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

DEPARTMENT PROFILE

2018-19

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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

DEPARTMENT PROFILE 2018-19

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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.

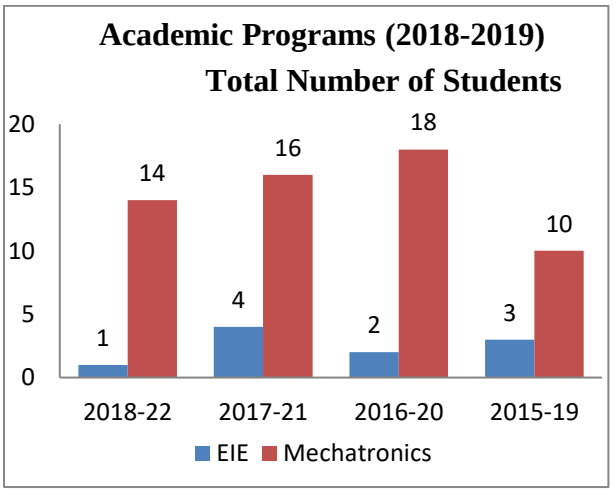
- **Program Educational Objectives**

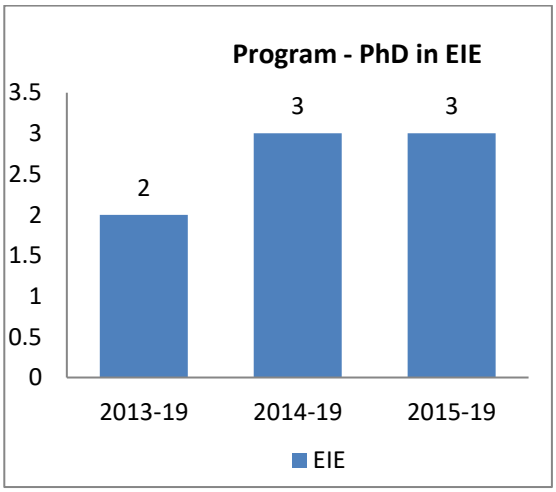
1. To design, develop product and application with multidisciplinary engineering expertise.
2. To use latest engineering tools to enhance the productivity in the field of automation.
3. Complex problem solving skill to innovate and research by applying multi-disciplinary environment (mechanical, electrical,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

4. ACADEMIC PROGRAMS (2018-2019)

PROGRAM	SANCTIONED STRENGTH	YEAR	BATCH	TOTAL NUMBER OF STUDENTS STRENGTH
UG EIE	30	I	2018-22	01
		II	2017-21	04
		III	2016-20	02
		IV	2015-19	03
UG MECHATRONICS	30	I	2018-22	14
		II	2017-21	16
		III	2016-20	18
		IV	2015-19	10
RESEARCH (Ph.D in EIE dept)			2013-19	02
			2014-19	03
			2015-19	03

ACADEMIC PROGRAMS (2018-2019)





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	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	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
	Engg. Physics	Engg. 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 Engg.	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-2***	M-3***	Strength of Materials and Fluid Mechanics	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	Engineering Mechanics	Materials Engineering	Control Systems	Principles of Management and Professional Ethics	PEC 4**	OEC 4*
	Programming for Problem Solving		Manufacturing Technology for Mechatronics	Thermodynamics	Technical Programming Language	Microprocessors and Microcontrollers	PEC 5**	
			Sensors & Actuators	Linear Integrated Circuits	Fluid Power Systems	CAD & CAM	OEC 3*	
			Object Oriented Programming Using C++	Digital Electronics	Power Electronics and Industrial Drives			
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	Mini Project & Innovative Design Lab		

