श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA

Deemed to be University (Accredited with "A" grade by NAAC)

Enathur, Kanchipuram - 631 561. Tamilnadu, India www.kanchiuniv.ac.in

Electronics & Instrumentation Engineering

DEPARTMENT PROFILE

2019 - 2020

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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

DEPARTMENT PROFILE 2019-2020

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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.

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, Xlinx, 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 First International IEEE Conference **"ICECEIC 2019"** in the month of January 2019, and 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.

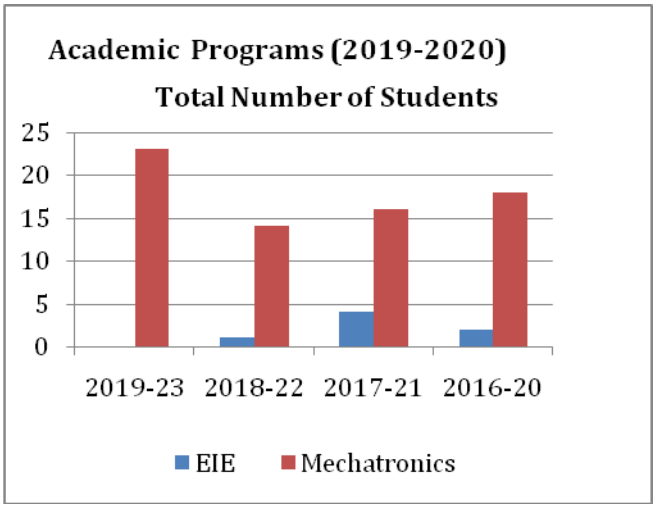
- **Program Educational Objectives**

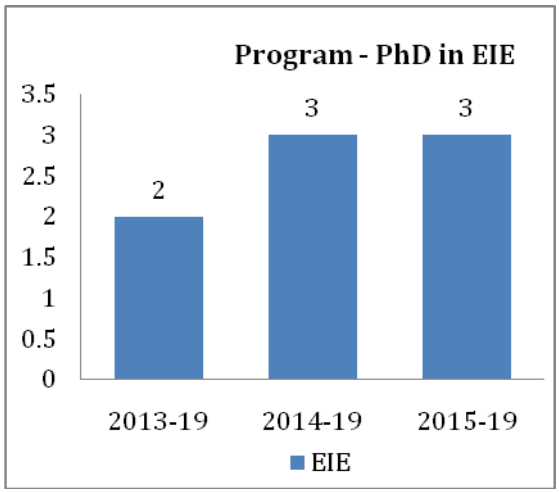
1. To design, develop product and application with multidisciplinary engineering expertise.
2. To use latest engineering tools to enhance the productivity in the field of automation.
3. Complex problem solving skill to innovate and research by applying multi-disciplinary environment (mechanical, electrical,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

4. ACADEMIC PROGRAMS (2019-2020)

PROGRAM	SANCTIONED STRENGTH	YEAR		TOTAL NUMBER OF STUDENTS STRENGTH
UG EIE	07	I	2019-23	Nil
		II	2018-22	01
		III	2017-21	04
		IV	2016-20	02
UG MECHATRONICS	71	I	2019-23	23
		II	2018-22	14
		III	2017-21	16
		IV	2016-20	18
RESEARCH (Ph.D in EIE dept)	08		2013-19	02
			2014-19	03
			2015-19	03

ACADEMIC PROGRAMS (2019-2020)





5. CURRICULAM

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

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

		Petro Chemical Industries ● Instrumentation and control in Food Processing ● Nuclear Instrumentation ● Machine Vision ● Aircraft Instrumentation ● Bio Medical Instrumentation

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

BIRDS EYE VIEW – EIE CURRICULUM

Electronics and Instrumentation Engineering – 2018 Regulation								
Year	First Year		Second Year		Third Year		Fourth Year	
	Semester I	Semester II	Semester III	Semester IV	Semester V	Semester VI	Semester VII	Semester VIII
Theory	English	M-2***	M-3***	Digital Signal Processing	PEC 1**	PEC 2**	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	
	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**

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	
	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 6	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

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	
	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	

***M -Mathematics**

BIRDS EYE VIEW –CURRICULUM

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

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

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

COURSE: Mechatronics Engineering

I Semester

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

II Semester

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

III Semester

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

* Not for CGPA

IV **Semester**

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

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

* Not for CGPA

V Semester

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

* Not for CGPA

VI Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PEC	Professional Elective II	3	-	-	3
2	OEC	Open Elective II	3	-	-	3
3	HSMC	Principles of Management and Professional Ethics	3	-	-	3

4	PCC	Microprocessors and Microcontrollers	3	-	-	3
5	PCC	PLC & Data Acquisition System	3	-	-	3
6	PCC	CAD / CAM	2	1	-	3
7	PCC	Microprocessors and Microcontrollers Lab	-	-	3	2
8	PCC	CAD / CAM Lab	-	-	3	2
9	PCC	PLC & Virtual Instrumentation Lab	-	-	3	2
10	Optional OEC*	French Primer / Japanese Primer / German Primer	-	-	1	2*
11	MC*	Soft Skills - IV	-	-	1	1*
		TOTAL	17	1	10	2+3*

* Not for CGPA

VII Semester

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PCC	Robotics & Automation	3	-	-	3
2	PEC	Professional Elective III	3	-	-	3
3	PEC	Professional Elective IV	3	-	-	3
4	PEC	Professional Elective V	3	-	-	3
5	OEC	Open Elective III	3	-	-	3
6	PCC	Robotics Automation & Process control Lab	-	-	3	2
7		Internship and Industrial Visit **	-	-	-	2
8		Project Work Phase -1	-	-	-	2
		TOTAL	15	-	3	21

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

VIII Semester

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

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

PROFESSIONAL ELECTIVE COURSES

S.No	Subject Category	Name of the Subject	L	T	P	C
1	PEC I **(V Sem)**	Theory of Machines	3	-	-	3
2		Metrology and quality control	3	-	-	3
3		Refrigeration and Air Conditioning	3	-	-	3
4		Internal Combustion Engines	3	-	-	3
5	PEC II **(VI Sem)**	Virtual Instrumentation	3	-	-	3
6		Energy Management and Industrial Safety	3	-	-	3
7		Process Control Instrumentation	3	-	-	3
8		Principles of Communication	3	-	-	3
9		Embedded Systems	3	-	-	3

10	PEC III **(VII Sem)**	Power Plant Instrumentation	3	-	-	3
11		Neural Networks and Fuzzy Logic Control	3	-	-	3
12		Battery Technology	3	-	-	3
13	PEC IV **(VII Sem)**	Machine Design	3	-	-	3
14		Finite Element Analysis	3	-	-	3
15		Design of Jigs and Fixtures	3	-	-	3
16		Total Quality Management				
17	PEC V **(VII Sem)**	Rapid Manufacturing Technologies	3	-	-	3
18		Computer Integrated Manufacturing CIM	3	-	-	3
19		Process Planning and Cost Estimation	3	-	-	3
20		Mechanical Vibration and noise control	3	-	-	3
21	PEC VI **(VIII Sem)**	Machine Vision	3	-	-	3
22		Autotronics	3	-	-	3
23		Design of Mechatronics Systems	3	-	-	3
24		Flexible manufacturing systems	3	-	-	3
25	PEC VII **(VIII Sem)**	Micro Electro Mechanical Systems (MEMS)	3	-	-	3
26		VLSI Design	3	-	-	3
27		IOT in Automation	3	-	-	3
28		Digital control System	3	-	-	3

OPEN ELECTIVE COURSES

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

6. ADMISSION DETAILS

II YEAR-EIE (2018-2022 BATCH)

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

III YEAR EIE (2017-2021 Batch)

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

IV YEAR EIE (2016-2020 Batch)

S.NO	REG.NO	NAME OF THE STUDENT	GENDER WISE	REGION – WIDE
1	11169G001	VITAPU GNANASAGAR	MALE	ANDRAPRADESH
2	11169G002	YAMINI PRIYA.R	FEMALE	TAMILNADU

ADMISSION DETAILS
I YEAR MECHATRONICS (2019-2023 BATCH)

S.NO	REG.NO	NAME	GENDER WISE	REGION - WIDE
1	11199H001	ADURI.HARI DATTA RAJA RAM	MALE	ANDRA PRADESH
2	11199H002	APPIKATLA VIJAY	MALE	ANDHRA PRADESH
3	11199H003	T.V.S.AVINASH	MALE	TAMIL NADU
4	11199H004	KAMATAM.BAAVESH REDDY	MALE	ANDHRA PRADESH
5	11199H005	S.BARATH KANNAA	MALE	TAMILNADU
6	11199H006	R.DEVANAND	MALE	TAMILNADU
7	11199H007	DINESH KUMAR.K	MALE	TAMILNADU
8	11199H008	G. LOHITH KUMAR	MALE	ANDHRA PRADESH
9	11199H009	G.SRI DURGA RAJESWARI	FEMALE	ANDHRAPRADESH
10	11199H010	HARI RAMANAN S	MALE	TAMIL NADU
11	11199H011	JAMBULA JAYA SURYA REDDY	MALE	TELANGANA
12	11199H012	K.SAI KALYAN	MALE	ANDHRA PRADESH
13	11199H013	MANU MAHAADEV G	MALE	TAMIL NADU
14	11199H015	P.SAKTHIVEL	MALE	TAMILNADU
15	11199H016	SK. YASEEN	MALE	ANDHRAPRADESH
16	11199H017	SHRINIVAS A	MALE	TAMILNADU
17	11199H018	S.CHAITANYA VENKAT	MALE	ANDHRA PRADESH
18	11199H019	SRIHARI B R	MALE	TAMILNADU
19	11199H020	THAMARAI SELVAN .D	MALE	TAMIL NADU
20	11199H021	ABHINAV KUMAR.V	MALE	TELANGANA
21	11199H022	VENKAT ACHYUTH MANTRALA	MALE	ANDHRA PRADESH
22	11199H023	GURRAM SAI SANDEEP	MALE	ANDHRA PRADESH

ADMISSION DETAILS

II 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

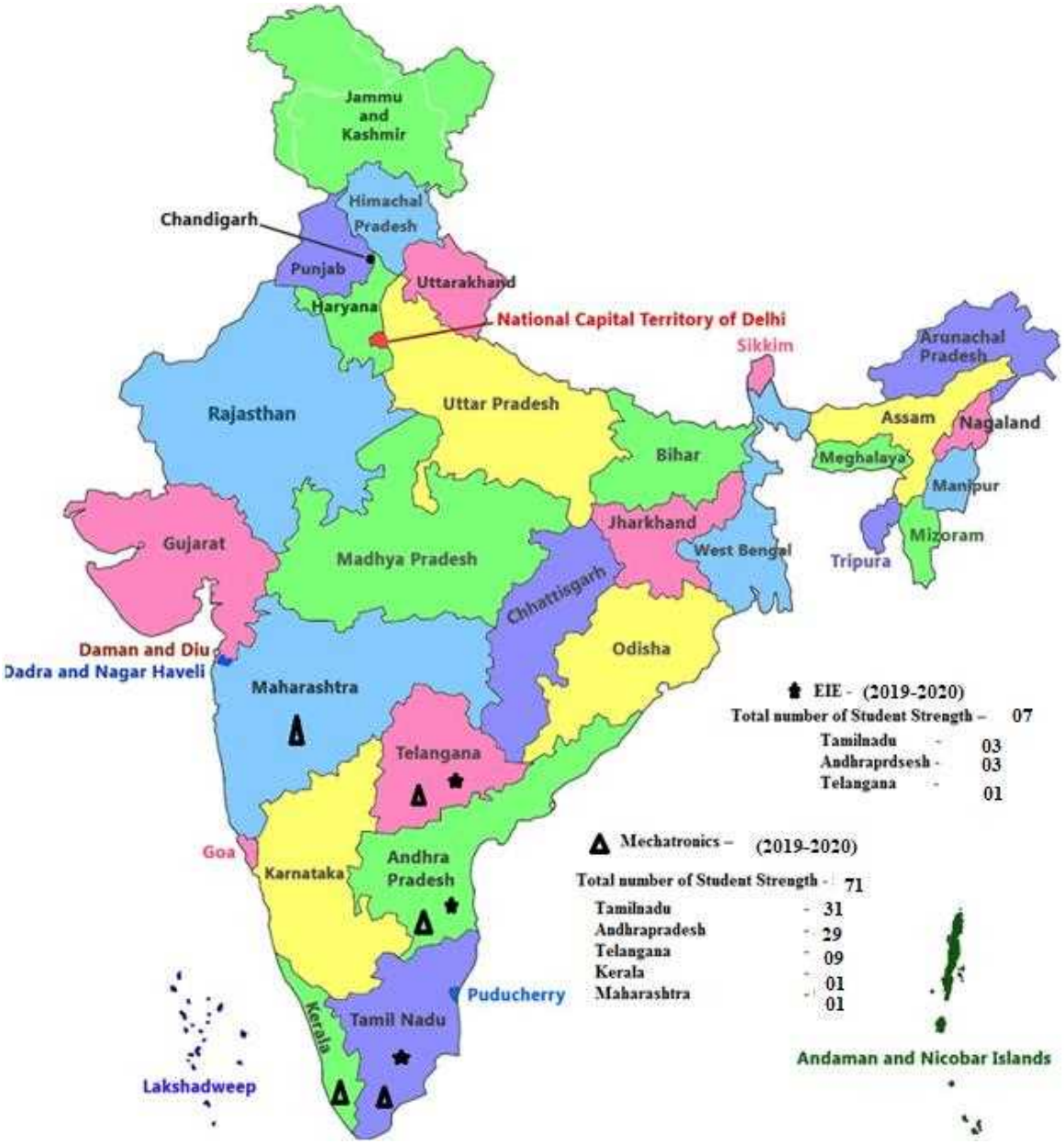
III YEAR MECHATRONICS (2017-2021 Batch)

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	ANDHRAPRADESH
8.	11179H008	RAHUL.M	MALE	TAMILNADU
9.	11179H009	RAMESH PAVITHRA	MALE	ANDHRAPRADESH
10.	11179H010	ROHIT IYENGAR.K.G	MALE	TAMILNADU
11.	11179H011	SANDHYAVANDANAM NAGESH PAVAN	MALE	ANDHRAPRADESH
12.	11179H012	SHAIK MOHAMMAD AZIZ	MALE	ANDHRAPRADESH
13.	11179H013	TARUN KUMAR .S	MALE	TAMILNADU
14.	11179H014	THATAVARTHI SRI SAI KUMAR PRABHAT NEERAJ	MALE	ANDHRAPRADESH
15.	11179H015	VADANALA VINUSHNA	FEMALE	ANDHRAPRADESH
16.	11179H016	VIKRAM. A	MALE	TAMILNADU

IV YEAR MECHATRONICS (2016-2020 Batch)

S.NO	REG.NO	NAME OF THE STUDENT	GENDER WISE	REGION – WIDE
1.	11169H001	ANJAI .S	MALE	KERALA
2.	11169H002	GAYATHRI. P	FEMALE	TAMILNADU
3.	11169H003	GUHAN.M	MALE	TAMILNADU
4.	11169H004	KORDE SHASHANK SUNIL	MALE	MAHARASHTRA
5.	11169H005	KORIVI VINOD	MALE	TELANGANA
6.	11169H006	LAXMANA SUNDRAM. K. S.	MALE	TAMILNADU
7.	11169H007	MANIGANDAN. K. P	MALE	TAMILNADU
8.	11169H009	RAKSHITH VIGNESHVAR. R	MALE	TELANGANA
9.	11169H010	SIVARAMAKRISHAN.M	MALE	TELANGANA
10.	11169H011	SRINIVASARAGHAVAN. S.	MALE	TELANGANA
11.	11169H012	SUSHIL.S	MALE	TELANGANA
12.	11169H013	VIJAYARAGHAVAN VENKATARAMAN	MALE	TELANGANA
13.	11169H014	BOLLEPALLI HARSHAVARDHAN	MALE	ANDRAPRADESH
14.	11169H015	MALLADI SAKETH KUMAR	MALE	ANDRAPRADESH
15.	11169H016	MANNAVA VIVEK	MALE	TAMIL NADU
16.	11169H017	SARVESWARAN. S	MALE	TAMIL NADU
17.	11169H018	M.SULTHAN	MALE	ANDRAPRADESH
18.	11169H019	DANIEL RAJASEKAR	MALE	TAMIL NADU

EIE - (In the academic year 2019-20)
(TOTAL NUMBER OF STUDENTS including I, II, III & IV Years)
EIE – 07
MECHATRONICS - 71



7. FEES STRUCTURE

REGULAR

Courses	Year/Sem	Year of admission	Without Scholarship	Scholarship		
				25%	35%	50%
B.E/B.Tech (IT) All Branches	I/II	2019-20	60000	45000	39000	30000
	II/IV	2018-19	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	2017-18	60000	54000	45000	39000	30000

Courses	Year/Sem	Year of admission	Term Fee	Total
B.E/B.Tech (IT) All Branches	IV/VIII	2016-17	56500	56500

Courses	Year/Sem	Year of admission	Term Fee	Computer Fee	Total
M.E (Power System)	I/II	2019-20	36000	5000	41000
M.E (Engineering Design)	I/II	2019-20	36000	5000	41000

B.E (Lateral Entry)

Courses	Year of admission	Year	Sem	Tuition Fee	Development Fee	Total
B.E/B.Tech(IT) ALL BRANCHES	2019-20	II	IV	60000	-	60000
B.E/B.Tech(IT) ALL BRANCHES	2018-19	III	VI	60000	-	60000

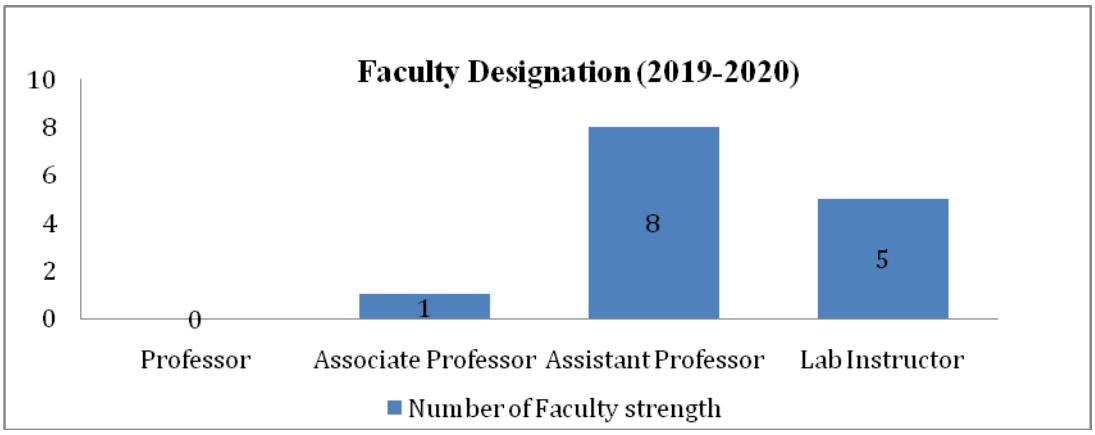
Courses	Year of admission	Year	Sem	Term Fee	Development Fee	Total
B.E/B.Tech(IT) ALL BRANCHES	2017-18	IV	VIII	60000	-	60000

8. FACULTY POSITION – (2019-2020)

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.	Ms.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.	Ms.K.Soundari	DECE., M.C.A	Lab Instructor
14.	Mr.K.Vinayagamoorthy	DECE	Lab Instructor

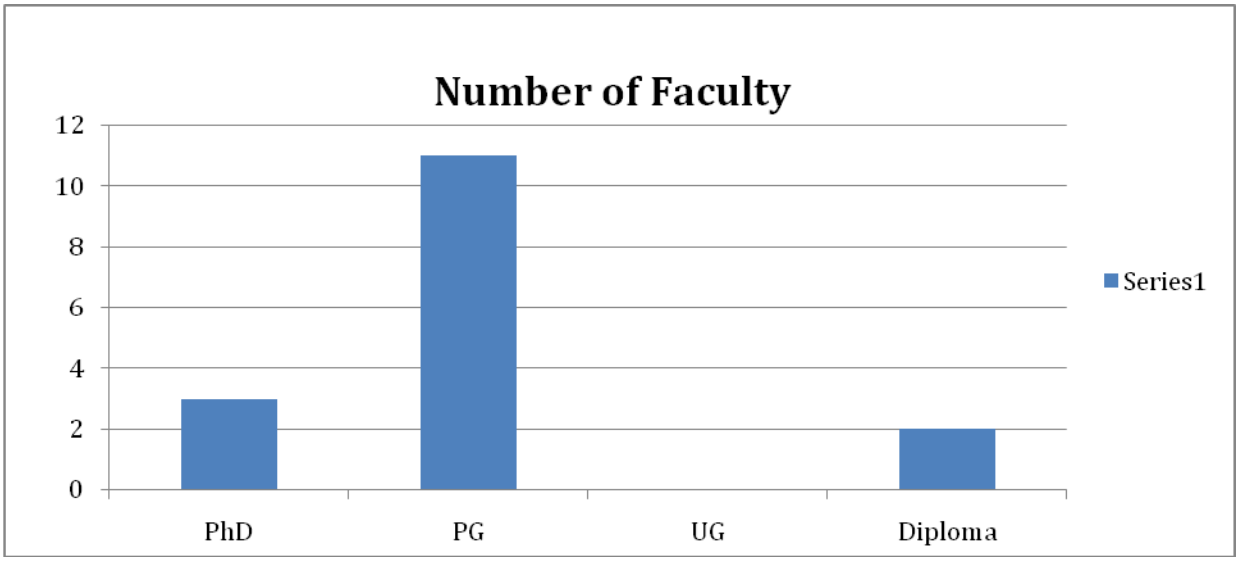
Designation

Designation	Professor	Associate Professor	Assistant Professor	Lab Instructor
Faculty strength	-	1	8	5



Qualification

Qualification	PhD	PG	UG	Diploma
Number of Faculty	3	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 (2019), “A Review Paper on Electricity Generation from Solar Energy”, in International Journal of Scientific Development and Research
- K. Saraswathi (2019), “A Smart IoT and SCADA based Architecture for Oil and Gas Industry”, in International Journal of Scientific Research in Engineering and Management (IJSREM)

Other Professional Experiences

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

Dr. T. Sundar
Assistant Professor,

Area: Electronics and Instrumentation Engineering,
Affiliation: Department of Electronics and Instrumentation Engineering,
Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya (SCSVMV),
Enathur, Kanchipuram.
Email: sundar_151@yahoo.co.in

Education

DEEE	**Diploma in Electrical and ElectronicsEngineering**	**Board of Technical Education, 2000**

B.E.	**Instrumentation and Control Engineering**	**Madras University, 2003**
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

- Sundar. T (2020), "Design of Interleaved Buck Boost Converter with Proportional Integral Derivative Controller",.International Journal of Scientific Research in Engineering and Management, Volume 4, Issue 4, 2020.
- Sundar. T (2020), "Power Generation by Solar Energy Based with Improved Controller of Proportional Resonance", International Journal for Scientific Research & Development, Vol. 8, Issue 3, ISSN (online): 2321-0613, 2020.

Other Professional Experiences

- Member of Universal Association of Computer and Electronics Engineers AM10100054528
- IAENG – International Association of Engineers 145755

Janani .R
Assistant Professor,

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

Education

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

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

- 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), "Implementation Of Health Monitoring System Using RFID", in. International Journal of Scientific Research in Engineering and Management (IJSREM)
- T. Lakshmibai (2020), "A Novel Approach to Accident Detection System using GSM", in International Journal for Scientific Research & Development| Vol. 8, Issue 3, 2020 | ISSN (online): 2321-0613

Other Professional Experiences

- IEI – Institution of Engineers(India) M123226-0
- ISTE – The Indian Society for Technical Education LM11427
- UACEE – Universal Association of Computer & Electronics Engineers AM1004286
- IAENG – International Association of Engineers M145695

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

- G. Padmanabha Sivakumar (2020), “Color Responsive Robocam Using Image Processing”, in International Journal of Research Publication and Reviews.
- G. Padmanabha Sivakumar (2020), “Smart Industries Using the Internet of Things”, in International Journal of Research Publication and Reviews.

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: dhivyasuga@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 (2018), "DESIGN OF DOUBLE SQUARE ARRAY MICROSTRIP ANTENNA FOR WIRELESS COMMUNICATION", in International Journal of Innovation In Engineering Research & Management

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 (2020), “Adaptive Sub-Channel Algorithm Based Spectrum Allocation in MC-CDMA Systems”, in International Journal of Research Publication and Reviews
- N.C. A. Boovarahan (2020), “A Survey for Improvisation MC-CDMA Systems to Massive MIMO Systems”, in International Journal of Research Publication and Reviews

Other Professional Experiences

- IAENG – International Association of Engineers M141657

Mr. G. Subramaniyan
Senior Lab Instructor,

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

Education

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

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.

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

Mrs. K.Komathy
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, 1999**
B.E	Electronics and Communication Engineering	SCSVMV 2012
M.E.	VLSI Design	Anna University 2015

Other Details:

Lab

- Electronic Devices and Circuits Lab, Analog and Digital Communication Lab, Digital Electronics Lab, Virtual Instrumentation Lab

Other Professional Experiences

- Lab Instructor in Dept of ECE, Arulmigu Meenakshi Amman Engineering College during 2000-2012.

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

II 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

III YEAR - EIE (2017-2021 BATCH)

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

IV YEAR - EIE (2016-2020 BATCH)

S.No	Student Name/ Register number/ Date of Birth	Father Name	Permanent Address	E-mail id	Mobile Number
1	Vitapu Gnanasagar 11169G001 6/5/1999	Vitapu Suryanarayana	Near Saibaba Temple , Vidyanagar ,Kota (md), Nellore (dist),AP	vitapugnanasagar@gmail.com	9790267847
2	Yamini Priya.R 11169G002 6/27/1999	Ramesh.N	no:37/42, Maduran Thottam Street, Near Bustand , Kanchipuram,TN	yaminiramesh31@gmail.com	9626832910

I 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@kanchiuniv.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 KANNAA. S 11199H005 08/02/2002	SAMPATH KUMAR. S. V	No.30,ezhil nagar, Sedhukarai, Gudiyattam, Vellore dist, Tamil nadu. Pin-632 602		9677640145
6	DEVANAND. R 11199H006 29/01/2002	S. RAVI	5-158, Kagithapattarai Rajakulam post Lalapet Walajahpet taluk Vellore dist-632405		9944275034
7	DINESHKUMAR. K 11199H007 19/04/2001	KANNIYAPPA N. A	109-161, Perumal koil street Panavaram post Mangalam, banavaram Vellore dist-632505		9787826475
8	GANGARAJU LOHITH KUMAR 11199H008 13/04/2002	G. MAHESHWAR RAJU	105-a, 3rd cross Keshavayana gunta Bairagipetta Tirupathi Andhra Pradesh-517501		9398612751
9	GUNDAMPATI SRI DURGA RAJESWARI 11199H009 08/06/2001	PRADHUYUMNA KUMAR	H no 87/07/ 5104 Nagireddy revenue Colony Kurnool 518001		9963876235 Father
10	HARI RAMANAN. S 11199H010 10/08/2001	SIVAKUMAR. V	22/8c Sri vinayaka apats Kannika colony 1st street Nanganallur Chennai		08825503634
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 veternary Hospital kannuru Vijayawada -krishna dist Andhra Pradesh		9666369494
13	MANU MAHAADEV. G 11199H013 16/12/2000	GANESH. J	Flat no 5 santhosh Apartments dr Ramaswamy salai K K nagar Chennai 78		9442990070
14	SAKTHIVEL. P 11199H015 10/01/2001	PUNNIYAKOTI. K	Plot no 100 Thiruveethipallam Vignesh nagar Kanchipuram 631502		9443118688
15	SHAIK. YASEEN 11199H016 30/04/2002	SHAIK IMTHIYAZ	Pallavi street raghava pet Sullurpet Nellore		8121546605
16	SHRINIVAS. A 11199H017 05/11/2001	ANAND. S	2A Balaji nagar Extension reddiyar nagar Korattur Chennai		940510376
17	SINGAMSETTI CHAITANYA VENKAT 11199H018 17/02/2002	SINGAMESETTI SRINIVASA RAO	D-2-174 Undavalli Guntur AP		9704755326
18	SRIHARI. B. R 11199H019 23/06/2001	RAMAKRISHNAN. N	39, Sriram nagar Thndalam Walajapet-632401		8056726626
19	THAMARAI SELVAN. D 11199H020 20/09/2002	DIMITRAO. K	no.26-70, Gangadhara Swamy madalaya street Pichanoor Gudiyattam Vellore-632602		7904932633
20	VUPPALA ABHINAV KUMAR 11199H021 27/04/2002	VUPPALA AJAY KUMAR	H no 5/1/145 Sahebnagar Vanasthalipuram Hyderabad		7794093779
21	VENKAT ACHYUTH MANTRALA 11199H022 16/06/2002	SAI VENUGOPAL MANTRALA	D.no.2-435,road no.2, Balaji nagar, Bapanna dora colany, Ramanayya peta, Kakinada, E.G. Dist,		701374856

II 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 08/06/20011	RAVI RAMA CHANDRA MURTHY	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
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

III 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	E Manjunath 11179H003 1/3/2003	S Eswaran	No 162 malligai cross street poompozhil nagar Avadi Chenai 600062	eswaranmanjunath@gmail.com	9444399014
3	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
4	K.R.Nishok 11179H006 10/11/1999	M.Ravi	No.1037/5, Mariyaamman kovil Street, Poonthottham, Thiruvarur District.	nishokpoovai609503@gmail.com	8270224820
5	M.Rahul 11179H008 30-12-99	N.Muralidharan	dept of EIE scsvmv university	rahulresi10@gmail.com	7094402470

6	Ramesh Pavithra 11179H009 12/6/2000	N.K.Ramesh	new C type quaters d.no-53 near by madhavanilayam Tirumala	rameshpavithra126@gmail.com	7598956103
7	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
8	S.Nagesh Pavan 11179H011 6/8/2000	S.Narayana Rao	5/20 , Dhabade Street , Pamidi, 515775, Anantapur Dist , Andhra Pradesh	nageshpavan98@gmail.com	9550842002
9	Shaik Mohammed Aziz 11179H012 18-12-99	shaik khadar vali	Koneru Street,Ulavapadu,Prakasam (Dist),Andhra Pradesh	shaikmohammedaziz007@gmail.com	9502846420
10	Tarun Kumar.S 11179H013 29-05-00	Siva kumar.A	No:18 S.M Doss Avenue ,Iyappa Nagar (West),Kanchipuram	tarunbestie00@gmail.com	9787506700
11	Thatavarthi Sri Sai Kumar Prabhat Neeraj 11179H014 13-08-00	thatavathi satyanarayana	10_11_6 ,Beside Old Post Office , Old College Street ,Nagempeta, Peddapuram	neerajthatavarthi11@gmail.com	9441141760
12	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.com	9629444785
13	S.Dinesh Kumar 11179H002 13-06-00	A.Suresh	(2/910)SUNGUVAR CHATRAM 602106,Sriperumbhudhur,Kanchipuram Dt,Tamilnadu	sdk130600@gmail.com	7339477303

IV YEAR - MECHATRONICS (2016-2020 BATCH)

