstract

A simple control technique based on centralized and decentralized structure is discussed here for a tray temperature along with pressure developed inside the column for a pilot plant distillation column. The flow rate of vapor condenser cooling water is used to control the pressure (P) developed inside the column. The flow rate of the water to condense the vapor increases, when the column pressure increases and vice versa. Some of the other factor that has an impact on the column pressure is the boil-up rate, rate of reflux flow, feed rate, set point change in composition. The internal reflux and the speed of the vapor through the column gets affected by the pressure developed. There exists a strong interaction between the two interdependent variables pressure and temperature. The goal is to regulate the temperature and pressure near the bottom tray by nominally manipulating the reflux flow and boilup rate.

Keywords Decentralized controller · Centralized controller · MIMO process · Decoupler design

Introduction

Most of the petrochemical, cement industries are multivariable in nature. Multi-loop controllers are used to control these multivariable process and the process is regarded as a collection of multi-stage loops. PID controllers are commonly used for such processes. Distillation is a method used to distinguish pure liquid from a liquid blend. Distillation

is frequently used to refine the products as an inseparable aspect of the process industry. The column comprises of trays, a section for feed, reboiler, and drum for reflux, condenser and pressure transmitter. In the reflux tank, the condenser gathers the condensate and is stored. The temperature transmitters (4–20 mA) and RTDs are used to record the temperature from the bottom of the column. The pressure transmitter (0–0.5 bar) is used to record the pressure generated at the bottom of the column. In this work, a mixture of Isopropyl alcohol and water are considered.

For distillation in the ratio of 30 and 70. Here transfer function form of the mathematical model is used to carry out simulation studies. The two manipulated variables are

This article is part of the topical collection "Computational Statistics" guest edited by Anish Gupta, Mike Hinchey, Vincenzo Puri, Zeev Zalevsky and Wan Abdul Rahim.



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UWB MICROSTRIP PATCH ANTENNA FOR WIRELESS SENSOR APPLICATIONS

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ABSTRACT

In the modern world antenna plays a very vital role in the field of communication, the Ultrawide band antenna uses many types of wireless sensor applications. The proposed design consist of a circular microstrip patch antenna with diamond shaped slot is designed using jeans substrate material, it gives the good sensing in wireless communication at the resonance frequency of 9.5 GHz in the UWB range 3.1GHz to 10.6GHz. The Specific Absorption RateSAR value of an antenna in the acceptable range, it can be calculated with the Human Phantom. Hence the proposed UWB antenna gives the good VSWR, return loss and gain value compared with various UWB designs. the antenna gives good candidature for wireless sensor applications.

Keywords:UWB, Jean'sSubstrate and SAR.

I. INTRODUCTION

An antenna plays a vital role in communication, i.e., antenna is the heart for wireless communication technology. In the real time scenario scientific, industrial and medical applications are very important to our life travel process.an antenna is like a transducer, it converts one form of energy into another form that is transfer of



Review of Ultrawide band Micro strip patch antenna as a wireless sensor

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Abstract: Antenna plays a very popular role in communication field, especially the Microstrip patch antenna designed and investigated for digital IoT applications. This proposed paper deals about the various analysis of microstrip patch antenna design with the particular slot to enhance the performance of an antenna in the range of Ultrawide band 3.1GHz to 10.6GHz and various substrate materials are used to investigate the fabrication of an antenna. the characteristics of various antenna have been discussed, depending on the antenna parameters and its specific absorption rate (SAR) the antenna should be considered for the suitable wireless applications.