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

SEMESTER WISE 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 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	Mathematics 3	3	1	-	4
2	ESC	Object Oriented Programming using C++	3	-	-	3
3	ESC	Object Oriented Programming using C++ Lab	-	-	3	2
4	PCC	Electronic Devices and Circuits	3	-	-	3
5	PCC	Manufacturing Technology for Mechatronics	2	1	-	3
6	PCC	Engineering Mechanics	3	-	-	3
7	PCC	Sensors and Actuators	3	-	-	3
8	PCC	Electronic Devices and Circuits Lab	-	-	3	2
9	PCC	Manufacturing Process 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	Industrial Instrumentation	3	-	-	3
2	PCC	Thermal Engineering Lab	-	-	3	2
3	PCC	Strength of Materials and Fluid Mechanics	3	-	-	3
4	PCC	Materials Engineering	3	-	-	3
5	PCC	Thermodynamics	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	Strength of Materials and Fluid Mechanics Lab	-	-	3	2
10	MC*	Soft Skills -2	-	-	-	1*
		TOTAL	18	-	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	Machine Drawing 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	Fluid Power Systems	3	-	-	3
8	PCC	Fluid Power Control 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	CAD and CAM	2	1	-	3
6	PCC	Microprocessor and Microcontroller Lab	-	-	3	2
7	PCC	CAD and CAM Lab	-	-	3	2
8	PCC	Mini Project /Innovative Design Lab	-	-	-	2
9	MC*	Soft Skills -4	-	-	-	1*
		TOTAL	14	1	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 Mechatronics 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	Theory of Machines	3	-	-	3
2		Metrology and Measurements	3	-	-	3
3		Refrigeration and Air Conditioning	3	-	-	3
4		Internal Combustion Engines	3	-	-	3
5		Machine Design	3	-	-	3
6		Finite Element Analysis	3	-	-	3
7		Design of Jigs and Fixtures	3	-	-	3
8		Rapid Manufacturing Technology	3	-	-	3
9		CIM	3	-	-	3
10		Process Planning and Cost Estimation	3	-	-	3
11		Mechanical Vibration and noise control	3	-	-	3
12		Machine Vision	3	-	-	3
13		Autotronics	3	-	-	3
14		Design of Mechatronics Systems	3	-	-	3
15		Robotics and Automation	3	-	-	3
16		Process Control Instrumentation	3	-	-	3
17		Programmable Logic Controller	3	-	-	3
18		Power Plant Engineering	3	-	-	3
19		Aircraft Engineering	3	-	-	3
20		Embedded Systems	3	-	-	3
21		VLSI Design	3	-	-	3
22		Optimal Control	3	-	-	3
23		MEMS and Nano Technology	3	-	-	3

OPEN ELECTIVE COURSES

S.No	Subject Category	Name of the Subject	L	T	P	C
1	OEC	Operation Research	3	-	-	3
2		Analytical Instrumentation	3	-	-	3
3		Energy Management and Industrial	3	-	-	3
4		Bionic Technology	3	-	-	3
5		Virtual Instrumentation	3	-	-	3
6		Artificial Intelligence and Neural	3	-	-	3
7		Matlab and Scilab Programming	3	-	-	3
8		Fuzzy Logic Control and Genetic	3	-	-	3
9		Biomedical Instrumentation	3	-	-	3
10		Green Engineering	3	-	-	3
11		Disaster Management	3	-	-	3
12		Renewable Energy Resources	3	-	-	3
13		Big Data Analysis	3	-	-	3
14		Cryptography and Network Security	3	-	-	3
15		Electric Vehicle Technology	3	-	-	3
16		Radar and Navigational Aids	3	-	-	3
17		IoT in Manufacturing	3	-	-	3
18		Marine Instrumentation and Under water Technology	3	-	-	3
19		Energy Harvesting Technologies	3	-	-	3

6. ADMISSION DETAILS

I YEAR-EIE (2018-2022 BATCH)