S.No	Student Name/ Register number/ Date of Birth	Father Name	Permanent Address	Mobile Number
1	Anjai .S 11169H001 4/20/1997	Sanil Kumar .V	Vayalathala House, Konni, Pathanam Thitta (Dist),Pin:689691	9447378438
2	Gayathri. P 11169H002 5/30/1999	N. Premanand	38, Godhavari, Dae Township,Anupuram Pin:603 127	9445976374
3	Guhan.M 11169H003 12/5/1998	M. Mohan	5/658, First Main Road,2nd Cross, Muneeswar Nagar, Hosur Pin:635 109	9894723684
4	Korde Shashank Sunil 11169H004 1/4/1999	Korde Sunil	Plot No.1011, Beama Nagar,Itarsi, Nagpur. Pin:440002	9372962930
5	Korivi Vinod 11169H005 7/31/1998	K. Chandram	1-1-81/C/2, Mothi Nagar, Mahabub Nagar, Pin:509 001	9490324090
6	Laxmana Sundram. K. S. 11169H006 1/12/1998	M.K. Sundaram	44b, Jawahar Main Road,Nrt Nagar Theni Pin:625531	9865153197
7	Manigandan. K. P 11169H007 17/12/1998	Panneer Selvam G.K	No.43, Kabula Kandigai Village, Manauu Post, Thiruttani (Tk) Thiruvallur (Dist), Pin:631 210	9444743939
8	Nagam Rahul 11169H008 25/09/1998	Nagam Vinod Kumar	Flat No.404, 5th Floor Jhansi Recidency Nizampet Road, Hyderabad-500072	8686835750
9	Rakshith Vigneshvar. R 11169H009 31/12/1999	S. Rajendran	No.6, Ratna Vilas, Abdullapuram Koot Road,Dusi (Post), Thiruvannamalai (Dist), Pin:631 702	9443626948
10	Sivaramakrishan.M 11169H010 13/06/1999	Mahadevan .D	Plot No.113, Annai Garden, Trichy Pin:620 021	9750759329
11	Srinivasaraghavan. S. 11169H011 3/9/1998	S. Seshadhri	Door No.3,Flat New No.152, Sri Venkateshwara Apts,Ntr Street, Rangarajapuram,Kodambakkam.	9884924981
12	Sushil.S 11169H012 1/4/1999	Pullaiah .S	H3-8116, 5th Street,K.K.R. Town, Thapalpetti, Madhavaram, Chennai Pin:600 060	9042778305
13	Vijayaraghavan Venkataraman 11169H013 20/10/1996	P.Venkatraman	79, Sornambal Nagar, Ammachatram Kumbakonam, Thanjavur, Pin:612 103	9578571110

19.12.2018

11.FINANCIAL REPORT

Budget proposal for the financial year 2019-20

Name of the Dept: EIE

A.REVENUE

S.NO	Head of Account	Amount
1.	Board of Studies Exp.	15,000
2.	Educational Tour Exp.	-
3.	Guest lectures	10,000
4.	Guest lecture traveling	10,000
5.	Hospitality	10,000
6.	Lab Consumable	10,000
7.	Misc. Exp.	5,000
8.	Printing & Stationary	20,000
9.	Repairs& Replacement	10,000
10.	Seminar / Meeting / Function EIE Symposium(AAVISHKAR)/Conference	25,000
11.	Travelling Exp.& DA	5,000
12.	Research Activities	25,000
13.	Remuneration for part time Course	-
	TOTAL	• 1,45,000

B.CAPITAL

S.NO	Head of Account	Amount
1.	Books	1,00,000
2.	Computers& Software	25,000
3.	Furniture	-
4.	Lab Equipments	1,75,000
5.	Teaching Aids	-
	TOTAL	• 3,00,000

A. **REVENUE ITEMS:**

3. Guest Lectures Remuneration:
No. of Subjects to be handled by Guest Lectures : 10
Total No. of Hours allotted for each Subject : 03 Hours
Remuneration per Hour : ₹250
Total Amount Required : ₹10,000
4. Guest Lectures Travelling : ₹10,000
8. Printing and Stationery:
For printing of News Letter/Syllabus/other Items : ₹10,000
For General Stationery : ₹ 6,000
For Computer Peripherals (Toner, CD, Cable Etc.,): ₹4,000
9. Repairs and Replacements:
For Computer/Equipments : ₹ 7,000
For Furniture/others : ₹ 3,000
10. Seminar/Meeting/Function:
For Arrangements :
For Travelling : ₹ 15,000
For Hospitality : ₹ 5,000
For prizes and other Expenses : ₹ 5,000

B.CAPITAL ITEMS:

2. COMPUTERS AND SOFTWARE:

S.NO	ITEM	LAB NAME	AMOUNT
1	Pspice , Arcade,Visim & matlab Software	Technical programming Language Lab	25,000
		TOTAL	• 25,000

4. LAB EQUIPMENTS:

S.NO	ITEM	LAB NAME	Qty	AMOUNT
1	Arm Processor	Microprocessor& Micro Controller Lab	4	40,000
2	Arduino Kit		4	20,000
3	I to P Convertor	Process Control Lab	1	10,000
4	Calibrating Instruments	Industrial Instruments Lab		50,000
5	Sensors Trainer			50,000
			Total	• 1,70,000

INCOME / EXPENDITURE

Total income for the academic year 2019 -20
(Tution fees amount paid by the students)

First year	60,000 * 02 * 21	25 Lakhs
Second year	60,000 * 02 * 15	18 Lakhs
Thrid year	60,000 * 02 * 20	24 Lakhs
Final year	60,000 * 02 * 20	24 Lakhs
	Total Income	91 Lakhs

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

HOD/EIE

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

(Declared as Deemed-to-be University under Section 3 of the UGC Act, 1956,
Vide notification No.F.9.9/92-U-3 dated 26th May 1993 of the Govt. of India)

ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

ODD SEMESTER - TIME TABLE – 2019-20

12. TIME TABLE

Year: II –EIE **Semester : III**

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday	OOPS	M3	EDC	S&A	SS		M&I LAB		
Tuesday	EDC LAB			SS	MI		M3	EDC	SANS
Wednesday	EDC	OOPS	M3	SS	S&A		OOPS LAB		
Thursday	M3	S&A	OOPS	MI	LIB		S&A	EDC	SEM
Friday	S&A	MI	EDC	M3	SS		OOPS	SS	MI

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
	M3	MATHEMATICS –III – PROBABILITY AND STATISTICS	5	Dr. P. BALAJI	MATHS
	S&A	SENSORS AND ACTUATORS	5	Mr. S.S.SARAVANAKUMAR	EIE
	EDC	ELECTRONIC DEVICES AND CIRCUIT	5	Mr. N.C.A.BOOVARAHAN	EIE
	SS	SIGNALS AND SYSTEMS	5	Mr. S.S.SARAVANAKUMAR	EIE
	OOPS	OBJECT ORIENTED PROGRAMMING LANGUAGE USING C++	4		CSE
	M&I LAB	MEASUREMENTS & INSTRUMENTATION LAB	3	Mr. G. SUBRAMANIYAN	EIE
	EDC LAB	ELECTRON DEVICES AND CIRCUITS LAB	3	Mrs. K. SARASWATHI	EIE
	OOPS LAB	OBJECT ORIENTED PROGRAMMING LANGUAGE USING C++ LAB	3		CSE

TIME TABLE INCHARGE **HOD/ EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

(Declared as Deemed-to-be University under Section 3 of the UGC Act, 1956,
Vide notification No.F.9.9/92-U-3 dated 26th May 1993 of the Govt. of India)

ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

ODD SEMESTER - TIME TABLE – 2019-20

Year: III –EIE **Semester : V**

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday	PED LAB			PPI	M5		PPI	TDFM	SANS
Tuesday	PED	CS	DSP	OPEN ELECTIVE			PPI	M5	SEM
Wednesday	PED	PPI	M5	DSP	CS		PED	CS	TDFM
Thursday	TDFM	M5	CS	DSP	LIB		CS LAB		
Friday	M5	DSP	TDFM LAB				TDFM	PED	PPI

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
	M5	PROBABILITY AND RANDOM PROCESS	5	DR. J.SEGAMALASELVI	MATHS
EC5T4	CS	CONTROL SYSTEMS	4	JANANI. R	EIE
EI5T3	PPI	POWER PLANT INSTRUMENTATION	5	Mrs. K. SARASWATHI	EIE
EC5T5	DSP	DIGITAL SIGNAL PROCESSING	4	Mrs. K. SUGAPRIYA	EIE
EI5T4	PED	POWER ELECTRONICS AND DRIVES	4	DR. T. LAKSHMIBAI	EIE
ME5T6	TDFM	THERMODYNAMICS AND FLUID MECHANICS	4		MECHANICAL
SA5T5	SANS	SANSKRIT AND INDIAN CULTURE	1		EIE
ME5P6	TDFM LAB	THERMODYNAMICS AND FLUID MECHANICS LAB	3		MECHANICAL
EC5P7	PED LAB	POWER ELECTRONICS AND DRIVES LAB	3	DR. T. LAKSHMIBAI	EIE
EE5P8	CS LAB	CONTROL SYSTEMS LAB	3	JANANI. R	EIE

TIME TABLE INCHARGE **HOD/ EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

(Declared as Deemed-to-be University under Section 3 of the UGC Act, 1956,
Vide notification No.F.9.9/92-U-3 dated 26th May 1993 of the Govt. of India)

ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

ODD SEMESTER - TIME TABLE – 2019-20

Year: IV –EIE **Semester : VII**

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday	CCP	E-2	E-1	POM			VLSI	ES	CCP
Tuesday	VLSI	VLSI	CCP	E-1	ES		VI LAB		
Wednesday	ES	E-1	VLSI	POM			E-2	PROJECT	
Thursday	E-2	E-1	CCP LAB				POM	CCP	LIB
Friday	ES	VLSI	ES	CCP	SEM		E-2	PROJECT	

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
EC7T1	VLSI	VLSI DESIGN	5	Mr. S.S. SARAVANA KUMAR	EIE
EI7T2	ES	EMBEDDED SYSTEM	5	Mr. G. P. SIVAKUMAR	EIE
EI7T3	POM	PRINICIPLES OF MANAGEMENT AND PROFESSIONAL ETHICS	5	Mr. V. SWAMINATHAN	EIE
EI7T4	CCP	COMPUTER CONTROL OF PROCESS	5	Mrs. K. SARASWATHI	EIE
EI7E3	E-1	ADVANCED CONTROL SYSTEM	4	Ms. JANANI R	EIE
EI7EA	E-2	INSTRUMENTATION AND CONTROL IN PETROCHEMICAL INDUSTRIES	4	Mr. T. SUNDAR	EIE
EI7P7	CCP LAB	COMPUTER CONTROL LAB	3	Mrs. K. SARASWATHI	EIE
EI7P8	VI LAB	VIRTUAL INSTRUMENTATION LAB	3	Ms. JANANI R	EIE
EI7Z1	PROJECT	PROJECT WORK- PHASE 1	4	Mrs. K. SARASWATHI	EIE

TIME TABLE INCHARGE **HOD/ EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

ODD SEMESTER - TIME TABLE – 2019-20

Year: II –MECHATRONICS **Semester : III**

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday	OOPS	M3	EDC	S&A	EM		MF LAB		
Tuesday	EDC LAB			EM	MFT		M3	EDC	SANSKRIT
Wednesday	EDC	OOPS	M3	MFT	S&A		OOPS LAB		
Thursday	M3	S&A	OOPS	EM	MFT		S&A	EDC	SEM
Friday	S&A	EM	EDC	M3	LIB		OOPS	MFT	MFT

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
	M3	MATHEMATICS –III – PROBABILITY AND STATISTICS	5	Dr. P. BALAJI	MATHS
	S&A	SENSORS AND ACTUATORS	5	Dr. T. LAKSHMIBAI	EIE
	EDC	ELECTRONIC DEVICES AND CIRCUIT	5	Mr. N.C.A.BOOVARAHAN	EIE
	EM	ENGINEERING MECHANICS			MECHANICAL
	MFT	MANUFACTURING TECHNOLOGY FOR MECHATRONICS			MECHANICAL
CS3T6	OOPS	OBJECT ORIENTED PROGRAMMING LANGUAGE USING C++	4		CSE
ME3P6	MF LAB	MANUFACTURING PROCESS LAB	3		MECHANICAL
EI3P7	EDC LAB	ELECTRONIC DEVICES AND CIRCUITS	3	Mrs. K. SARASWATHI	EIE
CS3P9	OOPS LAB	OBJECT ORIENTED PROGRAMMING LANGUAGE USING C++ LAB	3		CSE

TIME TABLE INCHARGE **HOD/ EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

ODD SEMESTER - TIME TABLE – 2019-20

Year: III –MECHATRONICS **Semester : V**

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday	PED LAB			TOM	M5		TOM	THT	SANS
Tuesday	PED	CS	S&A	OPEN ELECTIVE			S&A	M5	TOM
Wednesday	PED	TOM	M5	S&A	CS		PED	CS	THT
Thursday	THT	M5	CS	S&A	TOM		MF&AD		
Friday	M5	S&A	TD LAB				THT	PED	LIB

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
	M5	PROBABILITY AND RANDOM PROCESS	5	DR. J.SEGAMALASELVI	MATHS
EI5T2	S&A	SENSORS AND ACTUATORS	5	Mr. T. SUNDAR	EIE
MG5T3	THT	THERMODYNAMICS AND HEAT TRANSFER	4		MECHANICAL
EC5T4	CS	CONTROL SYSTEMS	4	JANANI. R	EIE
MG5T4	TOM	THEORY OF MACHINES	5		MECHANICAL
EI5T4	PED	POWER ELECTRONICS AND DRIVES	4	DR. T. LAKSHMIBAI	EIE
SA5T5	SANS	SANSKRIT & INDIAN CULTURE V	1		
MH5P7	MF&AD	MANUFACTURING AND ASSEMBLY DRAWING	3		MECHANICAL
ME5P7	TD LAB	THERMODYNAMICS LAB	3		MECHANICAL
EC5P7	PED LAB	POWER ELECTRONICS AND DRIVES LAB	3	DR. T. LAKSHMIBAI	EIE

TIME TABLE INCHARGE **HOD/ EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

ODD SEMESTER - TIME TABLE – 2019-20

Year: IV –MECHATRONICS **Semester : VII**

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday	E-2	PLC	R& A	DOM	SEM		E-2	ES	E-1
Tuesday	E-1	R&A	E-2	DOM	ES		RT LAB		
Wednesday	ES	DOM	E-1	PLC	R&A		PLC	PROJECT	
Thursday	DOM	PLC	PLC LAB				R&A		LIB
Friday	ES	E-1	ES	E-2	DOM		PLC	PROJECT	

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
MH7T1	R&A	ROBOTICS AND AUTOMATION	5	Mrs. K. SUGAPRIYA	EIE
EI7T2	ES	EMBEDDED SYSTEMS	5	Mr. G.PADMANABHA SIVAKUMAR	EIE
MH7T3	DOM	DESIGN OF MECHATRONICS SYSTEM	5		MECHANICAL
MH7T4	PLC	PLC & DATA ACQUISTION SYSTEM	5	Mrs. K. SARASWATHI	EIE
MH7ED	E-1	VIRTUAL INSTRUMENTATION	4	Mrs. JANANI. R	EIE
MH7EI	E-2	RAPID MANUFACTURING TECHNOLOGIES	4		MECHANICAL
MH7P6	RT LAB	MECHATRONICS LAB (ROBOTICS & SIMULATION)	3		MECHANICAL
MH7P7	PLC LAB	PROGRAMMABLE LOGIC CONTROLLER LAB	3	Mrs. K. SARASWATHI	EIE
MH7Z1	PROJECT	PROJECT WORK- PHASE 1	4	Mr. N.C.A.BOOVARAHAN	EIE

TIME TABLE INCHARGE **HOD/ EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

EVEN SEMESTER - TIME TABLE – 2019-20

Year: II –EIE **Semester : IV**

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday	DE	DSP	DE	TD	POC		TD	LIC	SAN
Tuesday	TD	IND. INS	POC	DSP	LIC		DE	TD	LIB
Wednesday	POC	IND. INS	DE	LIC	DSP		LIC LAB		
Thursday	DSP	TD	TRANS LAB				LIC	LIC	POC
Friday	IND. INS	DE	DSP	IND. INS	POC		THERMAL LAB		

S. CODE	SUBJECT		Hours Allotted	STAFF HANDLING
	DE	DIGITAL ELECTRONICS	5	Mr. K. Sugapriya
	DSP	DIGITAL SIGNAL PROCESSING	5	Mr. S. S. Saravana Kumar
	TD	THERMODYNAMICS	5	Mr. P. Chenga Reddy
	POC	PRINICIPLES OF COMMUNICATION	5	Mr. N. C. A. Boovarahan
	LIC	LINEAR INTEGRATED CIRCUITS	5	Dr. T. Lakshmibai
	IND. INS	INDUSTRIAL INSTRUMENTATION	4	Mr. G. Subramaniyam
	TRANS LAB	TRANSDUCER LAB	3	Mr. G. Subramaniyam
	LIC LAB	LINEAR INTEGRATED CIRCUITS AND DIGITAL ELECTRONICS LAB	3	Dr. T. Lakshmibai
	THERMAL LAB	THERMAL ENGINEERING LAB	3	Mr. R. Balakumar

TIME TABLE INCHARGE **HOD/ EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

EVEN SEMESTER - TIME TABLE – 2019-20

Year: III –EIE **Semester : VI**

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday	OR	MPMC-EIE	ICP	FOLI	AI		PCI	OR	SANS
Tuesday	FOLI	FOLI	OR	PCI	AI		ICP LAB		
Wednesday	MPMC-EIE LAB			OR	MPMC-EIE		AI	ICP	FOLI
Thursday	SIMULATION LAB			ICP	AI		OR	MPMC-EIE	PCI
Friday	MPMC-EIE		ICP	PCI	ICP		AI	PCI	FOLI

S. CODE	SUBJECT		Hours Allotted	STAFF HANDLING
MG6T1	OR	OPERATION RESEARCH	5	Ms. Amudha
EC6T3	MPMC-EIE	MICROPROCESSOR AND MICROCONTROLLER	5	Dr. G. Padmanabha Sivakumar
EI6T6	FOLI	FIBER OPTICS AND LASER INSTRUMENTS	5	Mrs. K. Sugapriya
EI6T5	AI	ANALYTICAL INSTRUMENTATION	5	Mrs. K. Saraswathi
EI6T3	PCI	PROCESS CONTROL INSTRUMENTATION	5	Mrs. Janani. R
EI6T4	ICP	INDUSTRIAL CHEMICAL PROCESS	5	Dr. G. Padmanabha Sivakumar
EC6P7	MPMC-EIE LAB	MICROPROCESSOR AND MICROCONTROLLER LAB	3	Dr. G. Padmanabha Sivakumar
EI6P8	SIM LAB	SIMULATION LAB	3	Mrs. K. Saraswathi
EI6P9	ICP LAB	INDUSTRIAL CHEMICAL PROCESS LAB	3	Dr. T. Sundar

TIME TABLE INCHARGE **HOD/ EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

EVEN SEMESTER - TIME TABLE – 2019-20

Year: IV –EIE **Semester : VIII**

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday	AIRCRAFT	R & A	BMI	AUTO	LIB		R & A	BMI	AIRCRAFT
Tuesday	R & A	BMI	AIRCRAFT	R & A	BMI		BMI	AUTO	AUTO
Wednesday	AIRCRAFT		R & A	BMI	R & A		PROJECT PHASE -2		
Thursday	AUTO	BMI	SEM	AUTO	AIRCRAFT		PROJECT PHASE -2		
Friday	AIRCRAFT	AUTO		R & A	AIRCRAFT		PROJECT PHASE -2		

S. CODE	SUBJECT		Hours Allotted	STAFF HANDLING
EI8E3	AIRCRAFT	AIRCRAFT INSTRUMENTATION	8	Mrs. Janani. R
EI8T1	R&A	ROBOTICS AND AUTOMATION	7	Mrs. K. Saraswathi
EI8T2	BMI	BIOMEDICAL INSTRUMENTATION	7	Mr. S. S. Saravana Kumar
EI8EU	AUTO	AUTOMOTIVE INSTRUMENTATION	7	Dr. T. Lakshmibai
EI8Z2	PP -2	PROJECT PHASE 2	9	Mrs. K. Saraswathi

TIME TABLE INCHARGE **HOD/ EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

EVEN SEMESTER - TIME TABLE – 2019-20

Year: II –MECHATRONICS **Semester : IV**

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday	DE	SM	DE	TD	ME		TD	LIC	SAN
Tuesday	TD	IND. INS	SM	ME	LIC		DE	TD	LIB
Wednesday	ME	IND. INS	DE	LIC	SM		LIC LAB		
Thursday	SM	TD	FM & SM LAB				LIC	LIC	ME
Friday	IND. INS	DE	SM	IND. INS	ME		THERMAL LAB		

S. CODE	SUBJECT		Hours Allotted	STAFF HANDLING
	DE	DIGITAL ELECTRONICS	5	Mr. K. Sugapriya
	SM	STRENGTH OF MATERIALS	5	Dr. A. Tamilarasan
	TD	THERMODYNAMICS	5	Mr. P. Chenga Reddy
	ME	MATERIALS ENGINEERING	5	Dr. S.D. Sathish Kumar
	LIC	LINEAR INTEGRATED CIRCUITS	5	Dr. T. Lakshmibai
	IND. INS	INDUSTRIAL INSTRUMENTATION	4	Mr. G. Subramaniyam
	FM & SM LAB	FLIUD MECHANICS AND STRENGTH OF MATERIALS LAB	3	Dr. S. D. Sathish Kumar
	LIC LAB	LINEAR INTEGRATED CIRCUITS AND DEVICES LAB	3	Dr. T. Lakshmibai
	THERMAL LAB	THERMAL ENGINEERING LAB	3	Mr. R. Balakumar

TIME TABLE INCHARGE **HOD/ EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

EVEN SEMESTER - TIME TABLE – 2019-20

III YEAR MECHATRONICS

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday	OR	MPMC	CAD/CAM	FPS	MEMS		DME	OR	SANS
Tuesday	MEMS	FPS	OR	DME	DME		FPS LAB		
Wednesday	MPMC LAB			OR	MPMC		FPS	CAD/CAM	MEMS
Thursday	CAD/CAM LAB			CAD/CAM	MEMS		OR	MPMC	DME
Friday	MPMC		CAD/CAM	FPS	DME		MEMS	FPS	CAD/CAM

S. CODE	SUBJECT		Hours Allotted	STAFF HANDLING
MH6T1	OR	OPERATION RESEARCH	5	Ms. Amudha
EC6T3	MPMC	MICROPROCESSOR AND MICROCONTROLLER	5	Dr. G. Padmanabha Sivakumar
MR6T6	MEMS	MICROELECTRIC MECHANICAL SYSTEMS	5	Dr. T. Sundar
ME6T8	FPS	FLUID POWER SYSTEMS	5	Dr. S. Vijayabhaskar & Dr. K. Mohan
ME6T3	DME	DESIGN OF MACHINE ELEMENTS	5	Dr. R. Vinayagamoorthy
ME6T5	CAD/CAM	CAD/CAM	5	Mr. Chakaravarthy
EC6P7	MPMC LAB	MICROPROCESSOR AND MICROCONTROLLER LAB	3	Dr. G. Padmanabha Sivakumar
ME6P5	CAD/CAM LAB	CAD/CAM LAB	3	Dr. K. Mohan
ME6P9	FPS LAB	FLUID POWER SYSTEMS LAB	3	Dr. S. Vijayabhaskar

TIME TABLE INCHARGE **HOD/ EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

EVEN SEMESTER - TIME TABLE – 2019-20

Year: IV –MECHATRONICS **Semester : VIII**

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday	AIRCRAFT	AUTOTRONICS		POM	LIB		MACHINE VISION		AIRCRAFT
Tuesday	AUTOTRONICS		AIRCRAFT	POM			MACHINE VISION		SEM
Wednesday	AIRCRAFT		AUTOTRONICS		MACHINE VISION		PROJECT PHASE -2		
Thursday	MACHINE VISION		POM		AIRCRAFT		PROJECT PHASE -2		
Friday	AIRCRAFT	AUTOTRONICS		POM	AIRCRAFT		PROJECT PHASE -2		

S. CODE	SUBJECT		Hours Allotted	STAFF HANDLING
MH8EB	AIRCRAFT	AIRCRAFT INSTRUMENTATION	8	Mrs. Janani R
MH8T1	POM	PRINICIPLES OF MANAGEMENT	6	Dr. T. Sundar
MH8EH	AUTOTRONICS	AUTOTRONICS	8	Dr. S.D. Sathish Kumar
MH8T2	MACHINE VISION	MACHINE VISION	7	Mr. G. Harish
MH8Z2	PP -2	PROJECT PHASE 2	9	Mr. N. C. A. Boovarahan

TIME TABLE INCHARGE **HOD/ EIE**

Faculty Individual Time Table Odd Semester 2019-20

Staff Name: Mr.V.Swaminathan

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday				POM					
Tuesday									
Wednesday				POM					
Thursday							POM		
Friday									

Mrs. K. SARASWATHI

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday	CCP	PLC		PPI			PPI		CCP
Tuesday			CCP	OE			PPI		
Wednesday		PPI		PLC			PLC	PROJECT	
Thursday		PLC	CCP LAB & PLC LAB					CCP	
Friday	PLC			CCP				PROJECT	

Staff Name: Dr.T.Sundar

HOUR TIME	*1 9:10 to 10:00*	*2 10:00 to10: 50*	*3 10:50 to 11:40*	*4 11:50 to 12:40*	*5 12:40 to 1:30*	*LUNCH BREAK*	*6 2:20 to 3:10*	*7 3:10 to 4:00*	*8 4:00 to 4:50*
Monday		E-2	ADE LAB –CSE SECTION-2					ADE	
Tuesday		E-2	S&A		ADE				
Wednesday			ADE	S&A					
Thursday	E-2			S&A			ADE LAB –CSE SECTION-2		
Friday	E-2	S&A			E-2			ADE	

Staff Name: Mrs.Janani.R

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday			ACS						E-1-(VI)
Tuesday	E-1-(VI)	CS		ACS			VI LAB		
Wednesday		ACS	E-1-(VI)		CS		ACS	CS	
Thursday		ACS	CS				CS LAB		
Friday		E-1-(VI)	E &MP LAB SECTION -2 /BATCH 2						CS

Staff Name: Dr.T.Lakshmibai

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday	PED LAB						ADE LAB –CSE SECTION-5		
Tuesday	PED				S&A				PED
Wednesday	PED		S&A				PED		
Thursday							S&A		S&A
Friday	S&A		ADE LAB –CSE SECTION-5					PED	

Staff Name: Dr.G.P.Sivakumar

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday					ES			ES	
Tuesday	ADE				ES		ADE LAB –CSE SECTION-1		
Wednesday	ES		ADE LAB –CSE SECTION-1					ADE	
Thursday				ADE			E &MP LAB SECTION 1 - /BATCH 1		
Friday			ES				ADE		

Staff Name: Mr.S.S.Saravana Kumar

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday			ADE		SS		VLSI		
Tuesday	VLSI			SS				ADE	
Wednesday	ADE		VLSI				ADE LAB –CSE SECTION-4		
Thursday		SS	ADE LAB –CSE SECTION-4					ADE	VLSI
Friday		VLSI			SS			SS	

Staff Name: Mrs.K.Sugapriya

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday			R&A	ADE			E &MP LAB SECTION 3 - /BATCH 2		
Tuesday		R&A	DSP					ADE	
Wednesday				DSP	R&A		E &MP LAB SECTION 3 - /BATCH 1		
Thursday	ADE			DSP			R&A	R&A	
Friday		DSP					ADE		

Staff Name: N.C.A.Boovarahan

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday		ADE	EDC					ICT	
Tuesday	ICT		ADE LAB –CSE SECTION-3				EDC		
Wednesday	EDC		E &MP LAB SECTION 2 - /BATCH 1				ADE		
Thursday			ADE	ICT				EDC	
Friday	ADE		EDC		ICT		ADE LAB –CSE SECTION-3		

Staff Name: Mr.G.Subramaniyan

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday				MI			M&I LAB		
Tuesday	E &MP LAB SECTION 1 - /BATCH 2								
Wednesday				MI					
Thursday				MI					
Friday		MI							MI

Staff Name: Mrs.K.Komathy

HOUR TIME	***1 9:10 to 10:00***	***2 10:00 to10: 50***	***3 10:50 to 11:40***	***4 11:50 to 12:40***	***5 12:40 to 1:30***	***LUNCH BREAK***	***6 2:20 to 3:10***	***7 3:10 to 4:00***	***8 4:00 to 4:50***
Monday									
Tuesday	EDC LAB								
Wednesday									
Thursday									
Friday									

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering

LAB TIME TABLE Odd Semester-2019-20

HOUR TIME	1 9:10 - 10:00	2 10:00 - 10: 50	3 10:50 11:40	4 11:50 12:40	5 12:40 1:30	1.30-2.20	6 2:20 3:10	7 3:10 4:00	8 4:00 4:50
Monday	PED LAB **(III EIE & Mechatronics)** Mrs.T.Lakshmibai		ADE LAB –CSE SECTION-2 Mr.T.Sundar				ADE LAB –CSE SECTION-5 Mrs.T.Lakshmibai M&I LAB Mr.G.Subramaniyan		
Tuesday			E &MP LAB SECTION 1 - /BATCH Mr.G.Subramaniyan ADE LAB –CSE SECTION-3 Mr. N.C.A.Boovarahan EDC LAB Mrs.K.Komathy				VI LAB (IV EIE) Mrs.Janani.R ADE LAB –CSE SECTION-1 Mr.G.P.Sivakumar		
Wednesday			E &MP LAB SECTION 2 - /BATCH 1 N.C.A.Boovarahan ADE LAB –CSE SECTION-1 Mr.G.P.Sivakumar			**LUNCH**	E &MP LAB SECTION 3 - /BATCH 1 Mrs. K.Sugapriya ADE LAB –CSE SECTION-4 Mr. S.S.Saravana Kumar		
Thursday			CCP LAB & PLC LAB (IV EIE &Mechatronics) Mrs.K.Saraswathi				ADE LAB –CSE SECTION-2 Mr.T.Sundar CS LAB Mrs.Janani.R E &MP LAB SECTION 1 - /BATCH 1 Mr.G.P.Sivakumar		
Friday			ADE LAB –CSE SECTION-5 Mrs.T.Lakshmibai E &MP LAB SECTION -2 /BATCH 2 Mrs.Janani.R				ADE LAB –CSE SECTION-3 N.C.A.Boovarahan		

FACULTY INDIVIDUAL TIME TABLE EVEN SEMESTER 2019-20

Staff Name: Mr. SWAMINATHAN

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday				POM					
Tuesday									
Wednesday									
Thursday			POM						
Friday									

Staff Name:Mrs.K. SARASWATHI

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday		R&A	BEE		AI		R&A		
Tuesday	R&A	BEE		R&A	AI		BEE		
Wednesday			R&A		R&A				
Thursday	SIMULATION LAB			BEE	AI				
Friday		BEE		R&A			AI		