Index Terms- UWB, IoT and SAR

I. INTRODUCTION

The High speed, high data rate and low cost system gives the better performance in the communication industry. the UWB antenna design and fabrication

for UWB devices[7], the enhanced bandwidth with the suitable gain of an antenna was developed using the slot for IoT applications[8]. A UWB antenna developed for skin cancer detection in the medical field using the antenna array reconstruction algorithm with the wide bandwidth[9]. A full ground UWB antenna developed for human health monitoring and high-speed data transmission with the SAR in the acceptable range [10]. The UWB rectangular monopole antenna with circular ring was developed for industry and wireless applications [11]. A small size UWB antenna Investigated as wide fractional bandwidth for health monitoring using wireless technology WBAN system[12]. The UWB antenna with defected ground structure Investigated to enhance the bandwidth using the meander line slot in the circular patch to obtain the high gain during the UWB range[13]. On-body antenna developed with good directivity and bandwidth for wireless communication

1. Introduction

In this bottle filling system where the bottles to be filled moves on the conveyor belt, and automatically detected by proximity sensor in the



Vehicle to Everything an Introduction

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ABSTRACT

Vehicle-to-everything (V2X) is a vehicle-to-vehicle communication system that lets cars to communicate with moving portions of the traffic system around them. It contains multiple components and is also known as connected-vehicle-to-everything connectivity. Vehicle-to-vehicle (V2V) communication is one aspect of this technology that allows cars to talk with one another/Vehicle-to-infrastructure (V2I) is another component that allows cars to communicate with one other as well as several systems like street lights, buildings, and even a police and pedestrians. What this technology is capable of will depend on it becomes more advanced in the future.

Keywords: V2X, V2I

1. INTRODUCTION

V2X is a vehicle-to-vehicle communication system that uses short-range wireless signals to allow cars to connect with other vehicles and the environment around them. Vehicle-to-vehicle communication (V2V) and vehicle-to-infrastructure (V2I) are two subgroups of V2X. V2X is primarily utilized to improve safety, but it also has other advantages, such as the ability to automate toll payment (1). Understanding Vehicle-to-Everything (V2X)/V2X communication systems are primarily utilized for improving safety and reducing collisions. In a typical vehicle, V2X systems use more the direct short-range radio to monitor nearby accidents, road conditions, and the potentially harmful activities of neighboring vehicles. V2X adds to a vehicle's existing navigation system in autonomous vehicles.

To interact with compatible systems, V2X uses a short-range wireless signal that is resistant to interference and has no matter. V2X technology can also be used for other applications, such as integrating automatic payments for tolls, parking, and other fees. The market potential for V2X technology is enormous from an economic standpoint. Since 2016, impact has increased.

2. VEHICLE-TO-EVERYTHING (V2X) IS POPULARLY KNOWN

The V2X market is still in its early stages, and many of the system's advantages will not be recognized until the market matures. As V2X can use any communication with another V2X vehicle or roadside object that also uses V2X technology. Many traffic systems lack V2X systems, preventing vehicles equipped with the technology from communicating with them. Vehicles are projected to be able to communicate not only with traffic systems, but also with bicycles and pedestrians who have V2X devices as V2X systems become more popular.

Many prominent V2X vendors, such as Delphi, Harbin, Qualcomm, and Continental, have large-scale integration plans, so vehicle-to-everything technology is likely to increase dramatically over the next 20 years. Many modern car models, particularly luxury manufacturers, incorporate V2X technology in some way. Vehicle-to-everything systems are planned to be included in lower-cost vehicles in the future.

Vehicle-to-everything technology especially important in autonomous vehicles, which will help their immediate environment for diagnosis and make decisions based on that information. Vehicle-to-everything systems can also withstand the extreme weather conditions that self-driving cars.

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IMPLEMENTING TECHNOLOGICAL ADVANCES IN LPG SECTOR FOR GAS
LEAKAGE DETECTION USING RASPBERRY-PI CONTROLLER

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ABSTRACT

This paper will give an informative overview of the development of the liquefied natural gas sector. This project is carried out with the aim to create awareness about the leakage of the gas, as well as continuous monitoring of the cylinder by weight. We use a weight, and a gas sensor, a sensor for a certain amount of weight, and the gas leaking from the cylinder by a raspberry pi. With the help of a GSM module, a notification will be sent to a specified mobile phone number to notify them of a gas leak, as well as the weight of the cylinder.

Keywords: GSM module, Monitoring, Sensors, Gas leakages, Raspberry-pi

I. INTRODUCTION

Liquefied petroleum gas (LPG) is commonly used in household kitchen area, typically a gas geysers or heaters for the summer and the winter. At the same time, the industry is being used for a variety of purposes, such as baked, warm, and have a higher output at a lower price point. In addition, this gas is an igneous, gas, and can cause potential danger all the time. Therefore, it is the work that is being done in the Internet of Things (IoT), in order to reduce the probability of such an error is present the modelling of a microcontroller system for the detection and prevention of liquefied natural gas. In addition, they will prepare for an Android-based mobile device to the gas detection system that can be mounted in any position. The main objective of the project is to monitor the leakage of liquefied petroleum gas (LPG) in order to prevent fires, as well as to facilitate the security, where the security was a major issue, and the auto-order of the cylinders, without any human intervention.

II. METHODOLOGY

Power Supply, Gas sensor and Load cell are given as inputs to the Raspberry pi. GSM, LCD, Relay and Buzzer are given as outputs to the Raspberry-pi. Gas leakage detection is the process of identifying potentially hazardous gas leaks by sensors. These sensors usually employ an audible buzzer to alert when a dangerous gas has been detected. This detection is achieved by using Gas sensor, which is interfaced to the Raspberry pi. Whenever the sensor detects gas, a voltage is generated in it and is given as input to raspberry pi. The buzzer sounds when the gas has been detected it, will turn off the main gas cylinder valve and it will send emergency message to register mobile number using GSM, then it will measure the continuous cylinder weight using Load cell and updates the cylinder weight to the cloud. An LCD display indicates the cylinder weight. Whenever, the cylinder weighs less it will automatically send message to the owner to book a new cylinder. This data is stored in website page using Internet of Things. The entire phenomena taking place at the device can be witnessed by executing a python code and via imparting the required sensors.

III. MODELING

Block Diagram and final arrangement of components which are used is presented here in this section. This is the block representation of the project. Gas sensor is connected to the Raspberry controller and the loadcell monitor the weight continuously and sends the information to the controller. LCD panel used to indicate the weight details to the user. GSM module used for sending the message to the user incase of any gas leakage. The block diagram, is shown in Figure1. Figure 2 represents the fabricated system for the same. This system is working efficiently and the results are provided in the next section.



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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International Journal of Research Publications and Reviews, Vol. 2, Iss. 11, pp.462-468, November 2021.



International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Security Characteristics of 5G Communication Networks

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ABSTRACT

5G will deliver ubiquitous network services, enabling huge IoT connectivity, and delight users and judges with high mobility, low-latency, and cost-efficient services. The shift to IP-based communication in 5G has already aided the development of new business opportunities, however, 5G is viewed as a new ecosystem that connects practically all parts of society to the network, including vehicles, household appliances, health care, industry, businesses, and so on. However, the evolution will offer a new set of risks and security challenges, posing a significant threat to both users and their networks. 5G will contain vital security infrastructures in the network, for example, and security threats to such critical infrastructures might have disastrous consequences for both the infrastructure and the users that it serves. As a result, security of 5G and systems connected via 5G must be considered from the beginning of the design process. The design concepts of 5G are briefly discussed here in order to elaborate on the security issues of 5G.