Staff Name:Mr.T. SUNDAR

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday	BEE			POM	MEMS			BEE	
Tuesday	MEMS	BEE		POM			ICP LAB		
Wednesday		BEE							MEMS
Thursday			POM		MEMS				
Friday		BEE		POM			MEMS		

Staff Name:JANANI. R

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday	AIRCRAFT		CSE LAB				PCI	MPMC	AIRCRAFT
Tuesday	MPMC		AIRCRAFT	PCI			CSE LAB		
Wednesday	AIRCRAFT						PCI	MPMC	
Thursday					AIRCRAFT		MPMC		PCI
Friday	AIRCRAFT			PCI	AIRCRAFT				

Staff Name:T. LAKSHMIBAI

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday		ECE-OE		AUTO				LIC	
Tuesday	ECE-OE				LIC				AUTO
Wednesday		ECE-OE		LIC			LIC LAB		
Thursday	AUTO	ECE-OE		AUTO			LIC		
Friday	ECE-OE	AUTO							

Staff Name:G. P. SIVA KUMAR

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday		MPMC-EIE	ICP	MPMC			CSE LAB		
Tuesday	MPMC		CSE LAB						
Wednesday	MPMC EIE - LAB				MPMC-EIE		MPMC	ICP	
Thursday		MPMC		ICP				MPMC-EIE	
Friday	MPMC-EIE		ICP		ICP				

Staff Name:S. S. SARAVANA KUMAR

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday		DSP	BMI				MPMC	BMI	
Tuesday	MPMC	BMI		DSP	BMI		BMI		
Wednesday		MPMC		BMI	DSP		CSE LAB		
Thursday	DSP	BMI	CSE LAB					MPMC	
Friday			DSP						

Staff Name:K. SUGAPRIYA

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday	DE		DE	FOLI			MPMC		
Tuesday	FOLI	FOLI					DE	MPMC	
Wednesday	MPMC		DE						FOLI
Thursday				MPMC			CSE LAB		
Friday		DE	CSE LAB						FOLI

Staff Name:N. C. A. BOOVARAHAN

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday		MPMC			POC			ES	
Tuesday			POC	ES			MPMC		
Wednesday	POC		CSE LAB					MPMC	
Thursday	MPMC		ES						POC
Friday	ES				POC		CSE LAB		

Staff Name: G. SUBRAMANIYAN

HOUR TIME	1 9:10 to 10:00	2 10:00 to10: 50	3 10:50 to 11:40	4 11:50 to 12:40	5 12:40 to 1:30	LUNCH BREAK	6 2:20 to 3:10	7 3:10 to 4:00	8 4:00 to 4:50
Monday									
Tuesday		IND. INS							
Wednesday		IND. INS							
Thursday			TRANS LAB						
Friday	IND. INS			IND. INS					

13.SEMINARS/WORKSHOPS/CONFERENCES/SYMPOSIUMS/TRAININGPROGRAMS ORGANIZED

DEPARTMENTAL ACTIVITIES

S.NO	Name of the Department	Programme Organized	Date
1	EIE & MECHATRONICS	Electric Vehicle Technology	26-08-19 to 30-08-19
2	EIE & MECHATRONICS	Research Oriented Project Work	24-02-20 to 28-02-20
3	EIE & MECHATRONICS	Industrial Automation using SCADA and DCS , Siemens Bangalore	16/05/2020
4	EIE & MECHATRONICS	Online Learning Tools Post Covid -19	29/05/2020
5	EIE & MECHATRONICS	Engineering Quiz on Sensors	18/06/2020

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	21/10/2019
2	III Year EIE& MECHACTRONICS Class committee meeting	21/10/2019
3	II Year EIE& MECHACTRONICS Class committee meeting	21/10/2019
4	I Year EIE& MECHACTRONICS Class committee meeting	21/10/2019
5	EIE& MECHACTRONICS Staff meeting	4/7/2019
6	EIE& MECHACTRONICS Staff meeting	9/9/2019
7	3 rd DC Meeting for Internal scholar (Mrs.Janani .R)	12/08/2019
8	Viva-Voce (Mr.T.Sundar)	19/07/2019
9	Viva-Voce (Mr.G.P.Sivakumar)	20/09/2019

RESEARCH COLLOQUIUM

S.NO	**NAME**	**DATE**	**TITLE**
1	G.P.SivaKumar	3/07/2019	Performance Enhancement of Class F Amplifier system using Fuzzy logic controller for Induction heating
2	E.Deenadayalan	18/10/2019	Vision Based PID Control for Industrial Process

14. PROJECT DETAILS

PROJECT PHASE – I

S. No	Register number	Name of the student	Title of the project	Project type	Name of the guide
1	11169G001	V.Gnanasagar	DESIGN AND IMPLEMENTATION OF A CONTROLLER FOR A AQUAPONICS SYSTEM	Internal	K Saraswathi
2	1169H001	S.Anjai			
3	11169G002	R.Yaminipriya	AUTO DIAGNOSTIC MEASURE ALERT SYSTEM	External	K Sugapriya
4	1169H009	R. Rakshith Vigneshwar			
5	11169H002	P Gayathri	AUGMENTED REALITY VIRTUAL KEYBOARD	External	T Sundar
6	11169H003	M Guhan	WEIGHT SORTING MACHINE	External	DR T Lakshmi Bai
7	11169H018	S Sarveshwaran			
8	11169H004	Shashanks Korde	ATTENDANCE MONITORING SYSTEM USING LABVIEW	Internal	R Janani
9	11169H005	K Vinod	PICK AND PLACE ROBOT USING ARDUINO	External	Dr T Lakshmi Bai
10	11169H006	Laxmana Sundaram K S S	COLOR SORTING MACHINE USINGARDUINO	External	R Janani
11	11169H010	Sivaramakrishnan . M			
12	11169H007	K P Manigandan	AUTOMATIC WATER BOTTLE USING PLC	External	K Saraswathi
13	11169H015	B Daniel Rajasekar			
14	11169H011	S Srinivasaraghavan	THE ULTIMATE WRITER BOT	External	N C A Boovarahan
15	11169H012	S Sushil	SMART ASRS [AUTOMATED	Internal	Dr T Sundar

16	11169H013	V Vijayaraghavan	STORAGE AND RETREVAL] INVENTORY USING AGV & IOT		
17	11169H014	B Harshavardhan	GESTURE CONTROL ROBOTIC ARM	External	S.S.Saravana Kumar
18	11169H019	M Sulthan			
19	11169H016	M Saketh Kumar	SIGN LANGUAGE DETECTION USING TENSORFLOW	External	Dr G P Sivakumar
20	11169H017	M Vivek			

ABSTRACTS (PHASE – I)

DESIGN AND IMPLEMENTATION OF CONTROLLER FOR AN AQUAPONICS SYSTEM

Name of the Student: **V. GNANASAGAR - 11169G001**
ANJAI S - 11169H001
Name of the Guide: **Mrs K. Saraswathi**

This project presents the design and implementation of a controller for an aquaponics system. Aquaponics is the combination of aquaculture and Hydroponics. In
aquaculture fish are grown in a controlled environment and in hydroponics the plants are grown in controlled environment by using external supply of nutrients. The combination of hydroponics and aquaculture is called as aquaponics, where the plants grow in controlled environment by using the nitrates converted from ammonia released by the fish waste. In this work we concentrate on controlling the parameters needed for the aquaponics system

GESTURE CONTROLLED ROBOTIC ARM

Name of the Student: **M SULTHAN - 11169H016**
B HARSHAVARDHAN - 11169H017

Name of the Guide: **Mr S S SARAVANA KUMAR**

ABSTRACT

Gesture Controlled robot which can be controlled by simple human gestures. The user just needs to wear a gesture device in which a sensor is included. The sensor will record the movement of hand in a specific direction which will result in the motion of the robot in the respective

directions. We can control using accelerometer sensors connected to a hand glove. The sensors are intended to replace the remote control that is generally used to run the car. It will allow user to control the forward, backward, leftward and rightward movements, while using the same accelerometer sensor to control the throttle of the car. Movement of car is controlled by the differential mechanism. The mechanism involves the rotation of both forth & rear wheels of left or right side to move in the anticlockwise direction and the other pair to rotate in the clockwise direction which makes. Robotic arm using flex sensor is proposed. The robotic arm is designed in such a way that it consists of four movable fingers, each with three linkages, an opposing thumb, a rotating wrist and an elbow. The robotic arm is made to imitate the human hand movements.

THE ULTIMATE WRITER BOT

Name of the student : S SRINIVASARAGHAVAN - 11169H011

Name of the Guide : N C A BOOVARAHAN

ABSTRACT

This project is a Computer Numerical Controlled machine which will write with a pen or similar device on paper or similar plane. The major Objective is to create a pen testing machine which will simulate hand-written texts. This machine is an automatic writing machine used for the writing any type of text and drawing any design on paper. This machine works working on 3 axis (X, Y, Z) based on a H-Bot mechanism which is a highly modified and improved Cartesian robot. This three-axis motion is given by stepper motors and servo motor. It can draw any given image with proper, well defined contours. This project is designed in such a way that it can be Mass Manufactured in industries. All the design are made in CAD and manufactured by using the design.

COLOR SORTING MACHINE USING ARDUINO

Name of the student : Laxmana Sundaram K S S 11169H006
Sivaramakrishnan . M 11169H010

Name of the Guide : Dr R Janani

Sorting Products Saver Difficult Industrial Process.Continuous Manual Manual sorting creates consistency issues.This Project Describes A Working Prototype designed for automatic sorting of objects based on the color. A TCS3200 sensor was used to detect the color of the product and ARDUINO was used to control the overall process. The whole setup was carried outon conveyor or controlled by a DCmotor. The identification of the color is based on the frequency analysis of the output of the TCS3200 sensor. The three colors used in this separation process are RED, BLUE and GREEN. Two servo motors are used for the separation process. The first

servo motor is used for the sorting of red color, and the second servo motor is for the sorting of blue color, the third color i.e.green color is separated by letting the color through the end of the conveyor. All the color objects that are sorted are collected in an edina box placed at each end sof separator. This method of sorting can be employed in small and medium scale industries for precise sorting of products based on their color. The experimental results promise that the prototype will fulfi**l** the needs for higher production and precise quality in the field of automation.

SIGN LANGUAGE DETECTION USING TENSORFLOW

Name of the Student : M Saketh Kumar 11169H016
M Vivek 11169H017

Name of the guide : Dr G P Sivakumar

ABSTRACT

In this project, we are training a deep learning model to recognize the signs made by the disabled person and present it as a text and voice output. In order to develop the deep learning model, (TensorFlow +Keras) framework on python, along with OpenCV library to recognize and classify the images, convert it into histograms containing hexadecimal data and matching it with the classification report from the datasets and presenting an understandable output.

SMART ASRS [AUTOMATED STORAGE AND RETREVAL] INVENTORY USING AGV & IOT

Name of the Student : V VIJAYARAGHAVAN 11169H011
S SUSHIL 11169H012

Name of the Guide : Dr T SUNDAR

ABSTRACT

The global increase in consumption of what was once regarded luxury products such as automobiles and electronics have become essential daily necessities and thus have been pushing for more efficient and faster production facilities. This trend has given rise to technologies specifically for automation of production lines and inventory allocation. The problem however is that many on the job practices such as stock taking and delivery and supplies to assembly lines cannot be easily automated. Thus in this project we aim to partially automize the inventory management and supply to assembly points using a combination of storage and warehousing robot, through technologies such as AGV (Automated Guided Vehicle) and IoT (Internet of Things).

AUTO DIAGNOSTIC MEASURE ALERT SYSTEM

Name of the Student: **R.Yamini priya - 11169G002**
R.Rakshith vigneshvar - 11169H009

Name of the Guide: **Mrs.K.Sugapriya**

ABSTRACT

Heart rate is very vital health parameter that is directly related to the soundness of the human cardiovascular system. Heart rate is the number of times the heart beats per minute reflects different physiological conditions such as biological workload stress at work and concentration on tasks.The fluctuation of blood can be detected through an optical sensing mechanism placed around the fingertip. The signal can be amplified and it sent to arduino with the help of serial port communication With the help of processing software heart rate monitoring and counting is performed.

ATTENDANCE MONITORING SYSTEM USING LABVIEW

Name of the Student : Shashank S Korde 11169H004

Name of the Guide : Dr R Janani

ABSTRACT

The main objective of this project is to design and implement RFID based students attendance monitoring system with the help of Arduino and labview. The fingerprint of the student is obtained using Fingerprint scanner and the data is compared with the student details already available in the database. If the fingerprint matches the student is marked as present for the hour of class else he will be declared as absent. Initially the details of the students are stored in the file along with the registered number and course details and his/her photo. The student is allowed to give two fingers (thumb and forefinger prints) of both the hands to get stored in the database. Similarly the student can try for three times if the finger print doesn't match with the one available in the database.

This type can avoid false entry of the student attendance and weekly attendance report can be taken on hourly basis. Once the student failed to attend the class an immediate intimation message is sent to the parents as well as to himself/herself when this is extended with IoT.

WEIGHT SORTING MACHINE

Naame of the student : M.GUHAN - 11169H003

S.SARVESWARAN - 11169H018

ABSTRACT

Sorting Process generally involves separating the materials based on a specific feature. Our project deals with sorting the materials based on weight.

In a small-scale food processing industry, it is always a time consuming and a tedious process to sort, grade and feed the materials. Agriculture and Agro based Industries play an important role in the economic development of the country.

The manual method of sorting and feeding produces errors and is time consuming. To lessen the errors and to counter the shortcomings of manual sorting, we are fabricating a weight based sorting and feeding system for materials

The material we have chosen for our project is apple. The apples have been chosen as our material because our main focus is towards the agriculture and agro based industries.

To fabricate the weight based sorting which has a feeding system, conveyors, load cell, servo motors, DC motors and an Arduino kit. The Arduino kit has been used to reduce the complexity of the system and the use of microcontrollers helps us to reduce errors and labor in case of system failure. The sorted fruits are collected in a collecting box according to the range of weights. The system is completely reliable because of the usage of microcontrollers which are robust and safe.

PROJECT PHASE – II

S. No	Register number	Name of the student	Title of the project	Project Type	Name Of The Guide
1	11169G001	V.Gnanasagar	DESIGN AND IMPLEMENTATION OF A CONTROLLER FOR AN RECIRCULATING AQUAPONICS SYSTEM USING IoT	Internal	K Saraswathi
2	1169H001	S.Anjai			
3	11169G002	R.Yaminipriya	ADVANCED AUTOMATIC SELF-CAR PARKING USING ARDUINO	External	K Sugapriya
4	1169H009	R. Rakshith Vigneshwar			
5	11169H002	P Gayathri	SMART BRIDGE MONTIORING USING INTERNET OF THINGS	External	Dr T Sundar
6	11169H003	M Guhan	INDUSTRIAL AUTOMATION USING PLC	External	Dr T Lakshmibai
7	11169H007	K P Manigandan			
8	11169H004	Shashanks Korde	Automatic Floor Cleaner	External	R Janani
9	11169H005	K Vinod	"AUTOMATIC COLOR SORTING BY PLAYBACK ROBOT"	External	Dr T Lakshmibai
10	11169H006	Laxmana Sundaram K S			
11	11169H010	Sivaramakrishnan . M	AUTOMATION OF DRYER CONTROLS OF INSTRUMENT AIR COMPRESSOR USING PLC	External	R Janani
12	11169H018	S Sarveshwaran			
13	11169H015	B Daniel Rajasekar			

14	11169H011	S Srinivasaraghavan	IOT INDUSTRIAL SERVICE REQUEST SYSTEM	Exteral	N C A Boovarahan
15	11169H012	S Sushil	INVENTORY MANAGEMENT USING SMART IOT BASED ASRS (Automated Storage and Retrieval System) AND WIFI GUIDED VEHICLE	External	Dr T Sundar
16	11169H013	V Vijayaraghavan			
17	11169H014	B Harshavardhan	SMART ENERGY METER USING GSM	External	S S Saravana Kumar
18	11169H019	M Sulthan			
19	11169H016	M Saketh Kumar	COLOR RESPONSIVE ROBOCAM USING IMAGE PROCESSING	External	Dr G P Sivakumar
20	11169H017	M Vivek	INDUSTRIAL AUTOMATION USING IBM WATSON IOT CORE	External	Dr G P Sivakumar

ABSTRACTS (PHASE – II)

IOT INDUSTRIAL SERVICE REQUEST SYSTEM

Name of the Student: **S. Srinivasa Raghavan - 11169H011**

Name of the Guide: **Mr. N.C.A. Boovarahan**

ABSTRACT

This project is a cost effective and elegant system to register service requests for industries that contain tables, in this case for tailoring Industries. Every table will have this device with buttons, when pressed would send a request to the service to the floor technician's computer so that a lot of time and effort is saved, accelerating the whole process. The whole system uses *Internet of Things* technology for the communication, namely MQTT protocol.

INDUSTRIAL AUTOMATION USING PLC

Name of the Student: **M.GUHAN - 11169H003**

K.P.MANIGANDAN - 11169H007

Name of the Guide: **Dr.T.Lakshmibai**

ABSTRACT

Our project "Industrial Automation using PLC" is a combination of the accessibility of batch processing of the machines and the temperature control system In the machine accessibility system the machine operators are allowed to work on the machine only when all the workers are present on the batch process and entered in the working place and also the attendance was updated immediately to the supervisor or manager The temperature control system controls the room temperature by use of the temperature sensor and exhaust fan.

SMART BRIDGE MONITORING USING INTERNET OF THINGS

Name of the Student: **GAYATHRI.P - 11169H002**

Name of the Guide: **Dr. T.SUNDAR**

ABSTRACT

Bridge safety is important for the safety of vehicles and pedestrians. This paper presents a study on the development of a low-power wireless acceleration sensor and deployment of the sensors on a wireless gateway and cloud platform following the Internet of Things (IoT) protocols for bridge monitoring. Field evaluations indicated that the developed IoT bridge monitoring system could achieve the functions of real-time data acquisition, transmission, storage and analytical processing to synthesize safety information of the bridge.

Bridge is one of the most important transportation infrastructures for social and economic activities of a country which has long rivers. Bridge monitoring system provides previous indications to us where we can easily save too many lives and we can avoid the loss. Bridge Monitoring System is a tool to improve the safety and maintainability of bridges. Bridge Monitoring System provides real time and accurate information about the structural health condition. It is a process of nondestructive evaluations to detect location and extent of damage, calculate the remaining life, and predict upcoming accidents.

Bridges may get collapsed or tilted due to flooding or some concrete problem, natural calamities. So there is a need to design a system which will continuously monitor the condition of bridges. It

is useful for public safety and reduction in human losses. Such a system will help in disaster management and recovery. However, lack of information about the damage site can impede information management at the rescue center and rescue operation, resulting in poor rescue efficiency or even preventable casualties.
IoT-based bridge safety monitoring system is developed using the WSN Technology. This system is composed of: Monitoring devices installed in the bridge environment, communication devices connecting the bridge monitoring devices and the cloud based server, a dynamic database that stores bridge condition data, cloud based server calculates and analyzes data transmitted from the monitoring devices. This system can monitor and analyze in real time the condition of a bridge and its environment, including the water levels and other safety conditions.

ADVANCED AUTOMATIC SELF-CAR PARKING USING ARDUINO

Name of the Student: **R.Yamini priya - 11169G002**
R.Rakshith vigneshvar - 11169H009

Name of the Guide: **Mrs.K.Sugapriya**

ABSTRACT

Car parking is a major problem in urban areas in both developed and developing countries. The rapid increase of car ownership, many cities are lacking car parking areas. This imbalance is partially due to ineffective land use planning and miscalculations of space requirements during the first stage of planning. Shortage of parking space, high parking tariffs, and traffic congestion due to visitors in search of a parking place are only a few examples of everyday parking.

DESIGN AND IMPLEMENTATION OF A CONTROLLER FOR A RECIRCULATING AQUAPONICS SYSTEM USING IoT

Name of the Student: **V. Gnanasagar - 11169G001,**
Anjay.s - 11169H001
Name of the Guide: **Mrs K. SARASWATHI**

ABSTRACT:

This project represents the design and implementation of a controller for a Recirculating Aquaponics System using IoT. In the state of increasing population, providing food for everyone became a bigger task, and there is drastic deforestation for transforming that land into cropping fields, to assess this problem there are many modern vertical farming methods. But among all methods, aquaponics is the best and sustainable way of growing food. Aquaponics is a combination of aquaculture and hydroponics. In aquaculture fish are grown in a controlled environment and in hydroponics the plants are grown in a controlled environment by using an external supply of nutrients. The combination of hydroponics and aquaculture is called aquaponics, where the plants grow in a controlled environment by using the nitrates converted

from ammonia released by the fish waste. In this work, we concentrate on controlling the parameters needed for the aquaponics system. The parameters like Temperature, Humidity, Photoperiod, Moisture of the grow Medium and these parameters are uploaded and monitored in the Thingspeak Cloud.

AUTOMATION OF DRYER CONTROLS OF INSTRUMENT AIR COMPRESSOR USING PLC

Name of the Student: **M.SIVARAMAKRISHNAN - 11169H010**
B.DANIELRAJASEKAR - 11169H015
S.SARVESWARAN- 11169H018
Name of the Guide: **Mrs. R. JANANI**

ABSTRACT

Our project titled "**AUTOMATION OF DRYER CONTROLS OF INSTRUMENT AIR COMPRESSOR**" aims to study the instrument air dryer system. It is an existing system which runs in electromagnetic relay logic. It has less reliability and also it has effects due to ageing. Our area of project is THERMAL POWER STATION I EXPANSION. The TPS I Expansion has 2X210 MW boilers which produce the steam to run the turbine. These units are controlled by a Microprocessor based digital control and Management information system.

For the generation of power in the power plant, instrument air plays a vital role. This instrument air is used to open or close a valve in the Pneumatic system. This instrument air should be dry enough to operate the valves.

Here the compressed air is filtered using a fabricated filter and sent into the dryer from bottom to top through the four way valve. The air is dried using the desiccant called activated alumina. The dried air is sent to the DAC cooler and the air outlet from the cooler is used as an instrument air. On the other side a small amount of compressed air is extracted and heated by a heater. This heated air is sent into the regenerator cylinder through the four-way valve and the air flows from top to bottom. The drying process takes place for 8 hours and the regeneration takes place for 4 hours. After the completion of this time limit, then the dryer and regenerator tower are interchanged. Now the dryer acts as a regenerator and the regenerator acts as a dryer. This process also runs for 8 and 4 hours for the dryer and regenerator respectively. This process is implemented using "PROGRAMMABLE LOGIC CONTROLLER".

INDUSTRIAL AUTOMATION USING IBM WATSON IOT CORE

Name of the Student: **MANNAVA VIVEK - 11169H017**

Name of the Guide: **Dr. G. PADMANABHA SIVAKUMAR**

ABSTRACT

With the above-mentioned shortcomings, the operation of the individual machines becomes a hassle. Also, in times of an emergency or an accident, it becomes difficult to detect the particular machine responsible for the alert.

To help overcome these shortcomings, this project, to automate the industry/factory floor is being proposed. This project is a system designed to monitor the sensor data and other parameters from different individual systems and display it on a single monitor used by a single operator.
This allows to greatly reducing the workforce that is generally employed for this purpose on a factory floor. Also, this allows one user to monitor all the parameters of all the machinery from one location, and this helps in better decision making in case of an emergency.

AUTOMATIC FLOOR CLEANER

STUDENT NAME : SHASHANK S KORDE 11169H004

GUIDE NAME : MRS R JANANI

ABSTRACT

Automatic floor cleaner is a system that enables cleaning of the floor by the help of highly stabilized and rapidly functionalized electronic and mechanical control system. Current project work targets to use automatic floor cleaner for large floor in house-hold purposes and office floors. The cleaning purpose is specifically carried out by continuous relative motion between a scrubber and the floor surface. During the cleaning and moving operation of vehicle a propulsion mechanism such as driven wheels and guide wheels for the dry tracking on the floor surface to be cleaned, suction of water is carried out by vacuum pump, scrubbing action is done by the scrubber directing water towards rear end. Preferably, a sweeper mechanism is mounted on the body forwarded by propulsion mechanism and operated with such control system for advance sweeping of a debris-laden floor surface. A PID controller is used to govern the motion of system which takes the input from sensor circuit and feeds it back to microcontroller which gives rise to the simulation of wheel in a synchronized manner. The new automatic floor cleaner will save huge cost of labor in future. The basic advantage of this product is that it will be cost effective and no human control is needed. Once put in on mode it will clean the whole room without any omission of surface

INVENTORY MANAGEMENT USING SMART IOT BASED ASRS (Automated Storage and Retrieval System) AND WIFI GUIDED VEHICLE

Student Name : S Sushil 11169H012

V Vijayaraghavan 11169H013

GUIDE NAME : DR T SUNDAR

ABSTRACT

The global increase in consumption of products such as automobiles and electronics have been pushing for more efficient and faster production facilities. This trend has given rise to technologies specifically for automation of production lines and inventory allocation. The problem however is that many on the job practices such as stock taking upon delivery and

supplies to assembly lines cannot being easily automated. Thus we aim to partially automate the management of inventories and storage and retrieval of materials from assembly stations using a combination of automated guided vehicle and IoT technology.

COLOR RESPONSIVE ROBOCAM USING IMAGE PROCESSING

Name of the Student: **M Saketh Kumar - 11169H016**

Name of the Guide: **Dr. G. PADMANABHA SIVAKUMAR**

ABSTRACT

Color detection of an object is one of the most efficiently used methods for sensing and following of an object. This process is done using image processing. This method employs the detection of moving objects based on RGB color space and decides the action based on the color detected. A digital camera is used for image acquisition and image processing to detect the color, whereas a microcontroller based robot is used for performing the assigned task. In certain places, where human involvement in any work is risky, the use of such robots is feasible. The basic purpose of building this robot is to follow the appropriate object or instruction and to detect any immediate threat that the environment might pose. In order to develop the model , (x-bee) wireless module, along with Arduino module and image processing to recognize and classify the images, convert it into histograms containing hexadecimal data and matching it with the classification report from the datasets and presenting an understandable output

AUTOMATIC COLOR SORTING BY PLAYBACK ROBOT

Name of the Student: **LAXMANASUNDARAM K S - 11169H006,**
K VINOD - 11169H005

Name of the Guide: **DR T LAKSHMIBAI**

ABSTRACT

We have designed and developed a robotic system comprises of color object detection and sorting them accordingly. The three colors objects viz. Red, Green and Blue, are identified by the sensor and separate using robotic arms. Here we use TCS3200 programmable module converter technology to detect different colored objects. Now these types of robotics systems are most widely used in different industrial work where automated and self-intelligence is highly recommended.

15.PUBLICATIONS

JOURNAL

S.NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	JOURNAL DETAILS	INDEXING
1	Janani R Assistant Professor	Patient Pulse Rate Monitoring System Using LabVIEW	Recent Advances in Mechanical Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore	Scopus
2	Janani R Assistant Professor	Modeling and Control of Tray Temperature along with Column Pressure in a Pilot Plant Distillation Column	IEEE Digital Explore	Scopus
3	T.Sundar Assistant Professor	Design of Interleaved Buck Boost Converter with Proportional Integral Derivative controller	International Journal of Scientific Research in Engineering and Management, Volume 4, Issue 4, 2020.	UGC
4	T. Lakshmibai Assistant Professor	Implementation Of Health Monitoring System Using RF ID	International Journal of Scientific Research in Engineering and Management (IJSREM)	
5	K.Sugapriya Assistant Professor	DESIGN OF DOUBLE SQUARE ARRAY MICROSTRIP ANTENNA FOR WIRELESS COMMUNICATION	International Journal of Innovation In Engineering Research & Management	
6	T.SUNDAR Assistant Professor	Power Generation by Solar Energy Based with Improved Controller of Proportional Resonance	International Journal for Scientific Research & Development, Vol. 8, Issue 3, ISSN (online): 2321-0613, 2020.	Google Scholar, Imfact Factor - 4.396
7	K.SARASWATHI Assistant Professor	A Review Paper on Electricity Generation from Solar Energy	International Journal of Scientific Development and Research(IJSDR)	Google Scholar, Imfact Factor - 5.47
8	K.SARASWATHI Assistant Professor	A Smart IoT and SCADA based Architecture for Oil and Gas Industry	International Journal of Scientific Research in Engineering and Management (IJSREM)	Google Scholar, Imfact Factor - 4.106
9	G.Padmanabha Sivakumar Assistant Professor	Color Responsive Robocam Using Image Processing	International Journal of Research Publication and Reviews	Google Scholar, Imfact Factor - 5.536
10	G.Padmanabha Sivakumar Assistant Professor	Smart Industries Using the Internet of Things	International Journal of Research Publication and Reviews	Google Scholar, Imfact Factor - 5.536
11	T. Lakshmibai Assistant Professor	A Novel Approach to Accident Detection System using GSM	International Journal for Scientific Research &	Google Scholar,

			Development| Vol. 8, Issue 3, 2020 | ISSN (online): 2321-0613	Impact Factor - 4.396
12	S. S. Saravana Kumar Assistant Professor	ASRS Guided Vehicle based on Inventory Management Using Smart IOT	International Journal of Research Publication and Reviews	Google Scholar, Imfact Factor - 5.536
13	S. S. Saravana Kumar Assistant Professor	Multihop Cellular Network Using OFDMA – A Survey	International Journal of Research Publication and Reviews	Google Scholar, Imfact Factor - 5.536
14	N C A Boovarahan Assistant Professor	Adaptive Sub-Channel Algorithm Based Spectrum Allocation in MC-CDMA Systems	International Journal of Research Publication and Reviews	Google Scholar, Imfact Factor - 5.536
15	N C A Boovarahan Assistant Professor	A Survey for Improvisation MC-CDMA Systems to Massive MIMO Systems	International Journal of Research Publication and Reviews	Google Scholar, Imfact Factor - 5.536

NATIONAL CONFERENCE

S.NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	CONFERENCE DETAILS
1	Janani R Assistant Professor	Simulation and Design of Various PI Controller for a Non-Interacting Systems	CONCEPT 2020, Kongu Engineering College
2	Janani R Assistant Professor	Study on control actions in a recirculating aquaponics system", in AIP Conference Proceedings	CONCEPT 2020, Kongu Engineering College

INTERNATIONAL CONFERENCE

S.NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	CONFERENCE DETAILS
1	T. Lakshmibai Assistant Professor	Design of Secure Wireless Health Care System using Labview	29th and 30th May2020 (IVCNBS-2020) Department of Nanotechnology, Noorul Islam Centre for Higher Education Kumaracoil, Tamilnadu & Xcellogen Biotech Pvt Ltd., Nagarkoil.

16.PROFILE OF DEPARTMENT LIBRARY

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

18.	B114273	Digital Signal Processing
19.	B114277	Biomedical Instrumentation
20.	B114281	Control Systems Engineering
21.	B114282	Sensors and Transducers
22.	B114284	Transducers and Instrumentation
23.	B114287	Programmable Logic Controllers
24.	B114292	Power Electronics
25.	B114298	Industrial Instrumentation and Control
26.	B114303	Biomedical Instrumentation and Measurements
27.	B114304	Digital Instrumentation
28.	B114308	Linear Integrated Circuits
29.	B114315	Industrial Instrumentation
30.	B114317	Digital Control Systems
31.	B114322	Process Control : Modeling, Design and Simulation
32.	B114328	Control System Design
33.	B96611	Control Systems
34.	B110741	Elements of Electronic Instrumentation and Measurement
35.	B110754	Modern Electronic Instrumentation and Measurement Techniques
36.	B111206	Principles of Industrial Instrumentation
37.	B111327	Matlab Demystified: Basic Concepts and Applications
38.	B61537	Applied Electronics-Vol. 1:Electronic Devices and Circuits
39.	B6902	Digital Logic and Computer Design
40.	B105529	Digital Electronics: An Introduction to Theory and Practice
41.	B103935	Modern Control Engineering
42.	B58919	Power Electronics

43.	B62316	Course In Electrical ,Electronic Measurements And Instrumentation
44.	B55219	Digital Signal Processing: Principles, Algorithms and Applications
45.	B61055	Elements of Management
46.	B62328	Instrumentation Measurement and Analysis
47.	B64043	Direct Current Machines
48.	B65174	Control Systems: Principles and Design
49.	B61428	Principles of Management
50.	B40440	Signals and Systems
51.	B56749	Solid State Electronic Devices
52.	B63765	Handbook of Biomedical Instrumentation
53.	B96622	Microprocessors and Microcontrollers
54.	B100556	Microcontroller & Applications
55.	B66386	Digital Signal Processing: A Computer Based Approach
56.	B57364	Text Book Of Electrical Technology- Vol.3: Transmission , Distribution and Utilization
57.	B94387	Signals and Systems: Analysis and Using Transform Methods and Matlab
58.	B7024	Microprocessor Architecture Programming and Applications with the 8085
59.	B6201	Circuit Theory : Analysis and Synthesis
60.	B103655	Microprocessors Theory and Applications : Intel and Motorola
61.	B102774	An Embedded Software Primer
62.	B100237	Transformers and Induction Machines
63.	B94243	Verilog HDL: A Guide to Digital Design and Synthesis
64.	B98544	Course in Mechanical Measurements and Instrumentation
65.	B113624	Microprocessor and Microcontroller

66.	B114294	Chemical Process Control: An Introduction to Theory and Practice
67.	EIE - 1	Advanced Control Theory
68.	115980	Circuit & Networks : Analysis & Synthesis
69.	115982	Engineering Ethics : Includes Human Values
70.	115986	Perry's Chemical Engineers' Handbook (Reference Document)
71.	115987	Fundamentals of Digital Image Processing
72.	115989	Handbook of Analytical Instruments
73.	115997	Digital Electronics
74.	B57318	Electronic Devices and Circuits: Applied Electronics. Vol 1
75.	B58677	Microelectronics
76.	B60332	Electronic Communications
77.	B66513	Digital Signal Processing
78.	B67480	Digital Instrumentation
79.	B67841	Neural Engineering: Computation, Representation and Dynamics in Neurobiological Systems
80.	B95139	Measurement & Instrumentation Principles
81.	B97252	Integrated Electronics : An Analog and Digital Circuits and Systems
82.	B97275	Automatic Control Systems
83.	B97578	Digital Signal Processing : A Computer Based Approach
84.	B97885	Higher Engineering Mathematics
85.	B98868	Neural Networks : A Comprehensive Foundation
86.	B100569	Microprocessor Architecture, Programming and Applications with The 8085
87.	B103793	Electronic Instrumentation
88.	B105705	Electronic Circuits : Discrete & Integrated
89.	B109081	Neural Networks for Pattern Recognition

90.	B111571	Introduction to Digital Signal Processing
91.	B113352	Let Us C
92.	B113795	Linear Integrated Circuits
93.	B114756	Fuzzy sets & Fuzzy Logic
94.	B118186	Embedded Systems Design : An Introduction to Processes, Tools & Techniques
95.	B118200	Industrial Instrumentation
96.	B118224	Programming in Matlab For Engineers
97.	B118245	Instrumentation & Control
98.	B118272	Electrical Measurements & Measuring Instruments
99.	B118293	Biomedical Instrumentation
100.	B118302	Computer Control of Process
101.	B118312	Discrete – Time Control Systems
102.	B118314	Gate 2012 : Instrumentation Engineering
103.	EIE – 2	Sweep Through Your Interviews by G.Vidya Shankar, Published by New Century Book House (P) Ltd., Chennai.
104.	B118502	Modern VLSI Design
105.	B118998	Robotic Engineering: An Integrated Approach
106.	B118999	Transducer Engineering
107.	B119001	Digital Electronics: Principles & Applications
108.	B119004	Introduction to Robotics
109.	B119005	Matlab & its Applications in Engineering
110.	B119011	Elements of Robotics Systems
111.	B119012	Microprocessors & Microcontrollers: Architecture, Programming & Interfacing Using 8085,8086,8051
112.	B119016	Signals & Systems

113.	B119021	Principles of Nano- Optics
114.	B119402	Microprocessor 8086 Programming & Interfacing
115.	B119426	Advanced Microprocessor
116.	B119462	Signals & Systems
117.	B119707	Microcontrollers: Principles & Applications
118.	B119718	Problems & Solutions of Control Systems: With Essential Theory
119.	B119721	Electric Circuit Theory
120.	B119726	Microcontrollers Architecture, Programming, Interfacing and System Design
121.	B119730	Microcontrollers & Applications
122.	B119737	Mastering Matlab – 7
123.	B119945	Industrial Robotics: Technology, Programming
124.	B119947	Nano & Micro materials
125.	B119948	Theory of Applied Robotics: Kinematics, Dynamics Control
126.	B119950	Aircraft Instruments: Principles & Applications
127.	B119954	Aircraft Systems
128.	B119955	Aircraft Safety: Accident Investigations Analysis & Applications
129.	B119962	Programmable Logic Control: Principles & Applications
130.	B119964	Process Control: Concepts, Dynamics & Applications
131.	B119967	Robotics: Control, Sensing, Vision & Intelligence
132.	B119972	Power Plant Instrumentation
133.	B119974	Robotics Technology & Flexible Automation
134.	B119975	VLSI Technology
135.	B120252	Foundations of Mems
136.	B120256	Robotics

137.	B120339	Digital Electronics
138.	EIE – 3	Gate – IE
139.	B61722	Drydens Outline of Chemical Technology
140.	B108471	8051 Microcontroller
141.	B110757	Process Control
142.	B113505	Electronic Communications Systems: Fundamentals Through Advanced
143.	B114267	Process Control Engineering
144.	B119395	Fundamentals of Neural Networks: Architectures, Algorithms, & Applications
145.	B123641	Analytical Instruments
146.	B123671	Fundamentals of Industrial Instrumentation & Process Control
147.	B123715	Virtual Instrumentation Using Labview: Principles & Practices of Graphical Programming
148.	B123825	Digital Signal Processing
149.	B125704	Virtual Instrumentation Using Labview
150.	B126553	Principles of Communication
151.	EIE - 4	Automatic Process Control (ECKMAN)
152.	EIE - 5	Elements of Fuels, Furnaces & Refractories (O.P Gupta)
153.	EIE - 6	Process Control (Harriot)
154.	EIE – 7	Process Systems Analysis and Control (COUGHANOWR)
155.	EIE - 8	Unit Operations Of Chemical Engineering (Mccabe, Smith, Harriott)
156.	EIE – 9	Computer Control Process (Shanthi Sasidharan)
157.	EIE -10	Programmable Logic and Distributed Control Systems
158.	130134	Fundamentals Of Micro Fabrication: The Science of Miniaturization (Madou, Marc)

159.	123892	Mems & Microsystems Design & Manufacture (Hsu, Tai-Ran)
160.	103806	MEMS (Mahalik, Nitaigur Premchand)
161.	117973	Foundation of Mems (Liu, Chang)
162.	B52231	Text Book of Electrical Technology – Vol.2 AC And DC Machines
163.	B55325	Fundamentals of Electrical Drives
164.	B56508	VLSI Design
165.	B66502	Thyristorised Power Controllers
166.	B67483	Electrical Machines: Dc Machines, AC Machines & Polyphase Circuits
167.	B100167	Power Electronics: Circuits, Devices and Applications
168.	B113802	Electronics & Microprocessors
169.	B117124	Electronics Devices & Circuits
170.	B119420	Analog & Digital Communication
171.	B120322	Microprocessors & Microcontrollers
172.	B122695	Digital Communications
173.	B123931	Principles of Communication
174.	B128828	CMOS VLSI Design: Circuits & Systems Perspective
175.	B130394	Analog & Digital Communication
176.	B134285	First Course on Electrical Drives
177.	B135945	Digital Signal Processing

17. LABORATORIES AND EQUIPMENTS

ELECTRONICS LAB

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

ELECTRONICS LAB

YEAR OF PURCHASE: 2010-2011

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

YEAR OF PURCHASE: 2011-2012

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

YEAR OF PURCHASE: 2012-2013

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

YEAR OF PURCHASE: 2013-2014

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

Lab In charge: 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

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(ITBO27CE)	1	6245.66
7	PH Measurement(VMET02)	1	8021.08
8	Conductivity Measurement Trainer(VMET05)	1	53305.75
9	Strain Measurement Trainer(ITB017CE)	1	9074.63
10	Discharge Coefficient Of Orifice Plate (VFMT03)	1	35289.76
11	Discharge Coefficient Of Venturi Meter (VFMT03A)	1	40333.66
12	Level Measurement Trainer(VLMT02)	1	70571.47
13	Speed Measurement By Stroboscope(strobometer)	1	40267.66
14	Torque Measurement Trainer(ITB013CE)	1	13684.32
15.	Digital Multimeter, Model No 19	8	11,232.00
16.	Energy Meter	1	720.00
17.	Multi Range Wattmeter	2	5000.00
18.	AC Ammeter (10)Amps	2	900.00
19.	AC Voltmeter	2	900.00
20.	Load 10 Holder Lighting Lamp Load In Wheeled Mesh Enclosure	1	6000.00
TOTAL			3,62,161.00

TRANSDUCER AND INDUSTRIAL INSTRUMENTS LAB

YEAR OF PURCHASE 2011-2012

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

YEAR OF PURCHASE 2013-2014

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

Lab Incharge: Mrs.T.Lakshmibai

Lab Instructor: Mr.K.Vinayagamoorthy

18.GUEST LECTURES AND VISITING FACULTY DETAILS

S.No.	Name of the expert & Address	Topic	Date
1	Mr.R.Kumarasamy,Manager,Pantech Prolabs India Pvt Ltd,Chennai	Sensor Automation and Industrial IOT	22.08.2019
2	Mr.L.Venkatesan,Asst.Manager, Prolific,Chennai	Industrial Automation and Embedded system	03.09.2019
3	Mr.V.Manikandan, Senior Engineer, Hydranautics, Nitto Group Company, Chennai	Advanced Technology in Water Treatment	16.09.19

19.STUDENTACTIVITIES

IN-PLANT TRAINING

S.No.	Register No.	Name of the student	Duration	Place / Industry
1	11169H012	Sushil.s	12/10/2019 To 20/10/2019	CIIC,IMPENSUS Electronics Pvt Ltd,Chennai
2	11169H013	Vijayaraghavan Venkatraman	12/10/2019 To 20/10/2019	CIIC,IMPENSUS Electronics Pvt Ltd,Chennai

INTERNSHIP

S.No.	Register No.	Name of the student	Duration	Place / Industry
1	11189H008	Pillalamarri Srinivasa Sanjay (III Yr Mechatronics)	21/12/2019 To 21/01/2020	UNI SCIENT ENGINEERING Pvt Ltd.,
2	11179H002	Dinesh Kumar.S	01/07/2019 To 06/07/2019	Valeo Cluth Pvt Ltd,Chennai
3	11179H013	Tarun Kumar.S	01/07/2019 To 06/07/2019	Valeo Cluth Pvt Ltd,Chennai
4	11179G003	Mohammad Monsoor Aslam .M	01/07/2019 To 06/07/2019	Valeo Cluth Pvt Ltd,Chennai

INDUSTRIAL VISITS

S.No.	Department	Name of the Company	Date
1	EIE&Mechatronics	Doddabetta Tea Factory,OOTY	12/10/2019
2	EIE&Mechatronics	Anna Aluminium Pvt Ltd, Aluva,Kerala	12/10/2019

Seminars / Conferences / Workshop / Training attended by the Students

Sl. No.	Name of the students	Nature of the events	Place	Date
1	Srinivasaraghavan.S	Third Prize-National Level Technical Hackathon	Dept.of IT, SaiRam Engineering College, Chennai	21/08/2019& 22/08/2019
2	Srinivasaraghavan.S	First Prize-Pitch Fest	Dept.of IT, SaiRam Engineering College, Chennai	21/08/2019& 22/08/2019
3	Srinivasaraghavan.S	Resource Person-Workshop on Python	Dept.of CSE,SCSVMV	04/09/2019& 05/09/2019
4	S.Aswin Aditya Manohar Ravi Kashigari Sravan kumar	Automotive Electronics for IOT Applications - Workshop	VIT,Chennai	18/09/2019
5	Sushil.s Vitapu Gnanasagar Malladi Saketh Kumar Mannava Vivek Vijayaraghavan Venkatraman	IOT Challenge 2020	Dept of CSE,SCSVMV	21/10/2019& 22/10/2019
6	Kashigari Sravan kumar Aditya Manohar Ravi S.Aswin	CSIR Open Day Exhibition 2019	Tharamani, Chennai	26/10/2019
7	Vitapu Gnanasagar	A quaponics farming and design case study	On Line Course	30/10/2019

Paper presented by the Students

S.No.	Name of the student	Paper presentation	Place	Date
1	Vitapu Gnanasagar	The Control Action Needed in a Recirculating Aquaponics System	CONCEPT-2020,Erode	25/01/2020
2	Mannava Vivek	The Control Action Needed in a Recirculating Aquaponics System	CONCEPT-2020,Erode	25/01/2020

20.STUDENS FEEDBACK

ODD SEMESTER 2019 – 20

Sl.No	Prefix	Name	Designation	Excelent	VeryGood	Good	Average	Poor	NoOfStud	Point	Score
1	Mr.	V.SWAMINATHAN	Associate Professor & HOD	1	0	0	0	0	1	10	100.00
2	Ms.	K.SARASWATHI	Assistant Professor(Stage-II)	7	5	0	0	0	12	110	91.67
3	Dr.	SUNDAR.T	Assistant Professor	73	35	12	1	1	122	1088	89.18
4	Ms.	JANANI R	Assistant Professor	20	5	2	1	0	28	256	91.43
5	Dr.	T.LAKSHMIBAI	Assistant Professor	14	1	1	0	0	16	154	96.25
6	Dr.	G P SIVAKUMAR	Assistant Professor	77	35	13	1	1	127	1134	89.29
7	Mr.	SARAVANA KUMAR.S.S	Assistant Professor	109	9	1	0	0	119	1168	98.15
8	Mrs.	K.SUGAPRIYA	Assistant Professor	51	54	23	5	0	133	1100	82.71
9	Mr.	BOOVARAHAN	Assistant Professor	99	14	8	1	0	122	1154	94.59
10	Mr.	G. SUBRAMANIYAN	Sr.Lab Instructor	8	4	1	0	0	13	118	90.77

STUDENT FEEDBACK- FACULTY SUBJECT WISE REPORT – 2019 - 20 ODD SEMESTER

EmpId	Prefix	Name	Sem	Subject_Name	Excelent	VeryGood	Good	Average	Poor	NoOfStud	Point	Score
10189	Mr.	V.SWAMINATHAN	7	Principle of Management & Professional Ethics	1	0	0	0	0	1	10	100.00
10060	Ms.	K.SARASWATHI	5	Power Plant Instrumentation	3	0	0	0	0	3	30	100.00
10060	Ms.	K.SARASWATHI	7	COMPUTER CONTROL LAB	0	1	0	0	0	1	8	80.00
10060	Ms.	K.SARASWATHI	7	Computer Control of Process	0	1	0	0	0	1	8	80.00
10060	Ms.	K.SARASWATHI	7	PROJECT WORK- PHASE 1	0	1	0	0	0	1	8	80.00
10060	Ms.	K.SARASWATHI	7	PROGRAMMABLE LOGIC CONTROLLER LAB	2	1	0	0	0	3	28	93.33
10060	Ms.	K.SARASWATHI	7	PLC & DATA ACQUISTION SYSTEM	2	1	0	0	0	3	28	93.33
10190	Dr.	SUNDAR.T	3	DIGITAL ELECTRONICS LAB	36	16	6	0	1	59	526	89.15
10190	Dr.	SUNDAR.T	3	DIGITAL ELECTRONICS	34	18	6	1	0	59	524	88.81
10190	Dr.	SUNDAR.T	5	Sensors & Actuators	3	0	0	0	0	3	30	100.00

10190	Dr.	SUNDAR.T	7	INSTRUMENTATION AND CONTROL IN PETROCHEMICAL INDUSTRIES	0	1	0	0	0	1	8	80.00
10073	Ms.	JANANI R	5	Electronics & Microprocessor Lab Lab	7	4	2	1	0	14	118	84.29
10073	Ms.	JANANI R	5	CONTROL SYSTEMS	3	0	0	0	0	3	30	100.00
10073	Ms.	JANANI R	5	Control Systems	3	0	0	0	0	3	30	100.00
10073	Ms.	JANANI R	5	Control Systems Lab	3	0	0	0	0	3	30	100.00
10073	Ms.	JANANI R	7	ADVANCED CONTROL SYSTEM	1	0	0	0	0	1	10	100.00
10073	Ms.	JANANI R	7	VIRTUAL INSTRUMENTATION LAB	1	0	0	0	0	1	10	100.00
10073	Ms.	JANANI R	7	VIRTUAL INSTRUMENTATION	2	1	0	0	0	3	28	93.33
10108	Dr.	T.LAKSHMIBAI	5	Power Electronics & Drives Lab	3	0	0	0	0	3	30	100.00
10108	Dr.	T.LAKSHMIBAI	5	Power Electronics and Drives Lab	3	0	0	0	0	3	30	100.00
10108	Dr.	T.LAKSHMIBAI	5	Electronics & Microprocessor Lab	3	0	1	0	0	4	36	90.00
10108	Dr.	T.LAKSHMIBAI	5	Power Electronics & Drives	2	1	0	0	0	3	28	93.33
10108	Dr.	T.LAKSHMIBAI	5	Power Electronics and Drives	3	0	0	0	0	3	30	100.00

10106	Dr.	G P SIVAKUMAR	3	DIGITAL ELECTRONICS LAB	35	16	4	0	1	56	504	90.00
10106	Dr.	G P SIVAKUMAR	3	DIGITAL ELECTRONICS	35	15	6	0	0	56	506	90.36
10106	Dr.	G P SIVAKUMAR	5	Electronics & Microprocessor Lab Lab	5	2	3	1	0	11	88	80.00
10106	Dr.	G P SIVAKUMAR	7	EMBEDDED SYSTEMS	2	2	0	0	0	4	36	90.00
10203	Mr.	SARAVANA KUMAR.S.S	3	DIGITAL ELECTRONICS LAB	52	6	1	0	0	59	574	97.29
10203	Mr.	SARAVANA KUMAR.S.S	3	DIGITAL ELECTRONICS	57	2	0	0	0	59	586	99.32
10203	Mr.	SARAVANA KUMAR.S.S	7	VLSI DESIGN	0	1	0	0	0	1	8	80.00
10204	Mrs.	K.SUGAPRIYA	3	DIGITAL ELECTRONICS LAB	10	12	7	2	0	31	246	79.35
10204	Mrs.	K.SUGAPRIYA	3	DIGITAL ELECTRONICS	8	15	6	2	0	31	244	78.71
10204	Mrs.	K.SUGAPRIYA	3	Digital Electronics Lab	15	9	4	0	0	28	246	87.86
10204	Mrs.	K.SUGAPRIYA	3	DIGITAL ELECTRONICS	11	13	4	0	0	28	238	85.00
10204	Mrs.	K.SUGAPRIYA	5	Electronics & Microprocessor Lab Lab	3	5	0	1	0	9	74	82.22

10204	Mrs.	K.SUGAPRIYA	5	DIGITAL SIGNAL PROCESSING	3	0	0	0	0	3	30	100.00
10204	Mrs.	K.SUGAPRIYA	7	ROBOTICS AND AUTOMATION	1	0	2	0	0	3	22	73.33
10183	Mr.	BOOVARAHAN	3	DIGITAL ELECTRONICS LAB	48	8	1	1	0	58	554	95.52
10183	Mr.	BOOVARAHAN	3	DIGITAL ELECTRONICS	48	4	6	0	0	58	548	94.48
10183	Mr.	BOOVARAHAN	5	INFORMATION CODING TECHNIQUES	2	1	0	0	0	3	28	93.33
10183	Mr.	BOOVARAHAN	7	PROJECT WORK- PHASE 1	1	1	1	0	0	3	24	80.00
10184	Mr.	G. SUBRAMANIYAN	5	Electronics & Microprocessor Lab Lab	8	4	1	0	0	13	118	90.77

View Feedback Report

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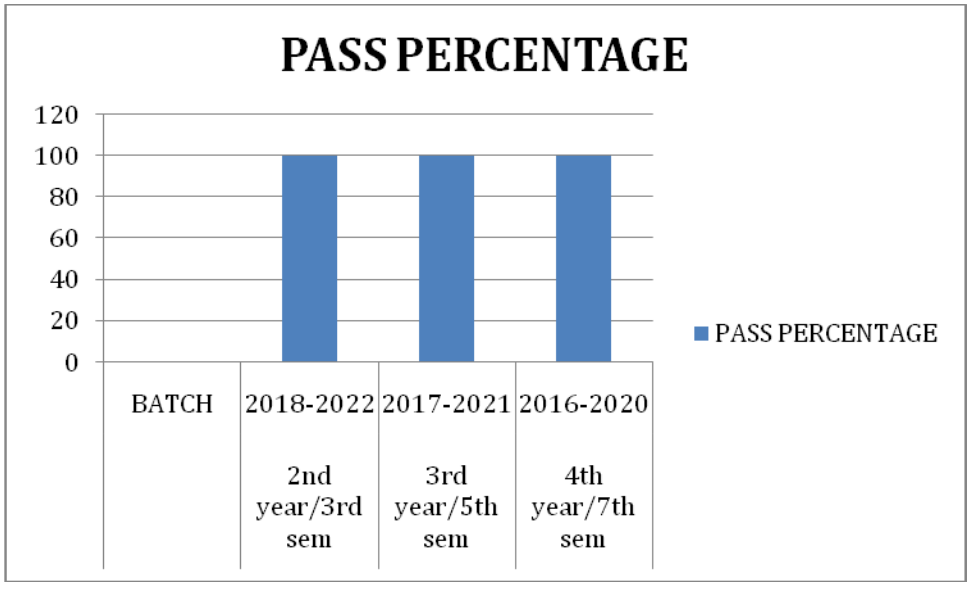
21.RESULT ANALYSIS

RESULT ANALYSIS (2019-2020)

OVER ALL PASS PERCENTAGE FOR ODD SEMESTERS (2019-2020)

ELECTRONICS AND INSTRUMENTATION ENGINEERING

YEAR/SEM	BATCH	PASS PERCENTAGE
2nd year/3rd sem	2018-2022	100%
3rd year/5th sem	2017-2021	100%
4th year/7th sem	2016-2020	100%

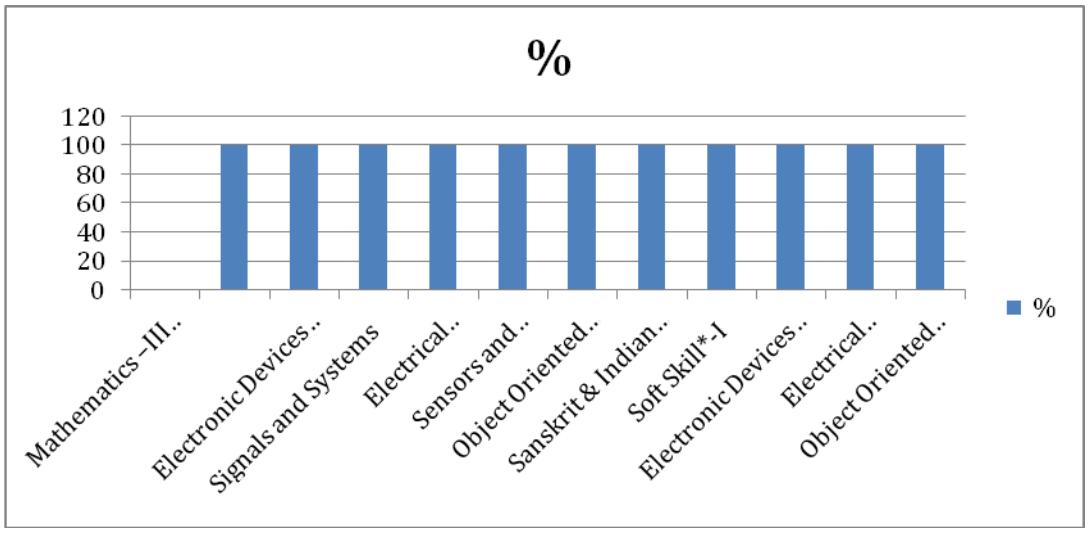


OVER ALL PASS PERCENTAGE FOR ODD SEMESTERS (2019-2020)

ELECTRONICS AND INSTRUMENTATION ENGINEERING

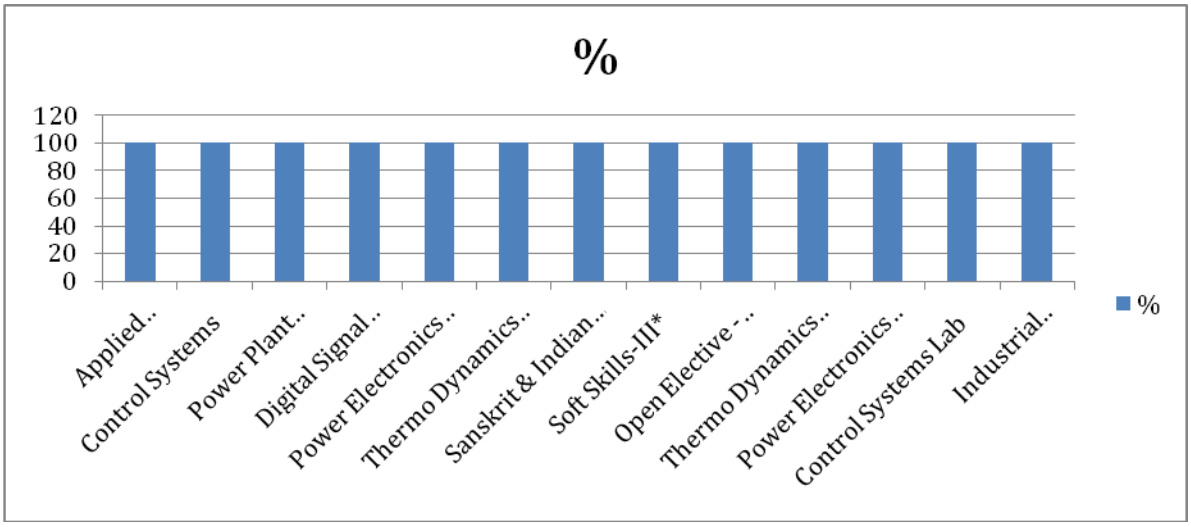
2nd year/3rd sem

S.No	Subject	%
1.	Mathematics –III (Probability and Statistics)	100
2.	Electronic Devices and Circuits	100
3.	Signals and Systems	100
4.	Electrical Measurements	100
5.	Sensors and Actuators	100
6.	Object Oriented Programming Using C++	100
7.	Sanskrit & Indian Culture*	100
8.	Soft Skill*-I	100
9.	Electronic Devices and Circuits Lab	100
10.	Electrical Measurements Lab	100
11.	Object Oriented Programming Using C++ Lab	100



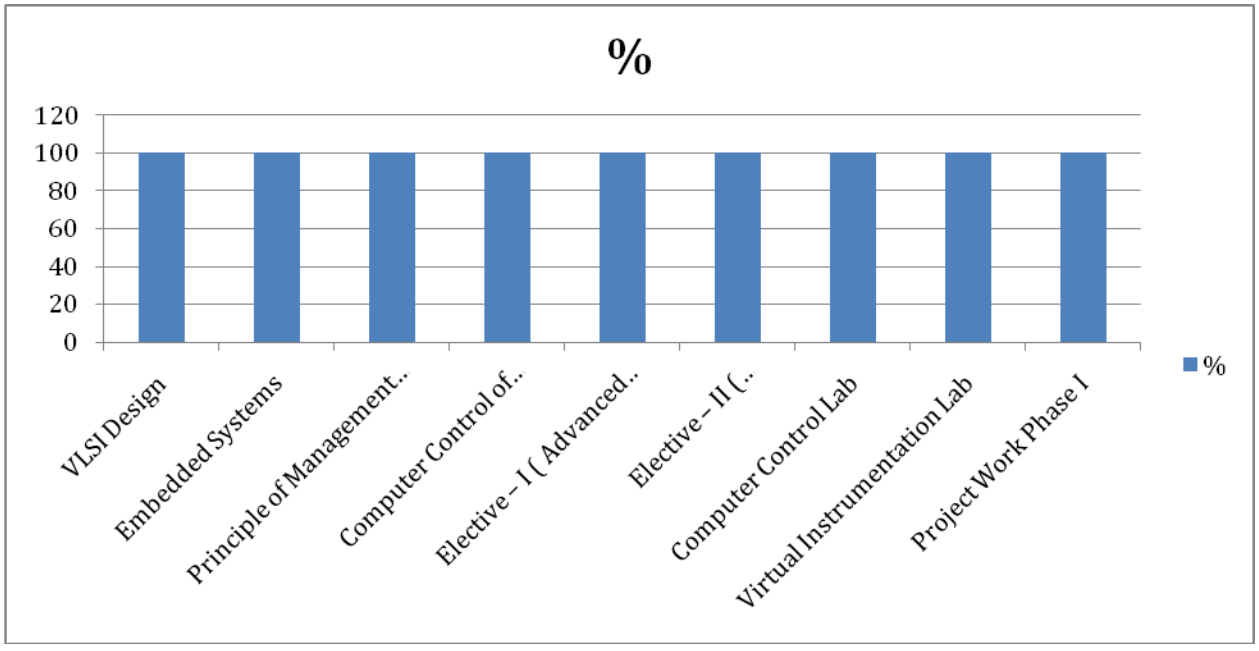
3rd year/5th sem

SL.NO.	SUBJECT	%
1	Applied Mathematics for Instrumentation Engineers III	100
2.	Control Systems	100
3.	Power Plant Instrumentation	100
4.	Digital Signal Processing	100
5.	Power Electronics and Drives	100
6.	Thermo Dynamics and Fluid Mechanics	100
7.	Sanskrit & Indian Culture - V	100
8.	Soft Skills-III*	100
9.	Open Elective - Astophysics	100
10.	Thermo Dynamics And Fluid Mechanics Lab	100
11.	Power Electronics and Drives Lab	100
12.	Control Systems Lab	100
13.	Industrial Training Process**	100



4^{th} year/7^{th} 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 (Advanced Control System)	100
6.	Elective – II (Instrumentation and control in Pertrochemical Industries)	100
7.	Computer Control Lab	100
8.	Virtual Instrumentation Lab	100
9.	Project Work Phase I	100