Keywords: 5GPP, LTE, SON, NFVI

1.0 OVERVIEW OF 5G SECURITY ARCHITECTURE

A security architecture, according to the ITC-2, logically divides security aspects into independent architectural components. This provides for a more methodical approach to multi-level security of new services, making it easier to plan new security solutions and analyse the security of current services. The recent 5GPP technical specifications release established the 5G security architecture, which includes multiple domains. The security architecture, with the exception of domain 5G, is depicted in Figure 1 and consists of the following primary domains:

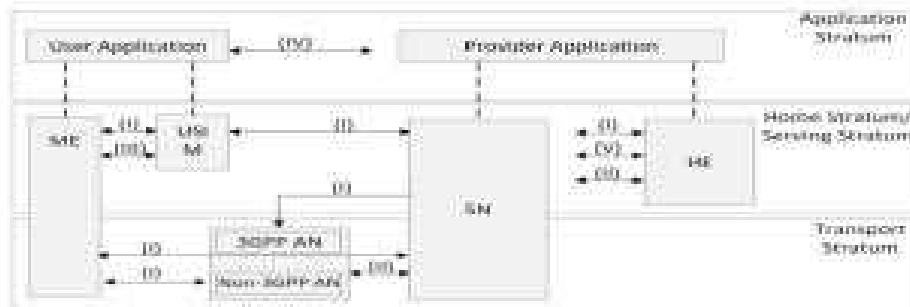


Fig.1 Overview of the system architecture

NAS(1)-Network Access Security: The set of security capabilities that allow a UE to authenticate and secure network services in a secure manner. The security of 5GPP and non-5GPP access technologies, as well as the transmission of security context from the SM to the UE, are all covered under access security.

NDS(2)-Network domain security: A set of security features that allow network nodes to communicate signals and user plane data in a secure manner.

UDS(3)-User domain security: Security characteristics that allow for secure user access to UE.



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International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com

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HOME APPLIANCES CONTROL USING GOOGLE ASSISTANT AND BLYNK

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A B S T R A C T The global increase in automation of products such as automobiles and electronics have been pushing for more efficient and faster. This trend has given rise to technologies specifically for automation in house hold appliances. The problem however is that many of appliances cannot be automated using conventional system. Hence we proposed a new technique where it made easy to control all the appliances in an ease way. Google assistant using Blynk makes it more reliable and also provides the better performance to control the appliances.

Keywords: ASRS, Google Assistant, SSID, Blynk.

1. Introduction

In my school days my principal used to say that, if you want to be a Engineer you need to invent new things and they must be used on a day to day basis, apart from this it must be user friendly . He told us, at the age of 60, as he was old he found difficulty in walking and even unable to switch on his fan. So He went to a show room and bought a device and he installed the device in fan so that he can operate the fan from bed. On that day I thought if a man can operate his fan with the comfort of lying on his bed, then why can't we operate all the devices of our house. And the world of internet made things much more interesting as now the appliances can be controlled using internet. In this project we can access all the A.C appliances through the internet connection. We have designed it to be operated by blynk app and google assistant (by voice command)

2. System Model



ESP8266 NODE MCU WIFI SOC:- NODE MCU is a open source prototyping board design. It is acts as a connecting device between software and hardware. These are low-cost breadboard-friendly modules which are aimed at providing a simple to configure and set up, hardware platform for developing ESP8266-based Lua IoT applications.

Fig. 1 - ESP8266 NODE MCU WIFI SOC

INTERNATIONAL JOURNAL OF RESEARCH PUBLICATION AND REVIEWS VOL
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4-WAY RELAY MODULE:- 4-way relay module is a user friendly device to breakout the voltage or current in the circuit. It plays a major role in the project. It works as a bridge if anything over loads it will break down and protect the system.

CONSTRUCTION OF THE PROJECT

Fig. 2 - 4-WAY RELAY MODULE Customizing Blynk app:- Initially we have to download the Blynk app from the play store and log in with our mail id, then we will get a authentication in our mail. We just need to check it and should create new project. Set pin as 0&1 in the given column and should also give the required name whichever we want, similarly should create the other buttons. Uploading the program in the node mcu with help of ESP8266 LOADER APP:- We need to connect ESP8266 NODE MCU and connect the OTG to the mobile. In our mobile we should download the ESP8266 LOADER (blynk uploader) and then open the app Enter into the file and select Blynk_Basic.ino.bin from the files. Then we should select set SSID(which means the name of your wifi) and set password (wifi password). Simultaneously set Blynk authentication number (which was send to our mail). Then we should upload the program into the mcu. After uploading we should scan our device to make sure that the pairing is done properly.

Functioning of the project:-

Fig. 1 - Block diagram of working of proposed system

The 5V AC power source is given to the node mcu. When the node mcu get the source, it will pair with the required Wi-Fi module automatically and is ready to function. In our mobile we should provide the command by blynk app or google assistant. It transmits the signal to the mobile network. Then the network sends the data to the connected Wi-Fi module then Wi-Fi



module transfers the data to node mcu where the node mcu

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receives the signal and starts processing, it gives permission to the relay by transmitting signal from node mcu to the relay module. The relay module transfers the AC current to the AC appliances.

3. Conclusion

The aim of the project was to propose a cost effective voice controlled automation (google assistant) for controlling appliances found in one's home. The project was successful as blynk app and google assistant controlled home automation (GACHA) design was successfully implemented. The system is highly reliable and efficient for the aged people and differently abled personnel who cannot reach the switch and are dependent on others. The future scope of GACHA and blynk app can be huge. There are many ways to improve and make GACHA more powerful, intelligent, scalable, and to be efficient for home automation. For example to control a fan, a coffee machine, a light, an air conditioner etc. To make the system respond on private blynk server can perform perfectly for our needs. No system is perfect. There is always scope for improvement and betterment. One just needs to put on a thinking cap and need to make things better and better

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श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
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ICCEMS-2020

IOP Conf. Series: Materials Science and Engineering 925 (2020) 012003

IOP Publishing

doi:10.1088/1757-899X/925/1/0120031

A Novel Approach for Improved Load Balancing and

Interference Reduction in Wireless Networks using OFDMA

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Abstract. The quality of service offered to the user equipment in Multihop cellular networks with proper connection is affected severely due to the fading effects. These fading effects can lead to link loss between the user equipment (UE) and base station. This problem is severe when the UE traveling inside of tunnel, forests and big buildings. The duration of the link loss may vary from seconds to hours. Link loss management can control the link loss, increase the coverage area and signal quality in cell boundaries. It requires predictive power and linkscheduling in cell sectors and signal quality enhancement at cell boundaries using filters.

Interference Coordination and Load Balancing at base station and UE algorithm is used. This paper introduces a link loss management algorithm with load balancing to provide seamless service to users and this increases the Quality of Service (QoS) of safety critical communications.

Keywords: Base Station, Cellular networks, Inter channel interference, Power distribution, Base station, Signal to interference plus noise ratio, MIMO channel model.

1. Introduction

Technologies for load balance between surrounding cells of a mobile wireless communication network

can reduce traffic congestion and improve network system capacity. The load balancing can be achieved

by changing different parameters of the radio access network. These modifications may be



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made at cell or adjacent cell level. The modifications can be made iteratively in response to different operational statistics gathered. The changes will change cell size and cell shape, as well as adapt the transfer to optimize system resources and the use of hardware. An iterative optimization method will obtain performance statistics and network configuration from a mobile wireless network on a regular basis.

The collected information can be periodically analyzed to determine parameter adjustments. Additional capacity configuration from the communication network can prevent or significantly delay the acquisition of additional hardware resources to mitigate device capacity problems. A widely used approach for evaluating the efficiency of a load balancing system is whether it provides a min-max balanced load solution [1]. Self-organized cellular networks include a set of functions for automated cellular network setup, optimization, and maintenance. Because mobile end-users continue to use network resources when traveling from one cell boundary to another, traffic within a cell is not constant.

Load balancing has thus become one of the most involved and evolving research fields in the Cellular

Network. It includes moving the load from overloaded cells to neighboring cells with free resources for

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