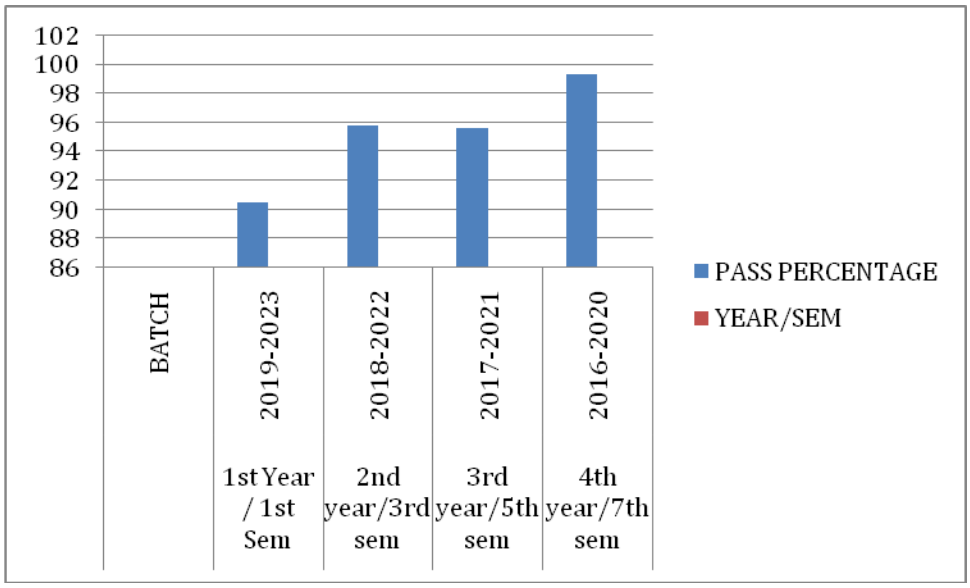


RESULT ANALYSIS (2019-2020)

OVER ALL PASS PERCENTAGE FOR ODD SEMESTERS (2019-2020)

MECHATRONICS

YEAR/SEM	BATCH	PASS PERCENTAGE
1st Year / 1st Sem	2019-2023	90.47
2nd year/3rd sem	2018-2022	95.80
3rd year/5th sem	2017-2021	95.67
4th year/7th sem	2016-2020	99.34

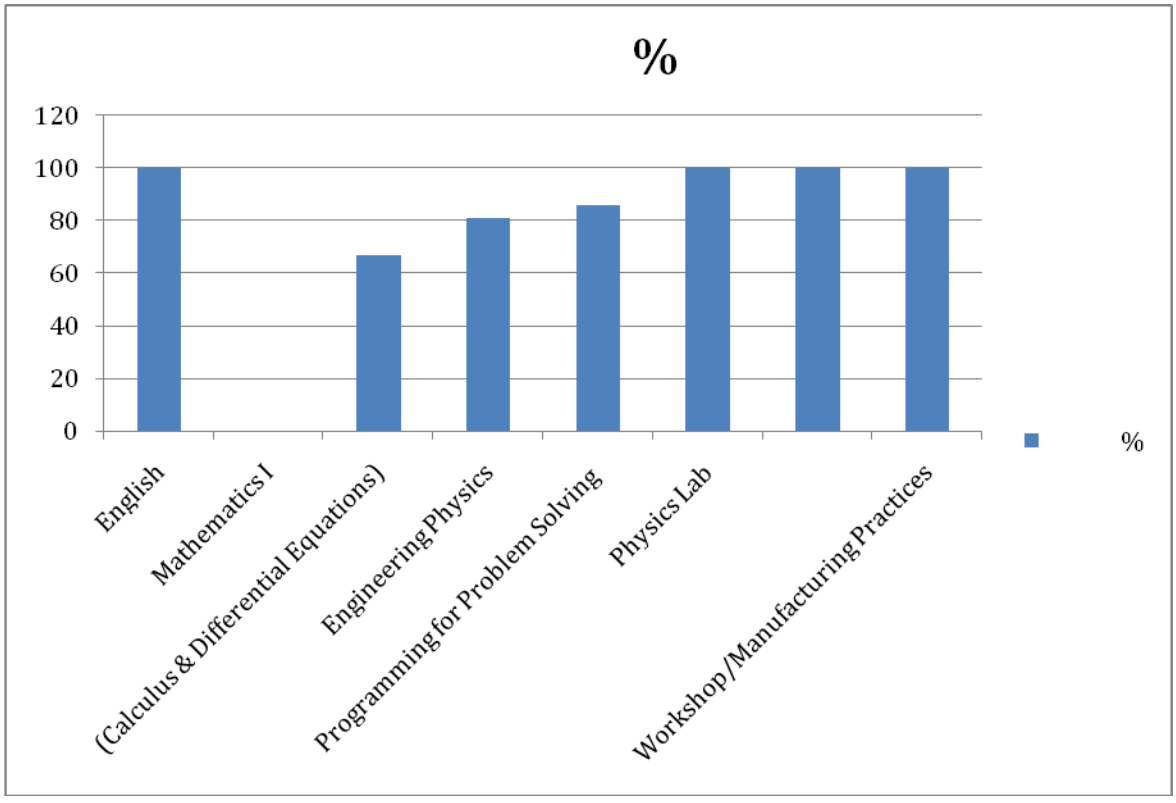


OVER ALL PASS PERCENTAGE FOR ODD SEMESTERS (2019-2020)

MECHATRONICS

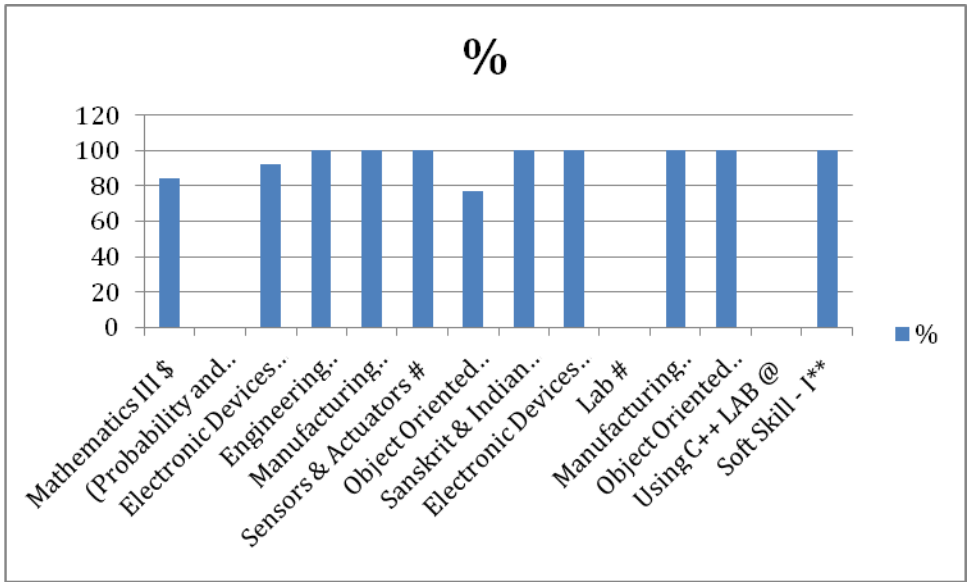
1st Year / 1st Sem

SL.No	Subject	%
1	English	100
2	Mathematics I (Calculus & Differential Equations)	66.66
3	Engineering Physics	80.95
4	Programming for Problem Solving	85.71
5	Physics Lab	100
6	Programming for Problem Solving Lab	100
7	Workshop/Manufacturing Practices	100



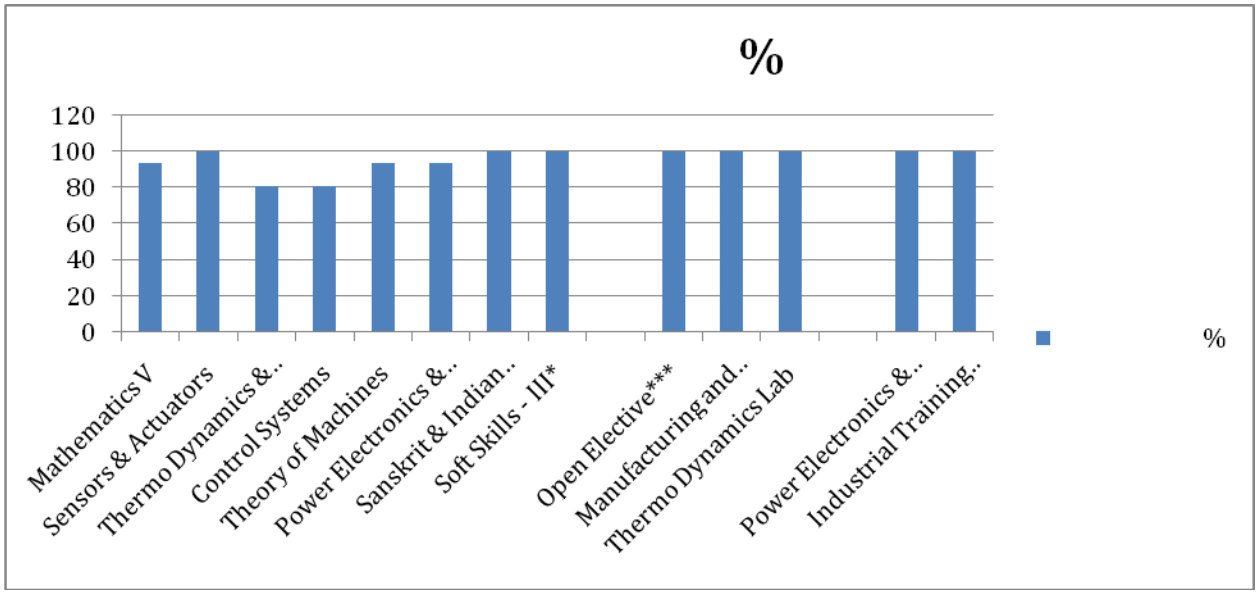
2nd year/3rd sem

SL.No	Subject	%
1	Mathematics III $ (Probability and Statistics)	84.61
2	Electronic Devices and Circuits #	92.30
3	Engineering Mechanics ##	100
4	Manufacturing Technology for Mechatronics ##	100
5	Sensors & Actuators #	100
6	Object Oriented Programming Using C++ @	76.92
7	Sanskrit & 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



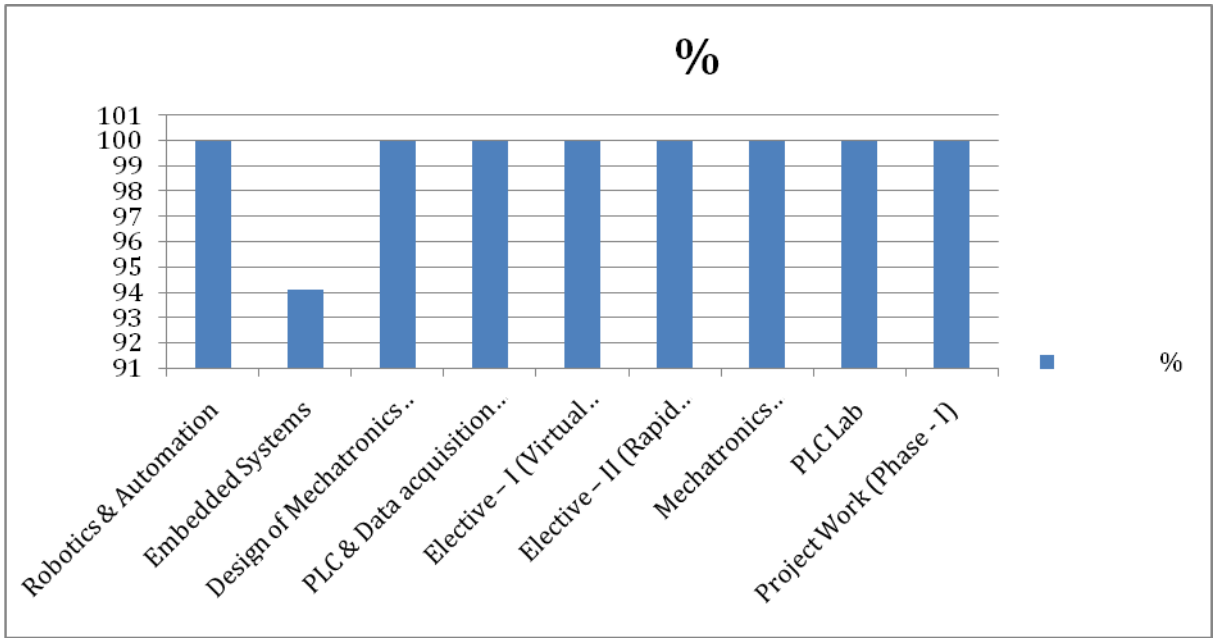
3rd year/5th sem

SL.No	Subject	%
1	Mathematics V	93.75
2	Sensors & Actuators	100
3	Thermo Dynamics & Heat transfer	81.25
4	Control Systems	81.25
5	Theory of Machines	93.75
6	Power Electronics & Drives	93.75
7	Sanskrit & Indian Culture V	100
8	Soft Skills - III*	100
9	Open Elective***	100
10	Manufacturing and Assembly drawing(Practical)	100
11	Thermo Dynamics Lab	100
12	Power Electronics & Drives Lab	100
13	Industrial Training Practice **	100



4th year/7th sem

SL.NO.	SUBJECT	%
1	Robotics & Automation	100
2.	Embedded Systems	94.11
3.	Design of Mechatronics Systems	100
4.	PLC & Data acquisition Systems	100
5.	Elective – I (Virtual Instrumentation)	100
6.	Elective – II (Rapid Manufacturing)	100
7.	Mechatronics Lab(Robotics & Simulation)	100
8.	PLC Lab	100
9.	Project Work (Phase - I)	100

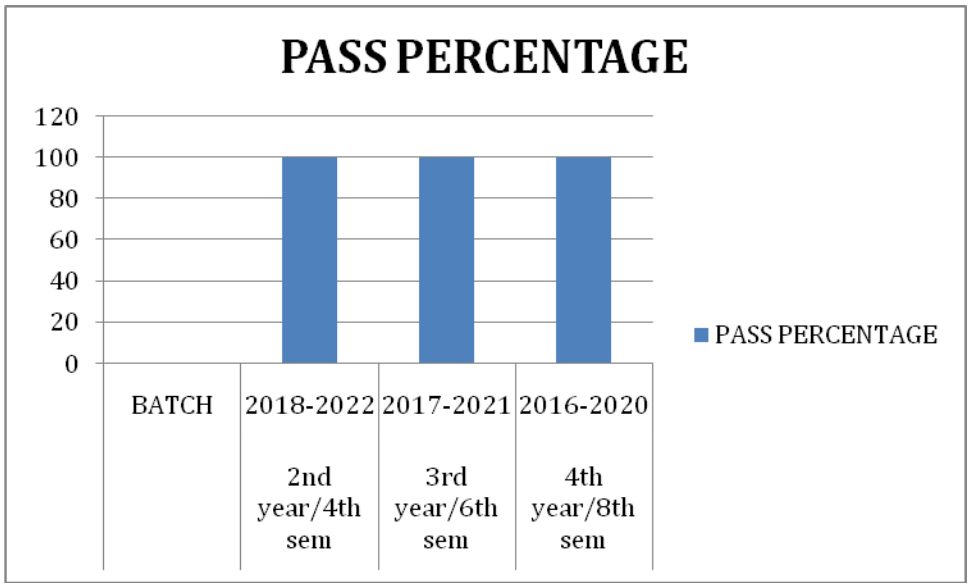


RESULT ANALYSIS (2019-2020)

OVER ALL PASS PERCENTAGE FOR EVEN SEMESTERS (2019-2020)

ELECTRONICS AND INSTRUMENTATION ENGINEERING

YEAR/SEM	BATCH	PASS PERCENTAGE
2nd year/4th sem	2018-2022	100%
3rd year/6th sem	2017-2021	100%
4th year/8th sem	2016-2020	100%

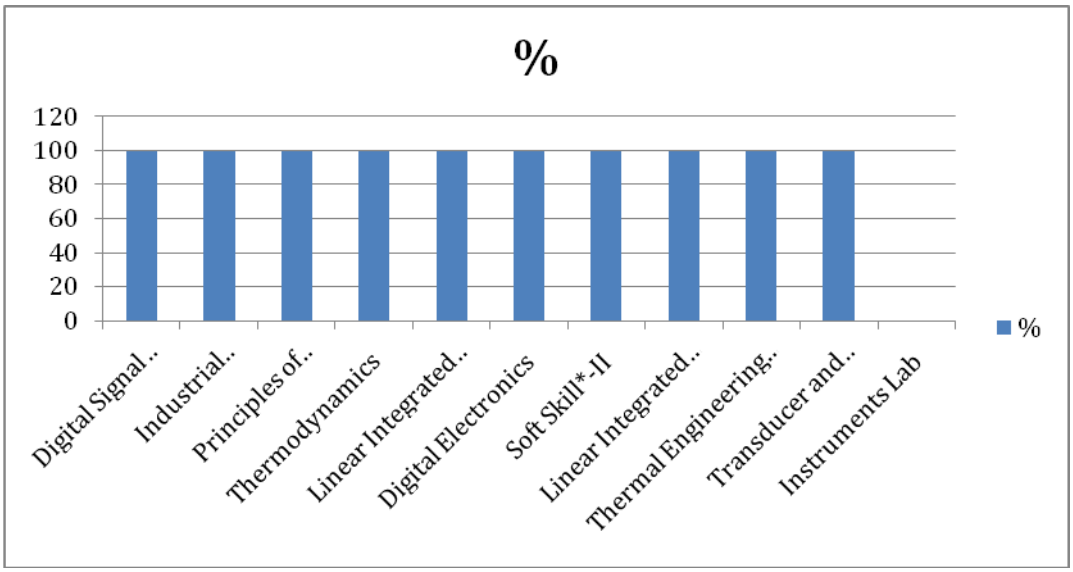


OVER ALL PASS PERCENTAGE FOR EVEN SEMESTERS (2019-2020)

ELECTRONICS AND INSTRUMENTATION ENGINEERING

2nd year/4th sem

S.No	Subject	%
1.	Digital Signal Processing	100
2.	Industrial Instrumentation	100
3.	Principles of Communication	100
4.	Thermodynamics	100
5.	Linear Integrated Circuits	100
6.	Digital Electronics	100
7.	Soft Skill*-II	100
8.	Linear Integrated Circuits & Digital Electronics Lab	100
9.	Thermal Engineering Lab	100
10.	Transducer and Industrial Instruments Lab	100

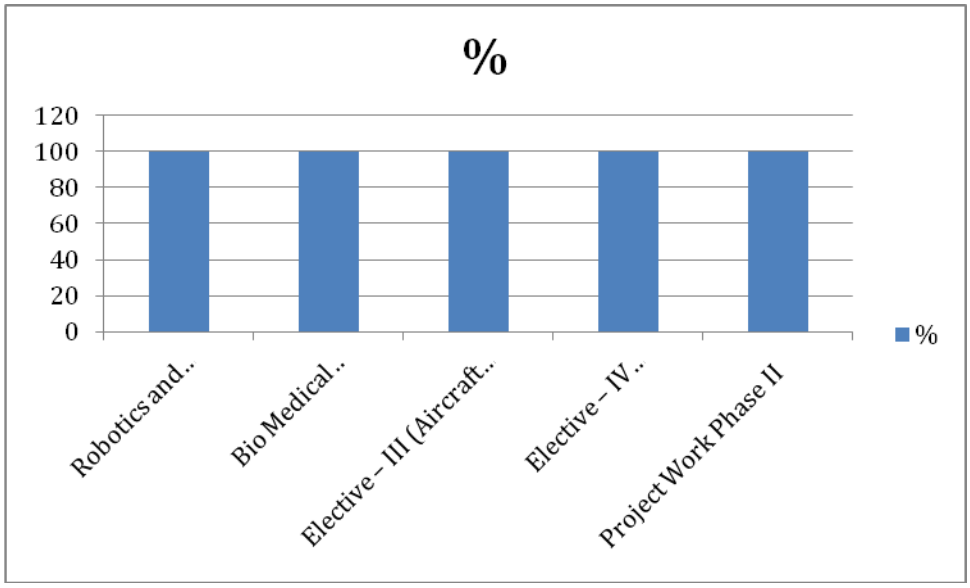


3rd year/6th sem

SL.NO.	SUBJECT	%
1	Operational Research	100
2.	Microprocessor and Microcontroller	100
3.	Process Control Instrumentation	100
4.	Industrial Chemical Process	100
5.	Analytical Instrumentation	100
6.	Fiber Optics and Laser Instrumentation	100
7.	Sanskrit & Indian Culture - VI	100
8.	Soft Skills-IV*	100
9.	Open Elective***	100
10.	Microprocessor and Microcontroller Lab	100
11.	Simulation Lab	100
12.	Industrial and Process Control Lab	100
13.	Industrial Training Process**	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

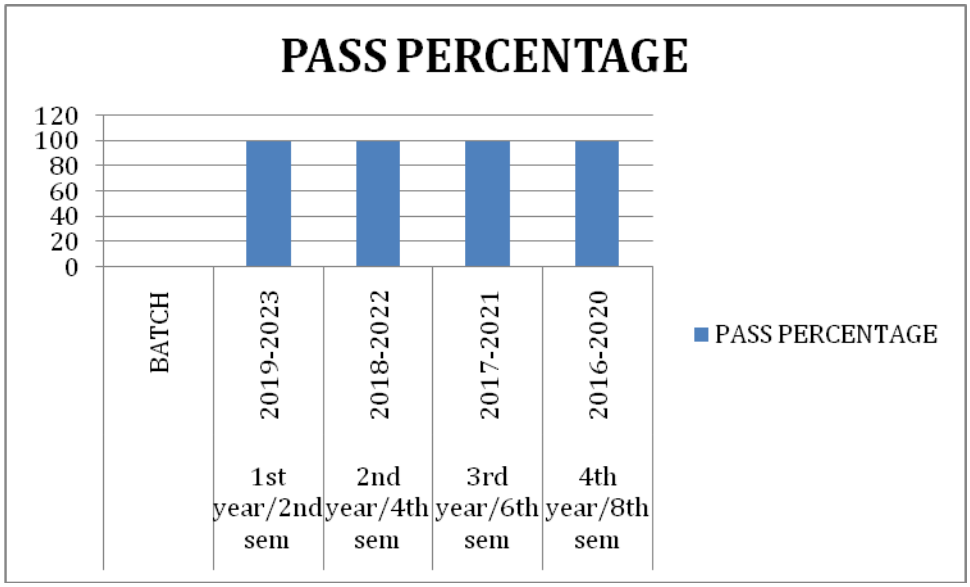


RESULT ANALYSIS (2019-2020)

OVER ALL PASS PERCENTAGE FOR EVEN SEMESTERS (2019-2020)

MECHATRONICS

YEAR/SEM	BATCH	PASS PERCENTAGE
1st year/2nd sem	2019-2023	100
2nd year/4th sem	2018-2022	100
3rd year/6th sem	2017-2021	100
4th year/8th sem	2016-2020	100

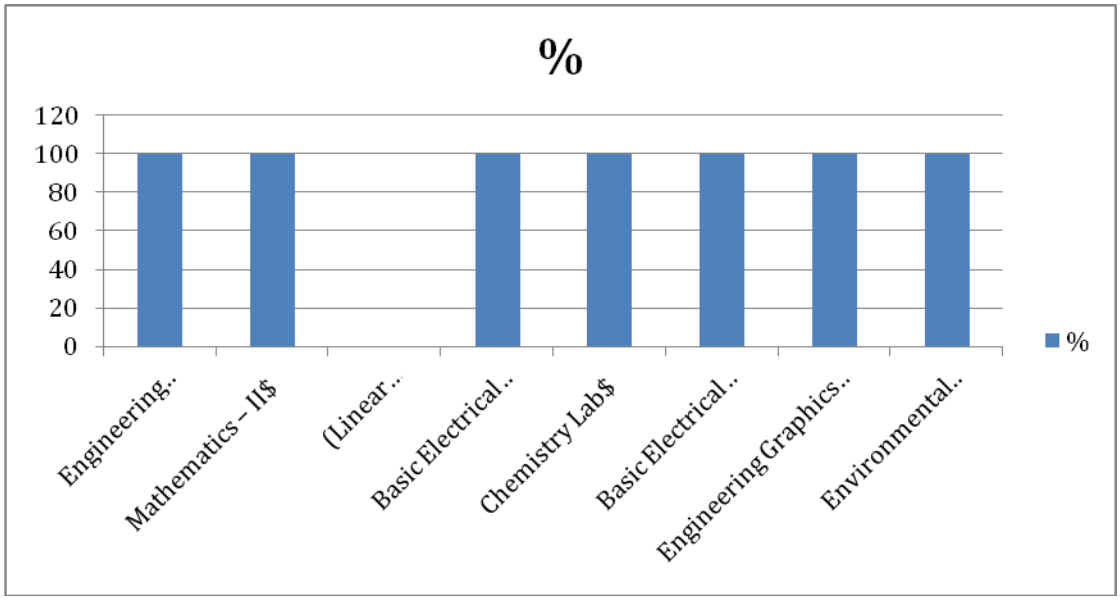


OVER ALL PASS PERCENTAGE FOR EVEN SEMESTERS (2019-2020)

MECHATRONICS

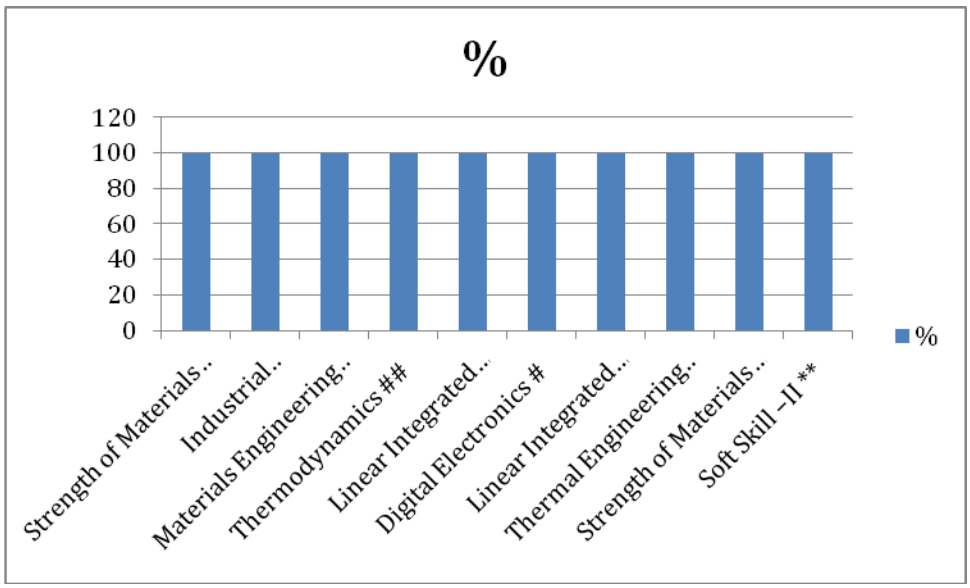
1st year/2nd sem

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



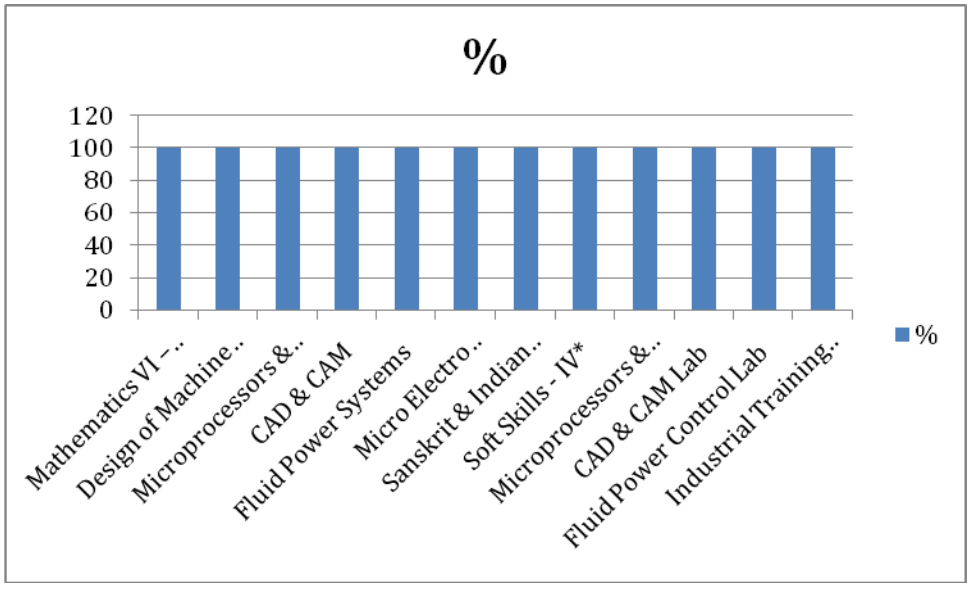
2nd year/4th sem

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



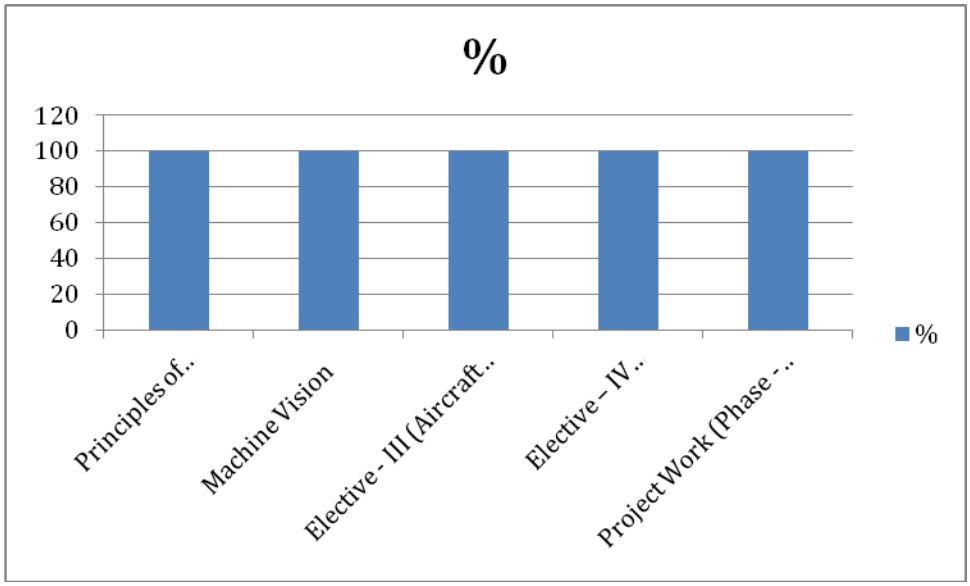
3rd year/6th sem

SL.NO.	SUBJECT	%
1	Mathematics VI – OPERATION RESEARCH	100
2.	Design of Machine Elements	100
3.	Microprocessors & Microcontrollers	100
4.	CAD & CAM	100
5.	Fluid Power Systems	100
6.	Micro Electro Mechanical systems- MEMS	100
7.	Sanskrit & Indian Culture VI	100
8.	Soft Skills - IV*	100
9.	Microprocessors & Microcontrollers Lab	100
10.	CAD & CAM Lab	100
11.	Fluid Power Control Lab	100
12.	Industrial Training Practice **	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 (Autotronics)	100
5.	Project Work (Phase - II)	100



22.PLACEMENT ACTIVITY DETAILS

EIE &MECHATRONICS PLACEMENT DETAILS (2015-2019 Batch)

S.No	Name	Reg no	Branch	Organization	Designation	On Campus/ OFF Campus	Salary package/ Year
1	Mannava Vivek	11169H017	Mechatronics	CTS	Programmer Analyst Trainee	On Campus	
2	Srinivasa Raghavan	11169H011		CTS	Programmer Analyst Trainee		

LIST OF COMPANIES VISITED FOR PLACEMENT


Tech
Mahindra


BOSCH
Invented for life

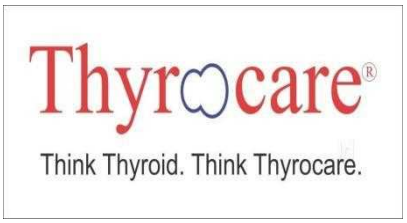

BASE
AUTOMATION TECHNOLOGIES
Concept to Reality


ACHINTYO


MAC


SHARDA


UNITRON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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 2019-20

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

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

Signature of Staff: _____

Date: _____

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering

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: _____

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

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

Signature of Staff: _____

Date: _____

I, **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: _____

I, **S.S.SARAVANAKUMAR,** 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: _____

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
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Department of Electronics and Instrumentation Engineering

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: _____

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering

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

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

Signature of Staff: _____

Date: _____

24.WORK PLAN - ACADEMIC PLANS FOR ENSUING SEMESTER

(For the Academic Year **2020-2021**)

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

Teaching, Learning and Evaluation related activities
● Teaching of the courses assigned 1. Power Plant Instrumentation - III Yr EIE 2. Computer Control of Process-IV Yr EIE 3. PLC and Data Acquisition – IV Yr Mechatronics 4. Simulation LAB - III Yr EIE 5. Analytical Instrumentation- III Yr Mechatronics 6. Robotics and Automation– IV Yr Mechatronics 7. Basic Electronics Engineering-II Yr Mechanical 8. Computer Control Lab-III Yr EIE & PLC LAB - IV Yr Mechatronics ● Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals. **Completed Work for the year 2019-2020** ● All the odd & even semester subject syllabus, internal evaluvation and assessments are completed
Co-curricular, Extension, Professional development related activities
● Planned to arrange an Industrial Visit to Fully Automated Food Processing Industry. ● Planned to attend Refresher courses and Conferences. **Completed Work for the year 2019-2020** ● Actively participated in Online FDP Programs. ● Assists students for Industrial visit to Impensus Electronics Pvt Ltd, Madurai.
Research, Publications and Academic contributions
● Planned to Present papers in IEEE Conferences. **Completed Work for the year 2019-2020** ● Published papers in UGC journals.

Signature of the Faculty **HOD/EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering
(For the Academic Year **2020-2021**)

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

Teaching, Learning and Evaluation related activities
● Teaching of the courses assigned **ODD SEMESTER** 1. Sensors and Actuators -III Yr Mechatronics 2. Instrumentation and Control in Petrochemical Industries-IV Yr EIE 3. Digital Electronics – II Yr CSE 4. Digital Electronics Lab – II Yr CSE **EVEN SEMESTER** 1. Principles of Management and Professional Ethics – IV Yr Mechatronics 2. Micro Electro Mechanical System – III Yr Mechatronics 3. Basic Electronics Engineering – II Yr Mecahnical 4. Industrial and Process Control Lab – III Yr EIE ● 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. **Completed Work for the previous year 2019-2020** ● 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
● To arrange an Industrial Visit to Core Company. ● To arrange a Short term Program on Relevant to Instrumentation and Mechatronics. ● To arrange a Workshop and Guest Lecture. ● To attend Refresher courses and Conferences **Completed Work for the previous year 2019-2020** ● Arranged and conducted Online FDPs in coordination with NITTTR Chandigarh. ● Actively participated in IEEE Conference. ● Arranged TVS training workshop and Industrial visit to students. ● Arranged Industrial visit to Impensus Electronics Pvt Ltd, Madurai.
Research, Publications and Academic contributions
● Planned to Present papers in IEEE Conferences. ● Planned to publish papers in Scopus. ● Successfully completed Ph.D Viva Voce on 19-07-2019. **Completed Work for the previous year 2019-2020** ● Presented a paper in the IEEE conference. ● Submitted Thesis during February 2019.

Signature of the Faculty **HOD/EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering
(For the Academic Year 2020-2021 - Work Plan)

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

Teaching, Learning and Evaluation related activities
Subjects assigned **ODD SEMESTER** 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 **EVEN SEMESTER** Will be assigned by HOD To prepare fresh study materials, question bank for PLC and Data Acquisition Systems **Completed Work for the previous year 2019-2020** All the odd and even semester subject syllabus, internal evaluation and assessments are completed
Co-curricular, Extension, Professional development related activities
● To organize two days FDP in Virtual Instrumentation, PLC and SCADA Based Automation ● Instruct students to join and undergo NPTEL Certificate exam as well as SWAYAM courses ● Registered for Domain Certification in NPTEL **Completed Work for the previous year 2019-2020** ● Participated in IEEE Conference for Paper Presentation.
Research, Publications and Academic contributions
● Publish papers in SCI Indexed Journals. ● Articles in International Conference. **Completed Work for the previous year 2019-2020** ● Arranged Students to Participate in CONCEPT 2019 and Papers presented and selected for publications in API Conference Proceedings.

Signature of the Faculty **HOD/EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering
(For the Academic Year **2020-2021**)

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

Teaching, Learning and Evaluation related activities
● Teaching of the courses assigned **ODD SEMESTER** 1. Sensors and Actuators -II Yr Mechatronics 2. Power Electronics and Drives -V Yr EIE & Mechatronics 3. Power Electronics and Drives Lab – V Yr EIE & Mechatronics 4. Analog and Digital Electronics Lab – II Yr CSE & IT **EVEN SEMESTER** 1. Autostrumentation (Elective) – IV Yr EIE 2. Linear Integrated Circuits – Imotive InI Yr EIE & Mechatronics 3. Sensors and Actuators (Elective) – III Yr ECE 4. Linear Integrated Circuits and Digital Electronics Lab – II Yr EIE & Mechatronics ● 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 Lab. **Completed Work for the previous year 2019-2020** ● All the odd & even semester subject syllabus, internal evaluation and assessments are completed ● Prepared Power Electronics and Drives Lab manual for Mechatronics Engg students. ● Arranged Inplant training at Amalgamations Valeo Clutch Private Ltd, Oragadam.
Co-curricular, Extension, Professional development related activities
● To arrange online Workshops, FDP and Short term Program relevant to instrumentation. ● To attend Refresher courses and Conferences. ● To arrange online Guest Lecture **Completed Work for the previous year 2019-2020** ● Arranged and conducted Online FDPs in coordination with NITTTR Chandigarh. ● Actively participated in IEEE Conference. ● Arranged Industrial visit to students
Research, Publications and Academic contributions
● Planned to present papers in IEEE Conferences. ● To publish papers in Scopus Journals. ● Completed Ph.D Viva Voce on 10-05-2019. **Completed Work for the previous year 2019-2020** ● Presented a paper in the IEEE conference. ● Submitted thesis during December 2018.

Signature of the Faculty **HOD/EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering
For the Academic Year 2020-2021 - Work Plan

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

Teaching, Learning and Evaluation related activities
● Teaching of the courses assigned **ODD SEMESTER** 1. Embedded Systems -IVYrEIE 2. Digital Electronics – II Yr CSE 3. Principles of Communication – III Yr IT 4. Digital Electronics Lab – II Yr CSE 5. Project coordinator-Phase-1 -IV yr Mechatronics **EVEN SEMESTER** 1. Microprocessor and Microcontroller - II Year CSE 2. Embedded Systems – III Yr IT 3. Principles of Management – IV Yr Mechatronics 4. Microprocessor and Microcontroller Lab- II Year CSE 5. Project Coordinator – IV Yr Mechatronics ● Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals. ● Prepare new syllabus and Lab manual for Embedded System Design, Microprocessors & Microcontrollers, Disaster Management, Entrepreneurship Development, Nanoelectronics . **Completed Work for theprevious year 2019-2020** ● Prepared lecture notesof embedded and Principles of management subjects for the benefit of various 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 2019-2020** ● Attended 15 Day FDP on Smart Electronics at **IIT-BHU.** ● Activelyparticipated in FDP's conducted through online. ● Organized two webinars for the welfare of students.
Research, Publications and Academic contributions
● Planned to publish papers in Scopus. **Completed Work for the previous year 2019-2020** ● Published a paper in Springer conference.

Signature of the Faculty **HOD/EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering
(For the Academic Year **2020-2021**)

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

Teaching, Learning and Evaluation related activities
● Teaching of the courses assigned **ODD SEMESTER** 1. VLSI Design -IVYrEIE 2. Electronic Devices and Circuits -IIYr Mechatronics 3. Digital Electronics – II Yr CSE 4. Basic Electronics Engineering – I Mechanical (PT) 5. Digital Electronics Lab – II Yr CSE **EVEN SEMESTER** 1. Biomedical Instrumentation– IV YrEIE 2. Digital Electronics – II Yr Mechatronics 3.Microprocessor and Microcontroller - II Year CSE 4. Microprocessor and Microcontroller Lab- II Year CSE ● 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. **Completed Work for theprevious year 2019-2020** ● 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
● To arrange a Workshop and Guest Lecture. ● To attend Refresher courses and Conferences **Completed Work for the previous year 2019-2020** ● Attended Online FDPs in coordination with NITTTR Chandigarh. ● Actively participated in FDP's conducted through online.
Research, Publications and Academic contributions
● Planned to Present papers in IEEE Conferences. ● Planned to publish papers in Scopus. **Completed Work for the previous year 2019-2020** ● Published a paper in Scopus.

Signature of the Faculty **HOD/EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering
(For the Academic Year **2020-2021**)

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

Teaching, Learning and Evaluation related activities
● Teaching of the courses assigned 1. Control system- III Year EIE 2. Digital Electronics-II Year CSE_S5 3. Automatics control system- II Year Mechanical Engineering 4. Robotics and Automation - IV Year EIE 5. Microprocessor and Microcontroller - II Year CSE_S5 6. Microprocessor and Microcontroller - III Year EIE & Mechatronics 7. Microprocessor and Microcontroller Lab- II Year CSE ● The Assessment (Internal test)for the above said subjects will be conducted at regular intervals. **Completed Work for the year 2019-2020** ● All the odd & even semester subject syllabus, internal evaluvation and assessments are completed
Co-curricular, Extension, Professional development related activities
● Planned to arrange the Seminar about the Industrial process through online mode. **Completed Work for the year 2019-2020** ● Activelyparticipated in FDP conducted through online. ● Arranged mini project and presentation to the students.
Research, Publications and Academic contributions
● Planned to Present papers in IEEE Conferences. ● Second Doctoral Committee meeting completed.

Signature of the Faculty **HOD/EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering
(For the Academic Year **2020-2021**)

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

Teaching, Learning and Evaluation related activities
● Teaching of the courses assigned **ODD SEMESTER** 1. Power Plant Instrumentation – III yr EIE 2. Digital Electronics – II Yr CSE 3. Digital Electronics Lab – II Yr CSE **EVEN SEMESTER** 1. Microprocessor & Microcontroller – II yr CSE 2. Embedded Systems – III yr IT 3. Principles of communications – II yr EIE 4. Microprocessor & Microcontroller lab – II yrcse ● Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals. ● PrepareLab manual for Digital Electronics Lab. **Completed Work for theprevious year 2019-2020** ● 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
● To arrange an Industrial Visit to Core Company. ● To arrange a Workshop and Guest Lecture. ● To attend Faculty Development Program. **Completed Work for the previous year 2019-2020** ● Participated Online FDPs in coordination with NITTTR Chandigarh. ● Actively participated in IEEE Conference. ● Attended TVS training workshop.
Research, Publications and Academic contributions
● Planned to Present papers in IEEE Conferences. ● Planned to publish papers in Scopus.

Signature of the Faculty **HOD/EIE**

25. DETAILS OF ADDITIONAL RESPONSIBILITIES OF THE STAFF

Additional Responsibilities for the Academic Year 2019-20

S.No	Description of Work	Faculty In Charge
1	Educational Tour, Industrial Visit, Internship Training, Workshop, Guest Lectures.	All Faculties
2	Placements	Mr.G.P.Sivakumar
3	IQAC	Ms.Janani R
4	Time Table Incharge	Ms.Janani R Mr.G.P.Sivakumar
5	Internal Test and university exam related works	Mrs.T.Lakshmibai Mrs.K.Komathy
6	Department Activity	Mr.T.Sundar
7	Result Analysis & Feedback	Mr.T.Sundar Mr.K.Vinayagamoorthy
8	Department Library	Mrs.K.Sugapriya Mr.K.Vinayagamoorthy
9	Research Coordinator	Mr.S.S.Saravanakumar Mrs.V.Komala
10	Students Attendance & Staff Attendance	Mrs.K.Saraswathi Mrs.K.Komathy Mr.K.Vinayagamoorthy
11	Web Updation	Mr.N.C.A.Boovarahan
12	Department Work(File Maintenance, Stationary, Letters)	Mrs.V.Komala Mrs.K.Komathy
13	Department Profile book	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

23.10.2019

MINUTES OF CLASS COMMITTEE MEETING OF IV YEAR EIE & MECHATRONICS CONDUCTED AT EIE DEPT ON 21.10.2019 at 10.30 AM.

Students Present:

1. IV Year EIE
2. IV Year Mechatronics

Staff Present : Mrs.K.Saraswathi & Mr.N.C.A.Boovarahan (Class-in-charge)

HOD :Mr.V.SWAMINATHAN

The following points were discussed:

1. The academic schedule was discussed.
2. All the students are advised to maintain their attendance percentage above 80 percent. Individual attendance percentage of each student was discussed.
3. The syllabus completions of each subject, both theory & Practical was discussed in detail.
4. Students are advised to concentrate on their phase I project. And it is informed to the students that if they want to do projects in industries they will be allowed to do the project on proper submission of documents.
5. It is informed to the students that interdisciplinary projects are also allowable.

Class in Charge **HOD/EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering

23.10.2019

MINUTES OF CLASS COMMITTEE MEETING OF III YEAR EIE & MECHATRONICS CONDUCTED AT EIE DEPT ON 21.10.2019 at 11.50 AM.

Students Present:

3. III Year EIE
4. III Year Mechatronics

Staff Present:

1. Mrs.Janani.R
2. Dr.G.Padmanabha Sivakumar

HOD:

Prof. V.SWAMINATHAN

The following points were discussed:

1. Importance of attendance was elaborated to students to sustain their scholarships.
2. Completion of syllabus in all subjects in view of the second internal test and the remaining working days.
3. Importance of Internship & Availability of Internship online portals was informed.
4. Advantages of Adding NPTEL & SWAYAM courses to their regular subjects were elaborated.
5. Students were asked to think on LIVE projects & Interdisciplinary projects for their better future scope.
6. Students will be allowed to industry by proper document submission for their final year project.

Class in Charge **HOD/EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering

23.10.2019

MINUTES OF CLASS COMMITTEE MEETING OF II YEAR EIE & MECHATRONICS CONDUCTED AT EIE DEPT ON 21.10.2019 at 11.20 AM.

Students Present:

1. II Year EIE
2. II Year Mechatronics

Staff Present : Mrs.K.Sugapriya (Class-in-charge)

HOD :Mr.V.SWAMINATHAN

The following points were discussed:

1. The importance of attendance was explained to the students and also instructed to follow the attendance percentage above 80 percentages.
2. It is informed to the students that, those who are not maintaining their required attendance percentage, they will not get the scholarship in the forthcoming academic years.
3. Students are advised to concentrate on the current semester subjects and understand the basics which are essential for competitive exams in their future.
4. The important dates in the Academic schedule were informed to the students, namely the Internal Test-II, Practical exam, Theory exam, etc.
5. It is informed to the students to wear an ID card compulsorily during working hours.
6. The students are comfortable with the current semester Theory and Practical subjects.
7. The students are willing to get more inputs in the Mathematics and Manufacturing Technology subjects.
8. Students are advised to arrange and actively participate in the various activities like Industrial Visit, In plant training, Internship, Education tour, Workshop and Guest Lecture.
9. Students are advised to register for an online NPTEL & MOOCs course.

Class in Charge

HOD/EIE

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering

23.10.2019

MINUTES OF CLASS COMMITTEE MEETING OF I YEAR MECHATRONICS CONDUCTED AT EIE DEPT ON 21.10.2019.

Students Present:

I Year Mechatronics

Staff Present: Mr. S. S. SARAVANA KUMAR (Class-in-charge)

HOD: Mr. V. SWAMINATHAN

The following points were discussed:

1. Students are advised to maintain a good attendance percentage. The student's attendance particulars are periodically informed/communicated to their parents.
2. It is informed to the students that, those who are not maintaining their required attendance percentage, they will not get the scholarship in the forthcoming academic years.
3. Students are asked to maintain a good progress in Internal Tests and Class Assignments to improve their Internal Assessment.
4. Students are advised to register for an online NPTEL & MOOC course.
5. The students are comfortable with the current semester Theory and Practical subjects.
6. Some of the students faced difficulty in the Programming Language subject.
7. The important dates in the Academic schedule were informed to the students.
8. All the students are informed to do at least one In-plant training by each semester.
9. The importance of Industrial visit and Internship programme were informed to the students

Class In-charge

HOD/EIE

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering

10.07.2019

Minutes of EIE Staff Meeting held on 04/07/2019

The following are the points discussed:

1. Reopening dates for the Engineering students are informed to the staff members.
2. Subject allocation to the respective staff members are handed over along with their class schedule.
3. Students admitted towards 2019-20 were discussed in detail.
4. Class incharges are advised to encourage the students to join in NPTEL /SWAYAM) online courses in at least one subject per semester.
5. All faculty members are informed to prepare their respective question bank and the senior faculties are informed to verify the question bank before sending it to the COE.
6. Additional responsibilities for the faculty members are assigned.

HOD/EIE
(V.Swaminathan)

17.09.2019

Minutes of EIE Staff Meeting held on 09/09/2019

The following are the points discussed:

1. The detailed Academic schedule for all the years of engineering for the odd semester 2019-2020 are informed to the staff members.
2. All the faculties are advised to plan their academic activities in advance according to the schedule discussed above.
3. All the Class incharges are informed to monitor their students' attendance regularly, and to take suitable action if any adverse is noticed.
4. The staff members are advised to strictly adhere to the university timings and to maintain Biometrics timing properly.
5. All the staff members insist on taking measures to bring Funded Projects, MOU's and to file a Pattern on their research work if possible.
6. All are advised to take necessary action for IEEE conference 2020 and technical Symposium.
7. The faculties are advised to take some active measures to improve the Admission 2020-2021.

HOD/EIE
(V.Swaminathan)

27.MAINTENANCE OF STAFF RECORDS

Staff Leave Particulars
From 01/07/2019 to 30/06/2020
Total No of working days: 250

S. N	NAME	DESIGNATION	CL	EL	ML	RH	CH	OD	DL	PA	MA	VA	LOP	TOT
1	Mr. V.SWAMINATHAN	Associate Professor & HOD	4.0	-	-	-	2	-	-	-	-	-	-	6
2	Ms. K.SARASWATHI	Assistant Professor (Stage-II)	7.0	-	6.0	-	-	3.0	-	-	-	15	-	31
3	Dr. SUNDAR.T	Assistant Professor	1.0	-	-	-	-	3.0	-	-	-	15	-	19
4	Ms. JANANI R	Assistant Professor	8.0	9.0	-	-	-	-	2.0	-	-	11	-	30
5	Dr. T.LAKSHMIBAI	Assistant Professor	2.5	-	4.0	1	-	-	-	-	-	15	-	22
6	Dr. G PADMANABHA SIVAKUMAR	Assistant Professor	9.0	-	-	-	-	3.0	13.0	-	-	15	-	40
7	Mr. SARAVANA KUMAR.S.S	Assistant Professor	9.0	-	-	-	-	3.0	-	-	-	15	-	27
8	Mrs. K.SUGAPRIYA	Assistant Professor	5.5	-	-	1	-	-	-	-	-	15	-	21.5
9	Mr. BOOVARAHAN	Assistant Professor	8.5	-	-	-	-	-	-	-	-	15	-	23.5
10	Mr. G. SUBRAMANIYAN	Sr.Lab Instructor	9.5	-	-	1	-	1.0	-	-	-	-	-	11.5
11	Ms. V.KOMALA	Lab Instructor	4.0	-	-	1	-	3.0	-	-	-	-	-	8
12	Ms. K.SOUNDARI	Lab Instructor	-	-	-	-	-	-	-	-	-	-	-	-
13	Mr. K.VINAYAGAMOORTHY	Lab Instructor	4.5	10.0	-	-	-	-	-	-	-	-	-	14.5
14	Ms. K.KOMATHY	Lab Instructor	4.5	-	41.0	-	-	-	-	-	-	-	-	45.5

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

Signature of HOD

TOTAL LEAVE AVAILED BY THE STAFF

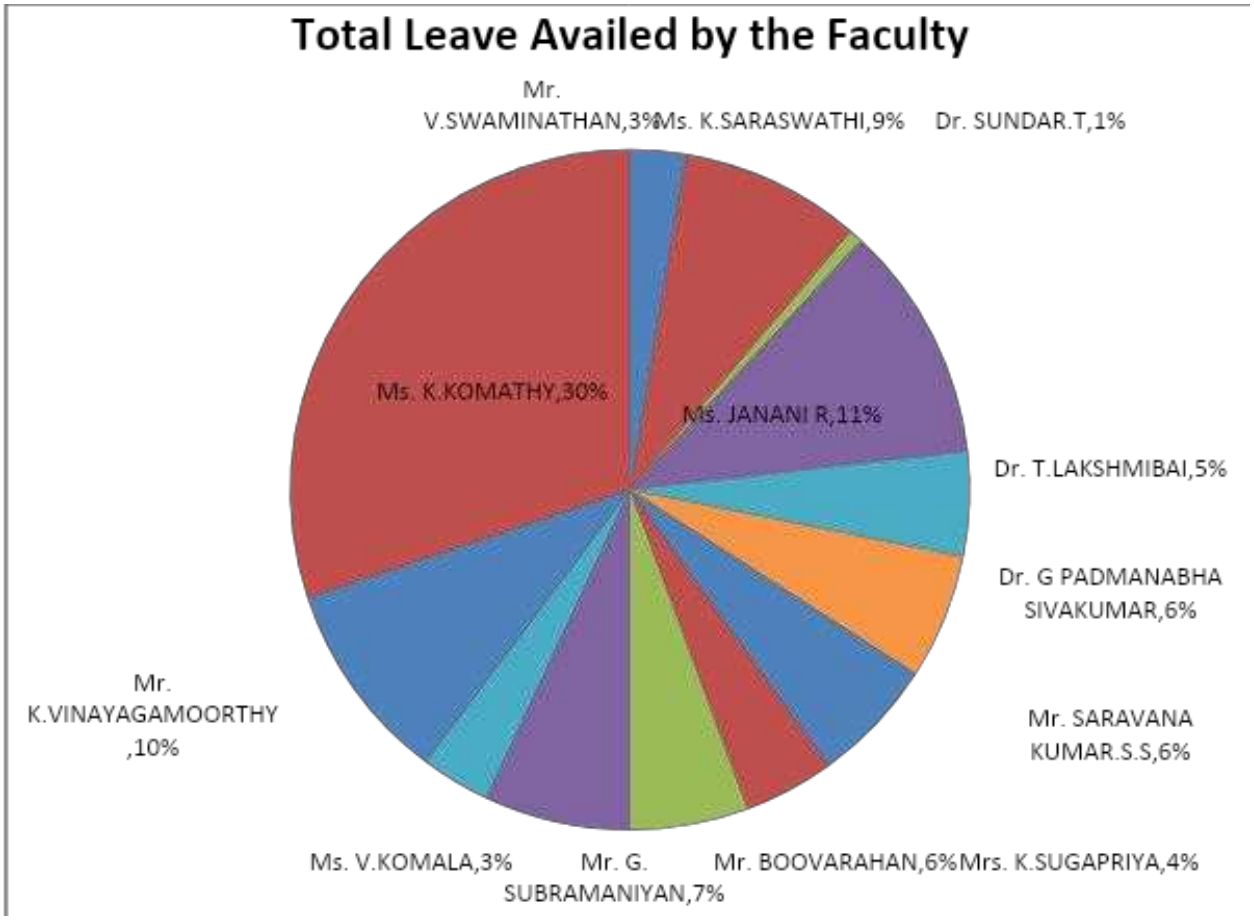
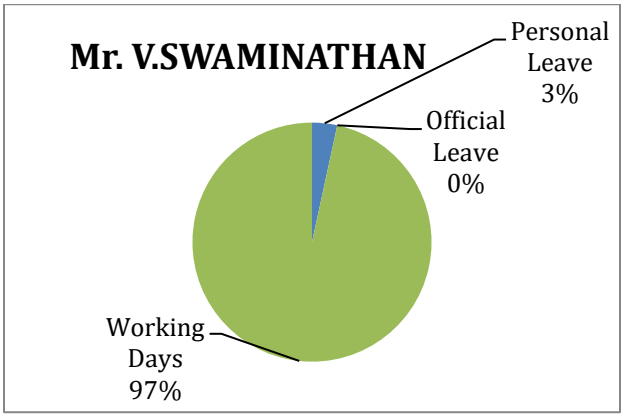
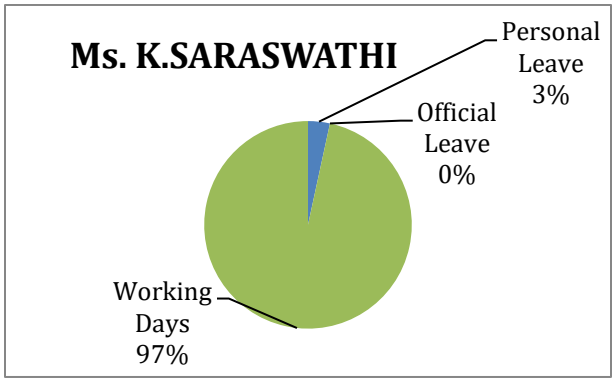
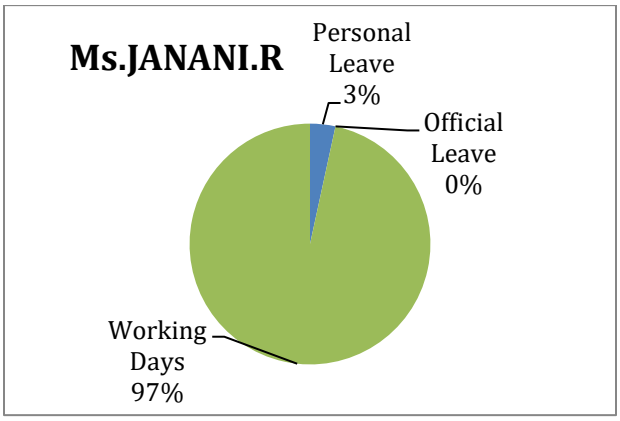
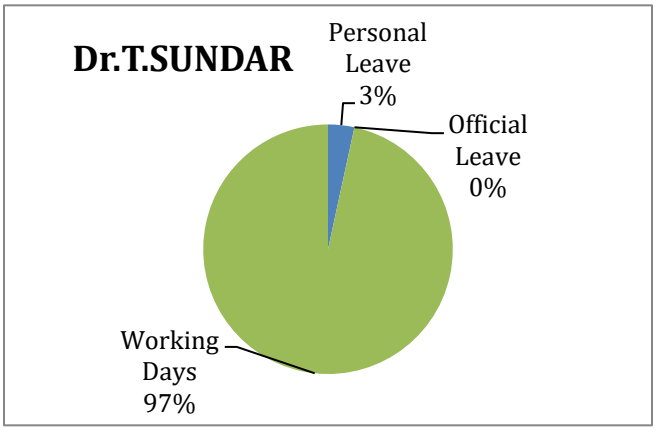


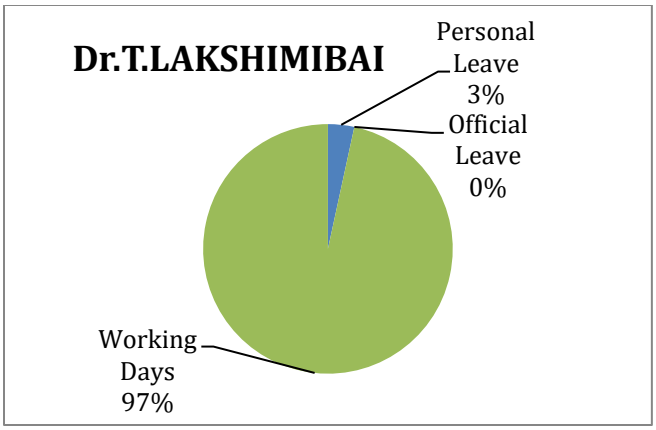
CHART FOR EFFECTIVE HOURS SPENT BY EACH TEACHING STAFF

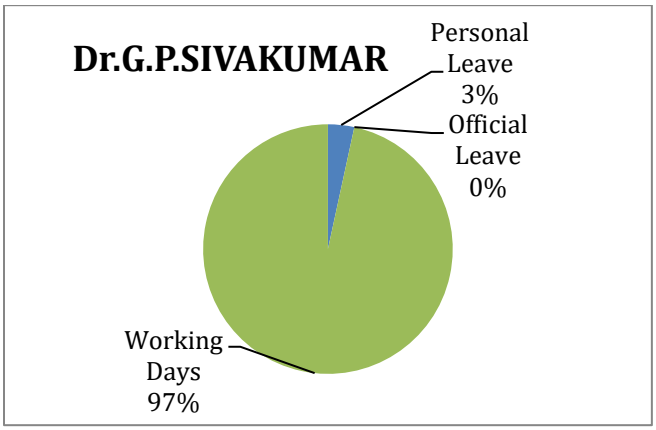


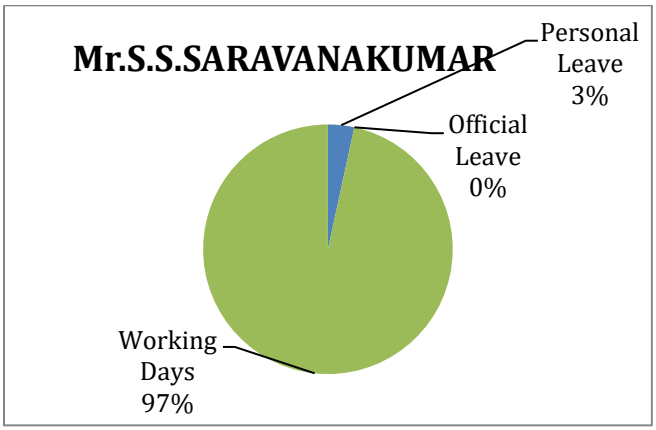

Ms. K.SARASWATHI
Personal Leave 3%
Official Leave 0%
Working Days 97%

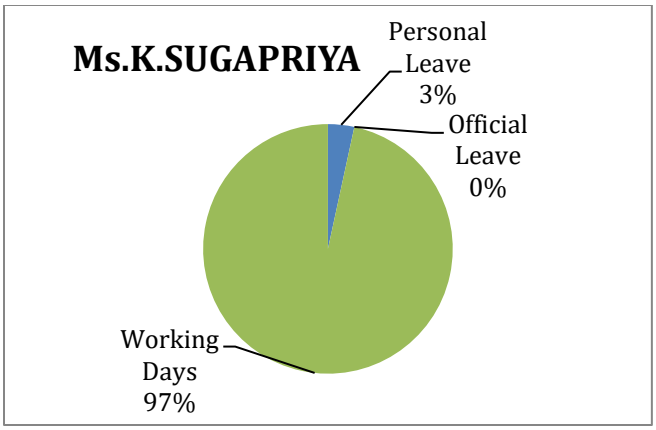

Ms.JANANI.R
Personal Leave 3%
Official Leave 0%
Working Days 97%

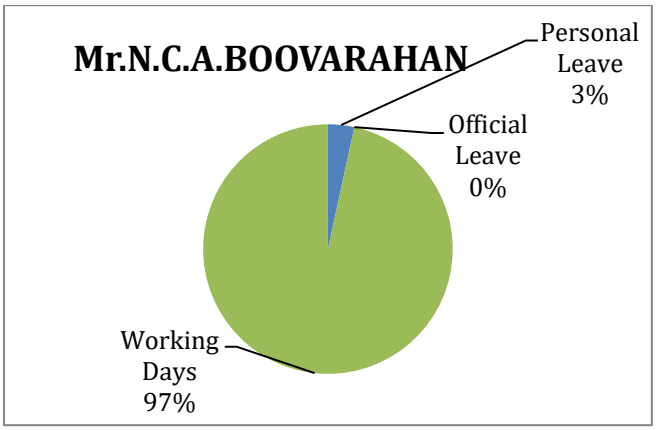

Dr.T.SUNDAR
Personal Leave 3%
Official Leave 0%
Working Days 97%


Dr.T.LAKSHIMIBAI
Personal Leave 3%
Official Leave 0%
Working Days 97%


Dr.G.P.SIVAKUMAR
Personal Leave 3%
Official Leave 0%
Working Days 97%


Mr.S.S.SARAVANAKUMAR
Personal Leave 3%
Official Leave 0%
Working Days 97%


Ms.K.SUGAPRIYA
Personal Leave 3%
Official Leave 0%
Working Days 97%


Mr.N.C.A.BOOVARAHAN
Personal Leave 3%
Official Leave 0%
Working Days 97%

S.No	Name	Designation	Nature of Leave	From		To		No of Days
1	V.SWAMINATHAN	Associate Professor & HOD	CL	17.07.2019	FN	17.07.2019	AN	1.00
			CL	29.07.2019	FN	29.07.2019	AN	1.00
			CL	18.11.2019	FN	18.11.2019	AN	1.00
			CL	04.12.2019	FN	04.12.2019	AN	1.00
			CH	15.02.2020	FN	15.02.2020	AN	1.00
			CH	13.03.2020	FN	13.03.2020	AN	1.00
2	K.SARASWATHI	Assistant Professor(Stage-II)	CL	09.08.2019	FN	09.08.2019	AN	1.00
			CL	13.09.2019	AN	13.09.2019	AN	0.50
			CL	21.09.2019	FN	21.09.2019	AN	1.00
			OD	14.10.2019	FN	16.10.2019	AN	3.00
			CL	30.10.2019	FN	30.10.2019	FN	0.50
			CL	01.11.2019	FN	01.11.2019	AN	1.00
			ML	14.11.2019	FN	19.11.2019	AN	6.00
			VA	04.12.2019	FN	18.12.2019	AN	15.00
			CL	28.11.2019	FN	28.11.2019	AN	1.00
			CL	23.12.2019	FN	24.12.2019	AN	2.00
3	SUNDAR.T	Assistant Professor	OD	14.10.2019	FN	16.10.2019	AN	3.00
			VA	04.12.2019	FN	18.12.2019	AN	15.00
			CL	12.02.2020	FN	12.02.2020	AN	1.00
4	JANANI R	Assistant Professor	CL	11.07.2019	FN	11.07.2019	AN	1.00
			CL	16.07.2019	FN	16.07.2019	AN	1.00
			CL	31.08.2019	FN	31.08.2019	AN	1.00
			DL	17.09.2019	FN	17.09.2019	AN	1.00
			DL	21.09.2019	FN	21.09.2019	AN	1.00
			EL	23.10.2019	FN	31.10.2019	AN	9.00
			CL	15.11.2019	FN	15.11.2019	AN	1.00
			VA	02.12.2019	FN	12.12.2019	AN	11.00
			CL	23.12.2019	FN	23.12.2019	AN	1.00
			CL	11.02.2020	FN	11.02.2020	AN	1.00
			CL	12.02.2020	AN	12.02.2020	AN	0.50
			CL	03.03.2020	AN	04.03.2020	AN	1.50
5	G P SIVAKUMAR	Assistant Professor	CL	29.07.2019	AN	29.07.2019	AN	0.50
			DL	08.08.2019	FN	08.08.2019	AN	1.00
			CL	07.09.2019	FN	07.09.2019	AN	1.00
			DL	17.09.2019	FN	17.09.2019	AN	1.00
			OD	14.10.2019	FN	16.10.2019	AN	3.00
			CL	04.11.2019	AN	04.11.2019	AN	0.50
			CL	11.11.2019	FN	12.11.2019	AN	2.00
			CL	13.11.2019	FN	13.11.2019	AN	1.00
			CL	25.11.2019	FN	25.11.2019	AN	1.00
			CL	28.11.2019	FN	28.11.2019	FN	0.50
			VA	03.12.2019	FN	17.12.2019	AN	15.00

			DL	19.12.2019	FN	21.12.2019	AN	3.00
			DL	06.01.2020	FN	13.01.2020	AN	8.00
			CL	15.02.2020	AN	15.02.2020	AN	0.50
			CL	24.02.2020	FN	24.02.2020	AN	1.00
			CL	09.03.2020	FN	09.03.2020	AN	1.00
6	T.LAKSHMIBAI	Assistant Professor	RH	09.08.2019	FN	09.08.2019	AN	1.00
			CL	07.09.2019	FN	07.09.2019	AN	1.00
			CL	14.10.2019	FN	14.10.2019	AN	1.00
			VA	25.11.2019	FN	01.12.2019	AN	7.00
			VA	09.12.2019	FN	16.12.2019	AN	8.00
			ML	06.01.2020	FN	09.01.2020	AN	4.00
			CL	26.02.2020	FN	26.02.2020	FN	0.50
7	SARAVANA KUMAR.S.S	Assistant Professor	CL	26.08.2019	FN	26.08.2019	AN	1.00
			CL	03.09.2019	FN	04.09.2019	AN	2.00
			OD	14.10.2019	FN	16.10.2019	AN	3.00
			CL	28.10.2019	FN	28.10.2019	AN	1.00
			CL	27.11.2019	FN	27.11.2019	AN	1.00
			VA	29.11.2019	FN	06.12.2019	AN	8.00
			VA	12.12.2019	FN	18.12.2019	AN	7.00
			CL	10.01.2020	FN	10.01.2020	AN	1.00
			CL	13.01.2020	FN	13.01.2020	AN	1.00
			CL	13.02.2020	FN	14.02.2020	AN	2.00
8	K.SUGAPRIYA	Assistant Professor	RH	09.08.2019	FN	09.08.2019	AN	1.00
			CL	27.09.2019	FN	27.09.2019	AN	1.00
			CL	17.10.2019	FN	17.10.2019	AN	1.00
			CL	28.10.2019	FN	28.10.2019	AN	1.00
			CL	04.11.2019	FN	04.11.2019	AN	1.00
			CL	08.11.2019	AN	08.11.2019	AN	0.50
			VA	28.11.2019	FN	03.12.2019	AN	6.00
			VA	09.12.2019	FN	17.12.2019	AN	9.00
			CL	02.03.2020	FN	02.03.2020	AN	1.00
9	BOOVARAHAN	Assistant Professor	CL	30.07.2019	AN	30.07.2019	AN	0.50
			CL	30.08.2019	FN	30.08.2019	AN	1.00
			CL	04.09.2019	AN	04.09.2019	AN	0.50
			CL	14.10.2019	FN	16.10.2019	FN	2.50
			CL	29.10.2019	FN	30.10.2019	AN	2.00
			CL	28.10.2019	FN	28.10.2019	AN	1.00
			VA	02.12.2019	FN	16.12.2019	AN	15.00
			CL	04.02.2020	FN	04.02.2020	AN	1.00
10	G. SUBRAMANIYAN	Sr.Lab Instructor	RH	26.07.2019	FN	26.07.2019	AN	1.00
			CL	07.09.2019	FN	07.09.2019	AN	1.00
			CL	26.09.2019	FN	26.09.2019	AN	1.00
			CL	23.10.2019	AN	23.10.2019	AN	0.50
			OD	05.11.2019	FN	05.11.2019	AN	1.00
			CL	22.11.2019	FN	22.11.2019	AN	1.00
			CL	28.11.2019	FN	28.11.2019	AN	1.00
			CL	02.12.2019	FN	02.12.2019	AN	1.00

			CL	13.12.2019	FN	13.12.2019	AN	1.00
			CL	13.01.2020	FN	13.01.2020	AN	1.00
			CL	27.01.2020	FN	27.01.2020	AN	1.00
			CL	28.02.2020	FN	28.02.2020	FN	0.50
			CL	03.03.2020	AN	03.03.2020	AN	0.50
11	V.KOMALA	Lab Instructor	RH	31.07.2019	FN	31.07.2019	AN	1.00
			CL	05.08.2019	FN	05.08.2019	AN	1.00
			CL	23.09.2019	FN	23.09.2019	AN	1.00
			OD	14.10.2019	FN	16.10.2019	AN	3.00
			CL	25.11.2019	FN	25.11.2019	AN	1.00
			CL	25.02.2020	FN	25.02.2020	AN	1.00
12	K.VINAYAGAMOORTHY	Lab Instructor	CL	15.07.2019	FN	15.07.2019	AN	1.00
			CL	06.08.2019	AN	06.08.2019	AN	0.50
			CL	01.11.2019	AN	01.11.2019	AN	0.50
			CL	04.11.2019	FN	04.11.2019	AN	1.00
			EL	29.11.2019	FN	08.12.2019	AN	10.00
			CL	12.12.2019	FN	12.12.2019	AN	1.00
			CL	02.03.2020	FN	02.03.2020	FN	0.50
13	K.KOMATHY	Lab Instructor	CL	04.07.2019	AN	04.07.2019	AN	0.50
			CL	06.08.2019	AN	06.08.2019	AN	0.50
			CL	05.10.2019	FN	05.10.2019	AN	1.00
			CL	15.10.2019	AN	15.10.2019	AN	0.50
			CL	22.11.2019	AN	22.11.2019	AN	0.50
			CL	12.12.2019	AN	12.12.2019	AN	0.50
			ML	21.01.2020	FN	01.03.2020	AN	41.00
			CL	13.03.2020	FN	13.03.2020	AN	1.00

MAINTENANCE OF STAFF RECORDS

- All the odd & even semester subject syllabus, internal evaluation and assessments are completed and maintained in the personal LOG book of each staff.
- Student Mentoring Programme Record book is maintained by corresponding staff.

28.WORK ALLOTMENT DETAILS

Academic Year – 2019 -2020

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

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
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-		3	

.	2020 batch)			
104.	Students profile/ EIE & Mechatronics-(2017-2021 batch)		3	
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		

30.APPENDIX

APPENDIX - 1

SRI CHANDRASEKHARENDRA SARASWATHI

VISWA MAHAVIDYALAYA

SCSVMV

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

Accredited with "A" Grade by NAAC

Enathur, Kanchipuram - 631561

REGULATIONS FOR

B.E (Electronics & Instrumentation Engineering)

FULL TIME PROGRAMME

CHOICE BASED CREDIT SYSTEM

(For Candidates admitted from the year 2014 onwards)

DEPARTMENT OF

ELECTRONICS & INSTRUMENTATION ENGINEERING

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

CREDITS

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

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

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

DURATION OF THE PROGRAMME

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

REGISTRATION FOR COURSES

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

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

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

ASSESSMENT

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

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

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

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

The project work will be assessed for 40 marks by a Committee consisting of the Guide and the Head of the Department. The Head of the Department said be the Chairman. 60 marks are allotted for the project viva voce

examination at the end of the semester.

WITHDRAWAL FROM A COURSE

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

TEMPORARY BREAK OF STUDY

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

SUBSTITUTE ASSESMENT

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

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

ATTENDANCE REQUIREMENTS

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

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

PASSING AND DECLARATION OF EXAMINATION RESULTS

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

90 to 100 marks	-	Grade ‘S’
80 to 89 marks	-	Grade ‘A’
70 to 79 marks	-	Grade ‘B’
60 to 69 marks	-	Grade ‘C’
55 to 59 marks	-	Grade ‘D’
50 to 54 marks	-	Grade ‘E’
less than 50 marks	-	Grade ‘F’
Insufficient attendance	-	Grade ‘I’
Withdrawn from the course	-	Grade ‘W’

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

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

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

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

S – 10; A-9; B-8; C-7; D-6; E-5; F-0

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

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

GPA is the sum of the products of the number of credits of a course with the grade point scored in that course, taken over all the courses for the Year/Semester , divided by the sum of the number of credits for all courses taken in

that year/semester. CGPA is similarly calculated considering all the courses taken from the time of admission.

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

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

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

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

ELECTIVES

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

Examination Pattern for Sanskrit & Indian Culture paper

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

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

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

APPENDIX - 2

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
Accredited with "A" Grade by NAAC
Department of Electronics and Instrumentation Engineering

Fee Structure for Ph.D – July 2019/January 2020

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	-	-
Doctoral Committee fee	Rs.5,000	Rs.5,000	-
Special Fee	Rs.2000	Rs.2000	Rs.2000
Total Fees	Rs.12,000	Rs.9,000	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

APPENDIX - 3

PUBLICATIONS OF STAFF MEMBERS

ISSN: 2455-2631 © April 2020 IJSDR | Volume 5, Issue 4

A Review Paper on Electricity Generation from Solar Energy

K.Saraswathi

Assistant Professor
Department of EIE , SCSVMV, Enathur, Kanchipuram

***Abstract*: the Solar Energy is produced by the Sunlight is a non-vanishing renewable source of energy which is free from eco- friendly. Every hour enough sunlight energy reaches the earth to meet the world's energy demand for a whole year. In today's generation we needed Electricity every hour. This Solar Energy is generated by as per applications like industrial, commercial, and residential. It cans easily energy drawn from direct sunlight. So it is very efficiency & free environment pollution for surrounding. In this article, we have reviewed about the Solar Energy from Sunlight and discussed about their future trends and aspects. The article also tries to discussed working, solar panel types; emphasize the various applications and methods to promote the benefits of solar energy.**

***Keywords*: Renewable energy, Solar panel, Photovoltaic cell, Modelling of PV Panel, Solar Concrete Collector**

I. INTRODUCTION

Nowadays, due to the decreasing amount of renewable energy resources, the last ten years become more important for per watt cost of solar energy device. It is definitely set to become economical in the coming years and growing as better technology in terms of both cost and applications. Everyday earth receives sunlight above (1366W approx.) This is an unlimited source of energy which is available at no cost. The major benefit of solar energy over other conventional power generators is that the sunlight can be directly converted into solar energy with the use of smallest photovoltaic (PV) solar cells. There have been a large amount of research activities to combine the Sun's energy process by developing solar cells/panels/module with high converting form. the most advantages of solar energy is that it is free reachable to common people and available in large quantities of supply compared to that of the price of various fossil fuels and oils in the past ten years. Moreover, solar energy requires considerably lower manpower expenses over conventional energy production technology.

II. SOLAR ENERGY

Amount of energy in the form of heat and radiations called solar energy. Shown in Fig.1. It is radiant light and heat from sun that is natural source of energy using a range of ever changing and developing of technology such as solar thermal energy, solar architecture, solar heating, molten salt power plant and artificial photosynthesis. The large magnitude of solar power available makes highly appealing source of electricity. 30% (approx.) solar radiation is back to space while the rest is absorbed by ocean, clouds and land masses.

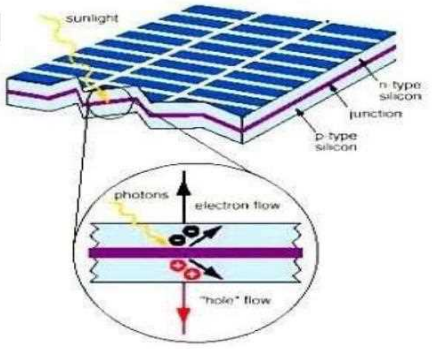


Figure 1 Internal of Reaction of Solar energy

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A Smart IoT and SCADA based Architecture for Oil and Gas Industry

K.Saraswathi, Assistant Professor, Dept of EIE , SCSVMV, Enathur, Kanchipuram

***Abstract*— Anomaly detection systems deployed for monitoring in oil and gas industries are mostly WSN based systems or SCADA systems which all suffer from noteworthy limitations. WSN based systems are not homogenous or incompatible systems. They lack coordinated communication and transparency among regions and processes. On the other hand, SCADA systems are expensive, inflexible, not scalable, and provide data with long delay. In this paper, a novel IoT based architecture is proposed for Oil and gas industries to make data collection from connected objects as simple, secure, robust, reliable and quick. Moreover, it is suggested that how this architecture can be applied to any of the three categories of operations, upstream, midstream and downstream. This can be achieved by deploying a set of IoT based smart objects (devices) and cloud based technologies in order to reduce complex configurations and device programming. Our proposed IoT architecture supports the functional and business requirements of upstream, midstream and downstream oil and gas value chain of geologists, drilling contractors, operators, and other oil field services. Using our proposed IoT architecture, inefficiencies and problems can be picked and sorted out sooner ultimately saving time and money and increasing business productivity.**

Keywords—Internet of Things based Architecture, Oil & Gas Operations, Reliable Communication, Smart Objects.

I. INTRODUCTION

The oil and gas industrial process starts after the crude oil is extracted from the grounds (oilfields) and to use it as a product it must go through the refining process. Once oil is pumped from the ground, it is then travelled through pipelines to tank batteries where a separator separates oil gas and water. The crude oil is then stored in storage tanks from where it is moved to refineries, other storage tanks, tanker ships or railcar through large diameter, long distance trunk lines. To push the oil in pipelines, the pump stations are installed at regular intervals along the pipelines from start till end. In order to overcome friction, changes in elevation and other pressure decreasing factors, pumps are used to initiate and maintain pressure in the trunk lines.

The oil and gas industry supply chain is divided into three main sectors/subdivisions, Upstream, Midstream and Downstream. The Upstream sector involves the exploration drilling and production. In the first step, potential underground or underwater crude oil, natural gas fields and potential hydrocarbon reserves are searched and explored and in the second step exploratory wells are drilled and then hydrocarbons are extracted from hydrocarbon reservoirs in oil and/or gas fields that recover and bring (produce) the crude oil and/or raw natural gas to the surface. The Midstream sector involves the transportation storage and marketing of crude oil or refined products of petroleum. Pipelines, rails, trucks, tanks etc. and other numerous transport systems are used for moving crude oil and extracted hydrocarbons from production and well sites to refineries or processing stations where hydrocarbon and oil processing is performed. The various refined products are then delivered to the downstream distributors The Downstream sector involves refining of petroleum crude oil and the processing and purifying of raw natural gas. At this stage, products derived from crude oil and natural gas are marketed and distributed. The products such as gasoline or petrol, kerosene, jet fuel, diesel oil, heating, oil, lubricants, waxes, asphalt, natural gas, and liquefied petroleum gas as well as hundreds of petrochemicals are provided to the consumers through downstream operations.

There are several critical challenges in the three sectors of oil and gas industry that are described as follows:

- Detecting physical presence at oil & gas pipeline, a leak of a pipeline, or tampering with a pipeline.
- Monitoring security, integrity, configuration, condition, disposition, orientation, location, contents, or surroundings, pressure variation of the oil & gas pipelines, tanks, wells and other assets used in the supply chain of oil & gas industry.
- Optimizing pumping operations, maintaining the pipes and wells, monitoring equipment failures, corrosion, erosion in a refinery and oil & gas leakage, minimizing risks to health and safety and monitoring and improving production performance with reduced costs.
- Detecting tuberculated pipeline sections partially closed or fully closed valve gates, variations in fluid homogeneity (e.g., air pockets within a water distribution network), pipe wall structural degradation and biofilm accumulation.

Supervisory Control and Data Acquisition (SCADA) systems [1] are not scalable due to low density in time and

Power Generation by Solar Energy Based with Improved Controller of Proportional Resonance

T. Sundar
Assistant Professor
Department of Electronics and Instrumentation Engineering
Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Enathur, Kanchipuram – 631561, Tamil Nadu, India

Abstract— Novel methodology in power generation using renewable source such as solar energy with an improved controller of proportional resonance applying interleaved buck boost converter and inverter is designed. The designed model is analyzed with the existing models and simulation is done. Introduction of parallel arrangement of buck boost converter and inverter is applied to reducing the rippling source. A closed loop model in the resonance controller is applied to get an optimal result. A parameters such as steady state error, setting time and rise time are done with the existing model and tabulated.

Keywords: Solar Energy, Improved Proportional Resonance, Parallel arrangement, Interleaved Buck Boost Converter, Proportional Integral Controller, Sim Power Systems

I. INTRODUCTION

In the recent years, the emphasis of power generation in the growing society structure is a necessary need because of the variations in the supplies and demands requirement of energy. The produced amount of the power cannot grasp sufficient level of the demand so as to balance the insufficiency condition present in the recent years based on this gap there is a necessity of designs to enhance the generation of power using some methodologies. The new technologies were used in the power generating system by designing various types of converters. The existing models do not support the maximum generation of power due to its complexity made in the design with controllers and in series connection of operators provides a low power generation.

Renewable energy process of power generation acts as a major key in the energy production. Mostly, industries and academic companies apply the source of renewable energy like the solar, wind and hydrogen as micro grid or nano grid process used in order to generate clean power energy. The power system energy generation uses alternatively the source of renewable energy, since the renewable energy sources like the solar and wind are non constant energy. To overcome the complexity present in energy generation many algorithms are introduced with the application of new developed power generating system with the use of photovoltaic device.

Design Modelling Control and Simulation of DC/DC Power Buck Converter. is given by Abualk, H [1]. A design of Modified P&O Maximum Power Point Tracking Method with Reduced Steady-State Oscillation and Improved Tracking Efficiency is given by Ahmad, J [2]. A Novel Two Switch Non-inverting Buck-Boost Converter based Maximum Power Point Tracking System is given by Ahmad, K.T [3]. Cascaded Control System Design for a Cuk Converter via Singular Perturbation Approach is given by Akumov, E.A [4]. Single and Interleaved Split-pi DC-DC Converter is given by Alzahrani, A [5]. Modeling and Simulation of Closed Loop Controlled Parallel Cascaded Buck Boost Converter Inverter Based Solar System is given by Sundar T [6]. Bond Graph Modelling and Dynamic Study of a Photovoltaic System Using MPPT Buck-Boost Converter is given by Andoura, R [7]. A single switch DC-DC converter for photo voltaic-battery system is given by Anooj, A.S [8]. Input current ripple cancelation by interleaving boost and Cuk DC-DC converter is given by Arias-Angulo, J.P [9]. Modelling & Simulation of Photovoltaic system to optimize the power output using Buck-Boost Converter is given by Arora, S [10]. Modeling and implementation of a new ZCS interleaved bidirectional buck-boost DC–DC converter for energy storage systems is given by Ayiapogu, P.K [11]. High voltage gain multiphase interleaved DC-DC converter for DC micro grid application using intelligent control is given by Babu, A.R [12]. An intelligent MPPT approach based on neural-network voltage estimator and fuzzy controller, applied to a stand-alone PV system, is given by Bendib, B [13].

The comparison of the controllers as applied to closed loop interleaved buck boost converter with Proportional Resonance controller was not covered in the above literature. The simulink model introduced has an application of closed loop in Proportional Resonance controller as an interleaved buck boost converter inverter based solar system.

The Block Diagram of Proportional Resonance Controller interleaved buck boost converter inverter based solar system as shown in Fig. 1. DC output of PV system is stepped up using ILBBC. The output of ILBBC is converted into AC using an inverter and the output of inverter is fed to the AC load. The output voltage of ILBBC is compared with the reference voltage and the error is applied to a Proportional Resonance controller.

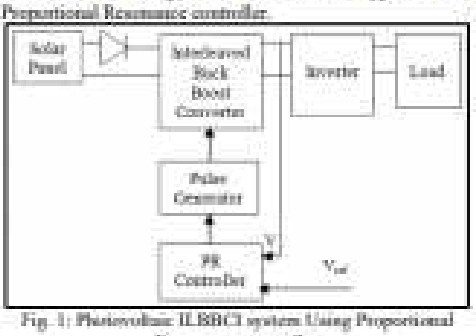

Fig. 1: Photovoltaic ILBBCI system Using Proportional Resonance controller

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Design of Interleaved Buck Boost Converter with Proportional Integral Derivative controller

T. Sundar
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Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya Enathur,Kanchipuram – 631561, Tamil Nadu, India

***Abstract*—** In real time application the power system generation is a challenging aspect. Generating power for all the appliances needs of day today life plays a vital role. To overcome this challenge renewable energy production system is applied for small scale industries. A design of photovoltaic power generating system with controller of integral derivative with proportional system is applied in interleaved buck boost converter. The novel design of Interleaved Buck Boost Converter with Proportional Integral Derivative controller is discussed with its methodology and simulation are done using model of closed loop methodology. A brief discussion of photovoltaic system and converters used in past days are discussed. The designed methodology of proportional integral derivative controller for interleaved buck boost converter is discussed and the simulation results are tabulated.

Keywords*— *Power generating system (PGS), Photovoltaic system (PVS), Design of converters, Interleaved Buck Boost Converter (IBBC); Maximum power point trackers (MPPT); Proportional Integral Derivative Controller (PIDC);

Introduction

In the recent years, the emphasis of power generation in the growing society structure is a necessary need because of the variations in the supplies and demands requirement of energy. The produced amount of the power cannot grasp sufficient level of the demand so as to balance the insufficiency condition present in the recent years based on this gap there is a necessity of designs to enhance the generation of power using some methodologies. The new technologies were used in the power generating system by designing various types of converters. The existing models do not support the maximum generation of power due to its complexity made in the design with controllers and in series connection of operations provides a low power generation.

In order to increase the efficiency of the generated power using 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.

Wang, C.M [1] designed a model of Analysis, design, and realization of a ZVT interleaved boost dc/dc converter with single ZVT Auxiliary circuit. Viswanatha, V [2] given a novel approach in Microcontroller based bidirectional buck-boost converter for photo-voltaic power plant. Wai, R.J [3] modelled an Adaptive fuzzy-neural-network design for voltage tracking control of a DC–DC boost converter. Wai, R.J [4] stated an improvement in Design of voltage tracking control for DC- DC boost converter via total sliding-mode technique.T.Sundar [5] applied a Modeling and Simulation of Closed Loop Controlled Parallel Cascaded Buck Boost Converter Inverter Based Solar System. Wang, Y.X [6] designed a model of Robust Time-Delay Control for the DC - DC Boost Converter', Weissbach, R.S [7] applied a non inverting buck-boost converter with reduced components using a microcontroller. Yang, B [8] modeled a Design and analysis of a grid connected photovoltaic power system. Yau, C [9] modelled an Isolated Buck-Boost DC/DC Converter for PV Grid-Connected System. Chen, A [10] designed a Soft switching circuit for interleaved boost converters. Yilmaz, U [11] proposed a PV system fuzzy logic MPPT method and PI control as a charge controller. Zhang, H [12] approached the A new MPPT algorithm based on ANN in solar PV systems. Zhao, Z [13] approached the A new Derivation, analysis, and implementation of a boost - buck converter - based high - efficiency PV inverter.

The application interleaved buck boost converter in the closed loop model in power generation using Proportional Integral Derivative was not applied in the discussed literature. By applying closed loop system in Proportional Integral Derivative as an interleaved buck boost converter in solar system is done and executed with a simulated result. The Figure 1 shown in below the block diagram of Proportional Integral Derivative Controller with interleaved buck boost converter for solar system.

An interleaved buck boost converter gives an output with step up photovoltaic system of DC output. The DC output is converter to AC load by using inverter. A comparison for the voltage reference of the output with the error of proportional integral derivative is made.

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

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***Abstract*— In a distillation column pressure is normally regulated by the vapor-condenser cooling water flow rate. If the pressure is high, increase the water flow to condense vapor faster. The reflux rate, feed rate, change in composition set point, boil-up rate are some of the factors that influences the pressure inside the column. The pressure also affects the speed of vapor through the column and internal reflux. The temperature inside the column and pressure are interdependent, so the interaction between these parameters are high. The objective is to control the bottom tray temperature (T_1) and column pressure, nominally by manipulating the reflux flow and boilup rate.**

Keywords*— *Gain Margin, Phase Margin, Reboiler heater power, reflux flow control.

I. Introduction

In general many process control industries like petro chemical, oil and gas, Cement plant, the physical process are Multi Input and Multi Output (MIMO). The MIMO process can be controlled by multivariable controllers. In multi-loop control, the MIMO processes are treated as a collection of multi-stage loops. The controller is designed and implemented on each loop by considering loop interactions. Distillation is a process that is used to separate pure liquid from a mixture of liquids. Distillation is commonly used inseparable part of the process industry for the refinement of the products. The column consists of trays, feed section, reboiler, reflux drum, condenser and pressure transmitter. The condenser collects the condensate and stored in the reflux drum. The RTDs are used to record the temperature from the bottom tray continuously with the help of temperature transmitters (4-20mA). The pressure transmitter (0-0.5 bar) is used to record the pressure developed at the bottom of the column. In the present research, Isopropyl alcohol and water mixture in the ratio of 30% and 70%, are considered for the distillation. The current article considers the mathematical model in form of transfer function for simulation. Here the manipulated variable (MV) are, the reflux flow rate (L) and reboiler power rate (Q). The temperature of bottom tray and pressure at the bottom of the column are the controlled variable (PV). Also the article presents the mathematical modeling for the pressure inside the column, simulated control algorithm using MATLAB, later a closed loop response is validated through real-time experimentation.

The article is organized as follows: Section 2 is system description, the modeling for the pressure inside the column and Section 3 presents decoupler design and Section 4 gives the expression for Multivariable PI controller. The simulation and implementation results of multivariable PI controller for tray temperature along with column pressure is presented in Section 5.

II. System Description

The valid linear model is determined by open loop experimentation, which is achieved by introducing incremental change in the reboiler heater power and reflux flow rate, and then recording the pressure developed in the column near the bottom tray. The reflux flow rate and reboiler power rate is used as manipulated variable. Bottom tray temperature T and Pressure developed P_b are the controllable variables and can be recorded. The open loop response is considered for identifying the model by keeping constant reflux at 20% and giving a step change in the heater from of 50% to 80% and determine the pressure developed in the column.

The second step is keeping heater as constant 70% and giving a step change in the reflux from 40% to 70% and the pressure induced inside the column is determined. Fig. (1a) and Fig. (1b) shows the corresponding experimental and model fit response. Modelling in the column is classified as fundamental modelling, empirical modelling and grey box modelling. Most of the process industries rely on empirical modelling, where the model is identified upon the collection analysis of experimental data.

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Patient Pulse Rate Monitoring System Using LabVIEW

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Abstract In this article, the authors have attempted to design a LabVIEW-based health monitoring system, which measures the human body temperature and continuous pulse monitoring with the help of ECG electrodes. The LabVIEW helps to create a user-friendly GUI which can graphically show the continuous pulse or heartbeat rate. This system is suitable where the doctor will monitor the patient's condition without being present physically. This system also helps the doctor by producing medical test and previous records of the patient when the doctor is present physically. This system uses various sensors, like, temperature sensor, heartbeat rate, and ECG electrodes. This system allows the doctor to diagnose the patient's condition and allows the doctor to suggest suitable treatment. The sensors are interfaced in LabVIEW to provide a graphical user interface-based monitoring systems.

Keywords ECG electrodes · Body mass index · Temperature sensor · Health monitoring · LabVIEW

Abbreviation

ECG	Electrocardiogram
PMS	Pulse monitoring system
DAQ	Data acquisition
VI	Virtual Instruments
GUI	Graphical user interface
BPM	Beats per minute

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IMPLEMENTATION OF HEALTH MONITORING SYSTEM USING RF ID

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ABSTRACT

In the last decade, Radio Frequency Identification (RFID) has become popular in so many fields from military to industry applications. RFID Tag stores individual information of its attached object and an RFID reader communicates with the tag in radio frequencies to identify the object. This object to be monitored may also be a human. In our work, RFID technology is applied in health care systems. The system supports wireless communication between the RFID tags and readers. Each patient available in the system is inherently sensors and wears a bracelet integrated with a unique tag, and the readers each including a wireless RFID reader card. In this study, an RFID-based patient-monitoring system has been considered. This system, which can be created by integrating a probable patient information system and proposed RFID application, is seen as a proper solution in cases when doctors want to have fast and automatic access to patient information and in particular when patients are not able to establish healthy communication. From this point on, after the information of patients who come to the hospital is recorded in the systems, a bracelet is worn by the patients which includes an RFID tag, and the relevant doctor who is assigned to the patients can read the tag in the bracelets with authorized access to an RFID card reader-supported PDA device, and, as a result of this definition, PDA device can reach the server and withdraw relevant health information from database and submit them to the doctor.

INTRODUCTION

Radio Frequency Identification (RFID) is a communication technology which allows for defining some unique characteristics of an object or a living being, usually its identification information, by relating it to a numeric serial number within a tag, and ensures that this number is conveyed by using radio waves. RFID provides a communication infra -structure at the radio frequencies between a special tag and reader device that can detect the tag, and allows for establishing communication between devices within the system without any physical contact, or even without seeing each other. In recent years, RFID technologies are used in a number of fields including military, logistics, education, production, security, and health. Due to its low cost, RFID technology is becoming widespread throughout the global world. There are different applications of using RFID technologies in health industry. When the significance of human health is considered, it is necessary that information is transferred in a correct and fast manner to rapidly perform the first aid to the patient. By using RFID technologies as integrated with patient information systems, it will easily be possible to identify patients with the RFI tags that they carry and to rapidly process the previously recorded

A Novel Approach to Accident Detection System using GSM

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Abstract— The increasing population of vehicles which necessitates the requirement of providing safety measures and also made to think about tracking of the vehicles always. It is useful in inventing technologies which supports the new trend walking along with our day to day life. The aim of this proposed system is to detect the road accidents and inform it to the relevant people like police control room or to the known persons of the people in vehicle under accident. Hence an embedded based system is designed to do this process automatically along with the location information obtained from GPS and to initiate call alert through GSM modem.

Keywords: Accident Detection, embedded system, GPS, GSM

I. INTRODUCTION

The requirement of providing safety measures is needed because of the increasing population of vehicles and also tracking of vehicles is most important. Therefore inventing technologies which supports the new trend walking along with our day to day life is essential. So there is lays, with the technical support of many in this system, the implementation for the design of accident detection system has been done. The ever growing expertise is provided to sum up the techniques to furnish the ideas. Therefore, this system also deals with the blend of electronics and its environment. The use of micro controller, speech synthesizer and various sensors make it sensible in the scenario of accident detection. Since, this system is meant for the accident detection, the use of Global Positioning System and Global System for Mobile communication makes it sensible.

The major drawback of the existing system is that the alert will be given by Short Messaging Service (Text message) only. This has been overcome by this system, the alert will be given as Voice Call as well as SMS to the nearby Police control/ Emergency service number/ the number which has been fed in the system

II. PROPOSED SYSTEM

A controller 89S52 is chosen, so that the accident occurrence is identified and all the automatic processes are initiated by the micro controller. A speech synthesizer IC, AR 9600 is used in order to transmit prerecorded voices in the police control room. Various sensors as mentioned in block diagram are used to detect the accident scenario.

III. TOOLS USED

A. Hardware Requirements

- WINDOWS XP with min of 1GB RAM and 80GB hard disk.
- Microcontroller 89S52.
- Flash Programmer Kit

B. Software Requirements

ASEM 5113 (Assembly Software).

- WILLAR DOWNLOADER software for burning the hex file;
- MATLAB 7.10 with image processing tool box
- Turbo-c software

C. Circuit Diagram

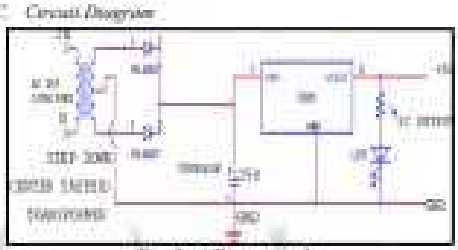

Fig. 3: a) Power supply

IV. CIRCUIT DIAGRAM

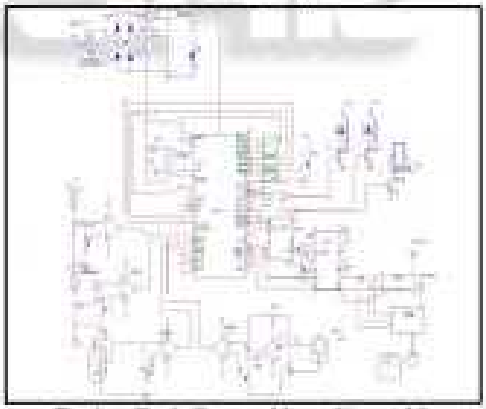

Fig. 4: a) Circuit diagram of the working model

A. Power Supply - Block Diagram

1) Step down transformer

Step down transformer converts a line voltage of 230 V into a voltage of 4.5 volts ac without any change in the frequency. It remains unchanged at 50 Hz. The current capability that it can withstand is about 500 mA. The

Design of Secure Wireless Health Care System using Labview

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At this present situation patient safety is a worldwide public health issue, particularly aged people who should be in constant monitoring and medication, special systems are needed to incorporate technology to manage the medical needs. Acquiring Patient's data (such as patient unique ID, name, blood group, drug allergies, drugs), reducing medical errors, enhancing efficiency is achieved using RF tags and RF reader by communication between wireless techniques. The RFID card is used to create secure access to the patient's personal data and medical records. The RFID technology has advantages such as reduced cost and time, reduced human resources and improves productivity. The patient ID can be accessed by the respective doctor by scanning the RFID card, after logging into doctor's account. The doctor can view and update patient's medical records and prescriptions. All medical information can be easily stored and retrieved online at any given point of time using the RF technology. It is easy to register during doctor's each visit.

The Sensors (Temperature, Pressure and Heart beat rate) are placed in contact to body for completely monitoring the parameters like temperature, pressure and heart beat rate of a patient. The sensors transmit the sensed information to the microcontroller. The micro controller in turn receives the information and transmits it through RF Transmitter. RF Transmitter and Receiver are used for conveying the parametric changes sensed from various sensors to the respective person (doctor) on monitoring side. This system, which can be created by integrating a probable patient information system and proposed RFID application, is seen as a proper solution in cases when doctors want to have fast and automatic access to patient information and in particular when patients are not able to establish healthy communication. In case of an emergency situation, the problem is conveyed immediately to a concerned person in monitoring room, informing about the situation of the patient. LabVIEW (Laboratory Virtual Instrumentation Engineering Workbench) is a platform and development environment for a visual programming language. LabVIEW is commonly used for data acquisition, instrument control, and industrial automation on a variety of platforms including Microsoft Windows, various flavors of UNIX, and Linux. Datas can be saved from LabVIEW and read by Excel. They should be saved and operating in the Windows environment and the use of Excel is to call the LabVIEW code and pass data back and forth between LabVIEW and Excel. The plot with Labview graphical representation helps for comparing the sensor outputs.

Keywords: RFID card, RFID reader, Sensors, LabVIEW, Health monitoring

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Smart Industries Using the Internet of Things

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ABSTRACT

In the present industrial conditions, automation has been limited to individual processes and machinery. It means that each machine has a separate controller that controls the operation of that particular machine. This kind of operation requires an operator or many operators to continuously monitor each machine at fixed intervals. While this method of operating might be suitable for small scale industries that have a small number of machines, in medium to large scale industries, this results in an increased requirement of the workforce. This, in turn, increases the production cost, and also with humans, there is a greater chance of error.Also, with this kind of system in place, there is little or no chance of monitoring these machines from a distance. Also, it is a tedious process to gather the operation's log data from each machine, organize them, and make a report to the higher management authorities.With the above-mentioned shortcomings, the operation of the individual machines becomes a hassle. Also, in times of an emergency or an accident, it becomes difficult to detect the particular machine responsible for the alert. To help overcome these shortcomings, this project, to automate the industry/factory floor is being proposed. This project is a system designed to monitor the sensor data and other parameters from different individual systems and display it on a single monitor used by a single operator. This allows to greatly reduce the workforce that is generally employed for this purpose on a factory floor. Also, this allows one user to monitor all the parameters of all the machinery from one location, and this helps in better decision making in case of an emergency.With this system in use, in addition to the efficiency of the control network, the managerial staff and other top-level executives can always keep an eye on the proceedings on the factory floor.

Keywords: IOT, Industrial Internet of things, Smart Industry, Industry 4.0, Cognitive systems, Smart manufacturing

1. Introduction

Industrial automation, in its simplest form, is the use of control systems, such as computers or robots, in addition to information technologies to control and handle different operations and components in an industry, to reduce the human workforce. In the flow of industrialization, it can be defined as the step after the mechanization of the industry. Earlier, the purpose of automation was to increase the overall productivity of the industry by working more hours than a human being and at a fraction of the cost required to hire a person. With the advancement of industrialization, and with the increase in the demand for various goods, the main focus of automation has shifted to increasing the quantity and quality of the manufactured goods.

1.1. Industry 4.0

Industry 4.0 is the subset of the fourth industrial revolution that concerns the industry. The fourth industrial revolution encompasses areas that are not normally classified as an industry, such as smart cities, for instance.Although the terms "industry 4.0" and "fourth industrial revolution" are often used interchangeably, "industry 4.0" factories have machines which are augmented with wireless connectivity and sensors, connected to a system that can visualize the entire production line and make decisions on its own.

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Color Responsive Robocam Using Image Processing

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ABSTRACT

Color detection of an object is one of the most efficiently used methods for sensing and following of an object. This process is done using image processing. This method employs the detection of moving object based on RGB color space and decides the action based on the color detected. A digital camera is used for image acquisition and image processing to detect the color, whereas a microcontroller-based robot is used for performing the assigned task. In certain places, where the human involvement in any work is risky, the use of such robot is feasible. The basic purpose of building this robot is to follow the appropriate object or instruction and to detect any immediate threat that the environment might pose. In order to develop the model, (x-bee) wireless module, along with Arduino module and image processing to recognize and classify the images, convert it into histograms containing hexadecimal data and matching it with the classification report from the datasets and presenting an understandable output.

Keywords: X-bee, Image processing, Color detection.

1. Introduction

Image processing is a technique for processing of images using mathematical operations. It makes use of any form of signal processing for which the input is an image, a series of images, or a video, e.g. a photograph or video frame. The output of image processing may be either an image or a set of characteristics or parameters related to the image that is extracted. Most image-processing techniques involve treating the image as a two-dimensional signal and applying standard signal-processing techniques to it. Images are also processed as three-dimensional signals where the third-dimension being time or the z-axis. Image processing usually refers to digital image processing but optical and analog image processing also are possible. The detection and classification of local structures (i.e. edges, corners, and T-Junctions) in color images is important for many applications such as image segmentation, image matching, object recognition, visual tracking in the fields of image processing and computer vision. There has been an increasing interest in the usage of robots in spaces where humans reside and safe navigation by effective sensing becomes an important issue. Here, we are describing a prototype to detect objects that enter in front of an autonomously navigating robot by analyzing images using a camera. Although moving object detection and obstacle avoidance have been actively studied in the fields of computer vision and intelligent robotics, analyzing the real time video of the object captured is still challenging. Keeping the above considerations in mind, a fast and simple masking method for color detection in a small search region specified is proposed.Color detection of an object is one of the most efficiently used methods for sensing and following an object. This process is carried out using image processing technique. This method employs the detection of moving object based on RGB color space and decides the action based on the color detected.A digital camera is used for image acquisition and image processing to detect the color whereas a microcontroller-based robot is used for performing the assigned task. The basic idea behind this project is to decrease the risk of human life and also effectively utilize man power in the industries.The concept of color detection is, as the name suggests, a part of image processing that involves differentiation between objects based on their color. For example, if we are processing an image with a number of colored objects, and we want to process only the most of a particular color, then color detection methods basically return a binary image where only the portions with relevant color are white, while the rest is black. This reduces the information of the image to only the relevant portions, which makes it easier to process for various operations.

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Multihop Cellular Network Using OFDMA – A Survey

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ABSTRACT

MCN have made much impact in future generation networks, thanks to its better throughput and network coverage. But, still there are issues just like the signal coverage in dead spot and hot spot which don't seem to be addressed and also to urge the high throughput. The uncharted interference becomes severe in mobile station near cell edges, which affects the network performance. Here we present a comparison on different resource allocation schemes and also a way to reduce the co channel interference between the users using Orthogonal Frequency Division Multiple Access (OFDMA) technique and also Intercell Interference Coordination (ICIC) is investigated.

Keywords:MCN, Relay Stations, SCN, OFDMA/TDD, Relay Zone, ART, CCI, Access Zone.

1. Introduction

Next generation cellular networks exploit orthogonal frequency division multiple access (OFDMA) technology for Multihop cellular networks (MCNs). In OFDMA, larger data has been split into several smaller data packets so transmitted through radio waves. In Multihop new relay transmitters were introduced inside base stations for communicating between user and mobile station to extend the network signal. The relay uses the shared power from the bottom station to scale back the work load within the base station, because of this distribution of power eventually. Due to these new relay strategies introduced within the cell structure, we are able to increase the coverage at cell edges within the other hand, OFDMA uses multiple access technique.

Orthogonal frequency division Multiplexing (OFDM) could be a most well-liked scheme for wide band electronic communication for both wireless and wired applications. Initially OFDM is employed for wired and general stationary wireless communications. However increasing the OFDM usage for highly cellular environment will make the users to research more. OFDM is nothing but a frequency division modulation scheme which uses digital multi-carrier modulation method. The massive data is split into several smaller data packets or channels then transmitted together with sub-carriers which are modulated with conventional modulation schemes like Quadrature AM at very low symbol rate within the same bandwidth. Generally, wireless cellular systems are multi user systems during which the radio resources are limited to bandwidth and also number of channels. These radio resources are used among multiple users so as to manage the transmission of information multiple access controls which are needed for both contentions based and non-contention based transmissions. The OFDMA allows different users to transmit the information over different portions of the broadband spectrum. This helps in reducing the co-channel interference between the users.

An extra radio resource for the booster amplifier plays a serious drawback for the Multihop Cellular Networks. Hence, a well-designed radio resource allocation schemes were needed for MCNs to eventually utilize the benefits of RSs by overcoming its disadvantages. In MCNs, RS also uses the identical spectrum as MSs or BSs, hence there could also be an opportunity of occurring co-channel interference to radio resource allocation schemes in MCNs. Keeping in mind, OFDMA system have to employ the frequency reaching to acquire good performance at cell edge and make ease for interference management. A reuse factor of three or 7 is employed in single-hop networks (SCNs) to scale back CCI, which ends up in low spectral efficiency. As we all known, the most feature of future cellular networks is its high

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ASRS Guided Vehicle based on Inventory Management Using Smart IOT

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ABSTRACT

The global increase in consumption of products such as automobiles and electronics have been pushing for more efficient and faster production facilities. This trend has given rise to technologies specifically for automation of production lines and inventory allocation. The problem however is that many on the job practices such as stock taking upon delivery and supplies to assembly lines cannot being easily automated. Thus we aim to partially automate the management of inventories and storage and retrieval of materials from assembly stations using a combination of automated guided vehicle and IoT technology.

Keywords: ASRS, IOT, AGV, LIDAR, Autonomous Mobile Robot, Blynk.

1. Introduction

The exponential increase in population size is not only demanding more from already strained production of natural resources but also on processed goods which are more often than not mass-produced. This demand has pushed production facilities towards smarter and more efficient manufacturing techniques but also the partial and occasionally full automation of their production line. The problem conversely is that no matter how efficient the production line its production will be mainly based how fast and efficiently the raw materials and produced goods are moved to and from the production lines as well as how they accounted for. This project thus aims to address these issues by designing a system that increases the delivery and retrieval of goods from and to the production line and tracks the usage and production of materials in real-time using technologies such as Wifi guided vehicle and Internet of Things. The retrieval of goods to and from the production lines are currently done either manually and with the aid of a human-controlled machine such as forklifts and delivery carts using the using a variety of optimization techniques such as JIT (Just-In-Time) manufacturing system(Toyota Production System), On-Demand-Manufacturing or the partial/full automation of production lines. The inventory management systems have been fully automated as of present but these systems are mainly used for warehousing models and not in production facilities. Examples of such systems include Amazon Smart Warehousing and JOI's fully automated warehouse amongst others.

JIT (Just-In-Time) system has been developed by Taiichi Ohno (1982), Executive Vice-President of the Toyota Motor Company and it spread to other companies of Japan in the late 1970s.JIT or Just-in-Time manufacturing is the minimization of labour, production time and raw materials by only producing goods as they are demanded. It the concept of delivering raw materials and producing products when there is a need. The main focus of this optimization technique is on minimizing the raw material size, work-in-process, and finished goods inventory with a focus on cutting inventory costs whilst helping to expose other more serious inefficiencies (such as poor maintenance, inspection, backlogs, etc.) in the manufacturing cycle. [1]. The other part in optimization a maximization of manufacturing is achieved through the automating of inventory system and production lines. Here is a more detailed look at these technologies solution providers. An on-demand automation solution works right out of the box. Where cloud-based platform means no on-premises server installation, no dedicated Wi-Fi, and no software to install. The Warehouse Management System (WMS) integration is not required for operation but can easily be implemented through our API's and SDKs as needed. [2]. with on-demand automation, robots can be easily re-purposed by the user with a simple-to-use, intuitive interface. These solutions can adapt and operate to a variety of warehouse environments, including logistics,

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5G Massive Multiple Input and Multiple Output System with Maximum Spectral Performance

N C A Boovarahan, K. Umapathy

Abstract: Massive MIMO is the presently maximum compelling sub-6 GHz physical-layer era for destiny wireless access. Excellent spectral overall performance finished through manner of spatial multiplexing of many terminals inside the equal time-frequency resource. The 5G structures are characterized through excessive transmission records prices, 1Gbps and above, so large bandwidth transmission is expected. The most vital objectives within the 5G wireless systems design is to deal with the excessive inter photograph interference (ISI) as a consequence of the high statistics fees, and using the accessible spectral bandwidth in resourceful way.MC-CDMA is categorized in to two methods that is OOFM and CDMA. Efficient useful resource allocation is the principle trouble within the development of fourth generation cellular communication systems. For utilizing the Internet and multimedia a maximum data fee is preferred, so in this paper the general performance of MC-CDMA systems the usage of Sylow theorem for grouping this is executed that's a spectrum allocation technique is presented. This paper particularly analyzes the presence of Additive white Gaussian Noise (AWGN) in MC-CDMA utilizing QPSK for special variety of subcarrier, exclusive vide sort of customers with the help of MATLAB tool. This paper shows the reduction in BER and power allocation among the MC-CDMA and massive-MIMO.

Keywords: Massive – MIMO, QPSK modulation, OFDM, Quality of service (QOS), Channel state information (CSI), MC-CDMA, Spectral Efficiency. .

I. INTRODUCTION

In this paper, Spectrum allocation method for MC-CDMA systems is estimated for LTE (Long Term Evolution) superior full-size and channel model is Rayleigh fading channel version. In Release 10, advanced LTE is standardized with the aid of way of 3GPP due to the fact the successor of LTE and Universal Mobile Telecommunication System (UMTS) [10]. The goals for downlink and uplink top statistics fee requirements had been set to 1Gbit/s and 500Mbit/s, respectively, even as working in a one hundred MHz spectrum allocation [1-3]. Improved set of rules for enhancing the throughput in MC-CDMA is proposed [8]. An Adaptive Channel Allocation [4-7] (ACA) algorithm is proposed for enhancing the throughput in which the sub channels are separated in two companies, and people agencies are allocated to the customers depending on required transmit energy. This is a contiguous channel allocation wherein channel fading function isn't always clearly exploited.

Various subcarrier [15-18]choice techniques are mentioned by manner of dividing the spectrum allocation techniques in broad classes i.e. Single channel allocation and group of channel allocation. The SCS-MC-CDMA device allocates to every person and selected a wide form of sub-vendors [16].

II. SUB CHANNEL SELECTION ALGORITHM & MAXIMUM THROUGHPUT

The main end result of our paper shows that the Eigen values of the correlation matrix of the effective channel can be properly approximated via sampling values of the autocorrelation of the time-varying transfer function. In this paper the main end result shows that through the time varying transfer function autocorrelation sampling values, the effective channel correlation matrix Eigen values can be approximated properly. To obtain such approximation and accuracy derived many bounds. The intended method provides good quality on the basis of balanced tradeoff amongst estimated signal size loss, accuracy, matrix diagonalization. Though the estimation of the proof is sensitive, and this causes no phenomenon to professional mainly in pseudo differential operator principle.

If one thinks approximately Lagrange's Theorem, and its implications, things are apparent. First of all, the crucial component a part of the proof of Lagrange's Theorem, is to apply the decomposition of C into the left cosets of J in C and to prove that every coset has the identical duration (mainly the cardinality of J). Secondly, in terms of applications, the hassle of classifying subgroups of a set C turns into thinking about the high factorization of the order. As the trouble of finding regular subgroups is lots harder than the hassle of locating subgroups, the plans is to pick out a high p dividing the order of C and look for regular subgroups of order a electricity of p. The Sylow Theorems regularly play a critical role in locating all companies of a wonderful order. For instance, all organizations of order pq, or all organizations of order p^n, in which p and q are primes can be placed on this way.

A. Maximum Throughput Allocation

We must make perfect use of the assets to enhance the throughput that is by transmitted and channels. The multi-user MC-CDMA [12 -14] method in downlink transmission for the particular transmitted energy at base station most viable quantity of channels is allotted to the users to enhance the throughput and also retaining the less BER. Enhancement of throughput hassle is derived as following optimization of c*g

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A Survey for Improvisation MC-CDMA Systems to Massive MIMO Systems

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ABSTRACT

Proficient Channel assignment is one of the significant issue in the most recent age portable correspondence Systems. An exceptionally high information rate is generally needed for the utilization of mixed media and Internet, So in this paper overviews the exhibition of Adaptive Channel Allocation (ACA) calculation and allots the channels to clients for high information rates in the downlink transmission of MC-CDMA Systems. For the investigation autoregressive model of related Rayleigh channel measures is utilized. Execution of the ACA calculation is assessed with MRC,EGC,ZFC consolidating plans.

Keywords:MC-CDMA, ACA,BER, Throughput.

1. Introduction

In this paper range assignment strategy for MC-CDMA systems is assessed for the long time advancement and Rayleigh blurring channel is utilized for the assessment. The objectives for downlink set to 1Gbit/s and uplink information rate necessities were set to 500Mbit/s. Before hand throughput procedure is expanded by improved calculation [1]. Significantly channel blurring isn't same for various subcarriers with the goal that element has been created for allotting the subcarriers to the clients as per the immediate channel state data (CSI) in [1] and [2]. From the reference [2] ACA is proposed for expanding throughput in which subchannels are partitioned into gatherings , these gatherings are distributed relying on the client necessity. What's more, in that paper channel blurring highlight isn't completely evolved.

In [3] other subcarrier determination methods are talked about by isolating the range distribution procedures by two different ways that is single channel designation and gathering channel portion. In [5] chose number of sub transporters is relegated to every client, In this paper the idea is to allot every client just the same number of sub-transporters as are expected to help the client's information rate. For expansion of each channel for sub-carrier determination the intricacy of the framework increments. Channel state data alludes to measure of channel blurring client encounters on specific channel. A few plans have been proposed for sub transporter choice as per CSI which incorporates, choosing the sub transporter requiring least measure of communicate power on it. In this paper how to require least measure of send power is required for choosing a subcarrier is talked about. For development in BER execution, high information throughput is a multi-cell condition, decreasing the devour high force at the versatile terminal , and results in high range effectiveness these outcomes must appeared by a fitting sub-transporter choice strategy.

For the given force, throughput can be expanded by allocating greatest number of sub transporters to the clients. The examination strategy for sub channel distribution to the client for the given send power in the downlink transmission is done and from the CSI every client will require an alternate communicate power on each channel, utilizing this trademark gathering of channels will be assigned to clients. In the current technique for bunch distribution to the clients has been changed which will bring about creating with ACA algorithm [2].

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Adaptive Sub-Channel Algorithm Based Spectrum Allocation in MC-CDMA Systems

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ABSTRACT

Multicarrier direct sequence CDMA (MC-DS-CDMA) transmitter spreads the sequential to resemble changed over information streams in time by utilizing a spreading code, to improve the BER execution of the System. In this paper by shifting the quantity of pieces to the particular channels in the scope of SNR. With the forecast of channel conditions on the hour of next schedule opening, all these work done on the range of non touching in portion plot by utilizing versatile Adaptive sub channel grouping (ASG) balance plans for the sub transporters with keeping up BER to improve throughput. By dissecting the LTE guidelines of 3GPP applicant of 4G with two exchanging levels of balances for example BPSK and 128 QAM. expanding the quantity of clients beginning from 64 QAM to QPSK. For the reproduction Rayleigh channel and auto regression model utilized. improving the system throughput when contrasted with touching plans of gathering arrangement. The conclusion of this paper shows crit improvement of non spreading range distribution scenario is superior to the touching range portion plot.

Keywords: MC DS CDMA, QAM, ASG, Rayleigh fading, CSI, Maximum throughput.

1. Introduction

To provide required high data rates with less inter symbol interference it is advantageous to use multi –carrier cellular systems rather than single carrier cellular systems. The MC-DS-CDMA signal is generated by serial-to parallel converting data symbols into sub-streams and applying DSCDMA on each individual sub-stream. Thus, with MC-DSCDMA, each data symbol is spread in bandwidth within its sub-channel, but in contrast to MCCDMA or DS-CDMA not over the whole transmission bandwidth. An MC-DSCDMA system with one sub-carrier is identical to a singlecarrier DS-CDMA system. MC-DS-CDMA systems can be distinguished in systems where the sub-channels are narrowband and the fading per sub-channel appears flat and in systems with broadband sub-channels where the fading is frequency-selective per sub-channel. The fading over the whole transmission bandwidth can be frequency-selective in both cases. The complexity of the receiver with flat fading per sub-channel is comparable to that of an MC-CDMA receiver, when OFDM is assumed for multicarrier modulation. As soon as the fading per sub-channel is frequency-selective and ISI occurs, more complex detectors have to be applied. MC-DS-CDMA is of special interest for the asynchronous uplink of mobile radio systems, due to its close relation to asynchronous single-carrier DS-CDMA systems. On one hand, a synchronization of users can be avoided; however, on the other hand, the spectral efficiency of the system decreases due to asynchronism. There are many techniques of allocation of these sub carriers to the users. Instead of allocating all subcarriers to all users, these subcarriers may be divided into groups and then these groups can be assigned to the users. Channel fading is different at different sub carriers, this feature can be exploited for allocating the subcarriers to the users according to the instantaneous channel state information (CSI). An appropriate sub–carrier selection technique results in high spectrum efficiency, reduction in high power consumption at the mobile terminal, high data throughput in a multicell environment, improvement in BER performance, reduction in signal processing at the mobile terminal. For the given power, throughput can be maximized by allocating maximum number of subcarriers to the users. 2. Related Work Srinivas Karedla et. al.,[1] proposed a resource allocation scheme called Modified Load Matrix (MLM) is proposed for Multi - Carrier –DS-CDMA systems Load matrix (LM) is a resource allocation approach used in single carrier mobile communication systems in a multi-cell scenario to reduce the interference (both inter-cell and intra –cell) to increase the system throughput decrease the packet delay PATHAN MOHD BASHA KHAN et. al., [2] proposed an adaptive multi-user resource allocation for the downlink transmission of a multi cluster tactical multicarrier DS CDMA network. The goal is to maximize the sum packet throughput, subject to transmit power constraints. Since the objective function turns out to be nonconvex and non differentiable, here it proposes a

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DESIGN OF DOUBLE SQUARE ARRAY MICROSTRIP ANTENNA FOR WIRELESS COMMUNICATION

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Abstract - In the modern world the communication plays a major role for the information transfer, in such a way that, the microstrip patch antenna can be designed for many wireless communications. The present paper deals with a square array antenna which can be operated in single band and it can be designed and simulated to get good return loss for various substrate values. The resonance frequency of the proposed antenna is 3.4GHz at the return loss of 25.5dB in negative. From the results obtained, it is found that it gives a good return loss when compared to the other single band microstip antenna design. The designed square array antenna is therefore suitable for Radio navigation and wireless applications.
Keywords: Microstrip patch, wireless commn, square array.

I. INTRODUCTION

An wireless communication system is a high data rate system and it operates in the range of Ultra Wide Band 3.1 to 10.6GHz.The Microstrip antenna contains the dielectric substrate, the printed conducting strip on upper surface, while the lower surface of the substrate is made by a conducting ground plane. S. L. S. Yang investigated the single feed MPA gives a good impedance matching[10]. Such antenna sometimes called a printed antenna because the fabrication procedure is similar to that of a printed circuit board. Bongani P. Nxumalo found the millimeter wave antenna for5G applications [4]. The Microstrip antennas can be designed like a very thin Planar printed antennas and it is very useful elements for communication applications.

The disadvantage of the antenna is, higher ohmic losses and low efficiency because of surface waves etc. For the last few decades, researchers have been using many designs to overcome these problems and they succeeded in many designs, with their novel designs and new findings. In the proposed antenna design the feeding technique for excitation to the antenna is Microstrip line feeding method. This method is very simple to design and fabricate, but the patch antenna provides the narrow bandwidth, to get the wide bandwidth a slot can be introduced. A slot can generate single band characteristics in rectangular patch antenna and it gives the good radiation pattern.