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

II 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

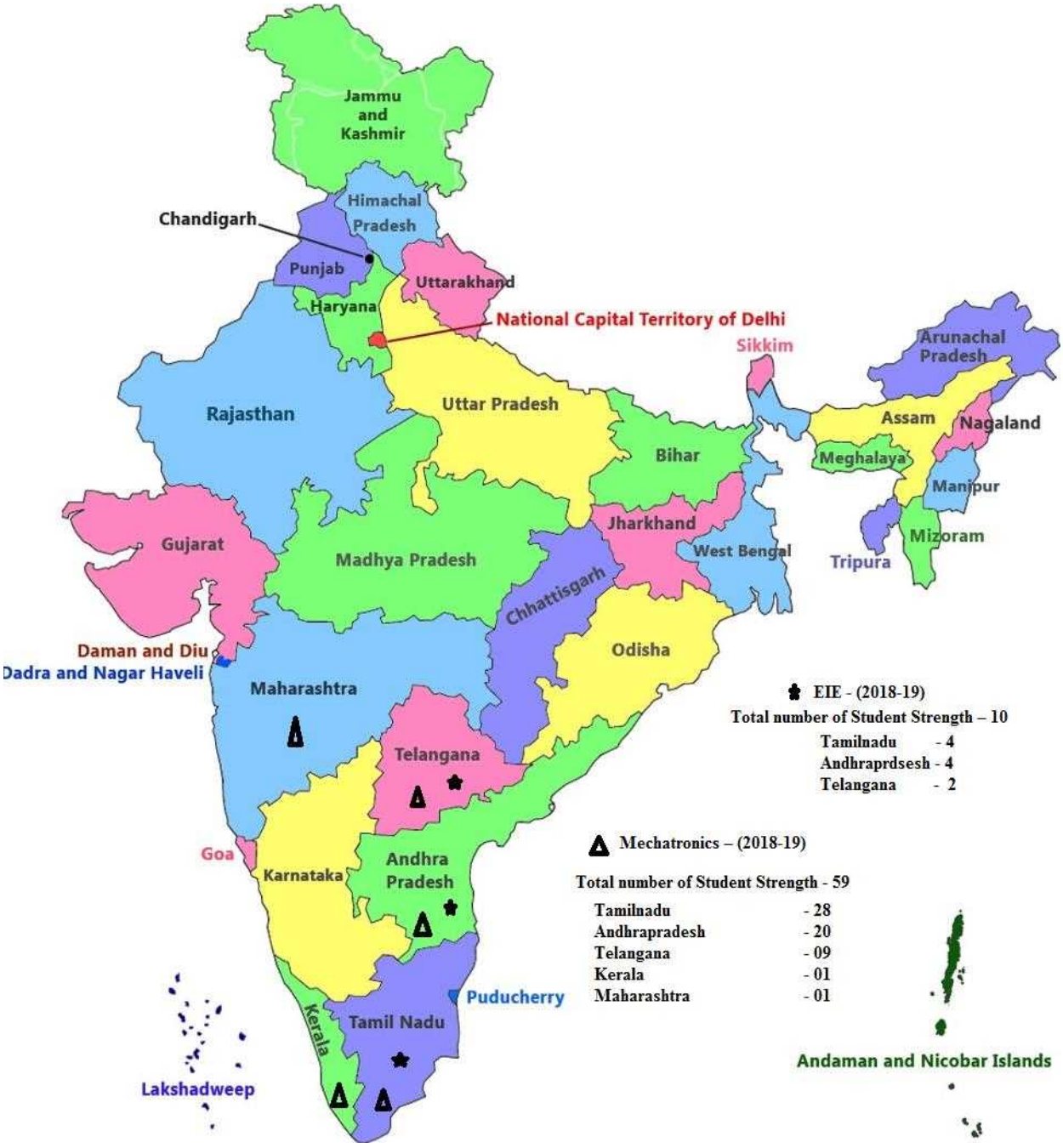
III YEAR EIE (2016-2020 Batch)

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

IV YEAR-EIE (2015-2019 BATCH)

S.NO	REG.NO	STUDENT NAME	GENDER WISE	REGION - WIDE
1	11159G002	JAYANTH SARANGAN	MALE	TELANGANA
2	11159G003	KRISHNAN A.R	MALE	TAMILNADU
3	11159G004	M PRAVEEN	MALE	ANDRAPRADESH

EIE - (In the academic year 2018-19)
(TOTAL NUMBER OF STUDENTS including I, II, III & IV Years)
EIE – 10
MECHATRONICS - 59



ADMISSION DETAILS

I 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

II 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

III 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

IV YEAR MECHATRONICS (2015-2019 Batch)

S.NO	REG.NO	STUDENT NAME	GENDER WISE	REGION – WIDE
1	11159H001	K K AKASH KRISHNA	MALE	TAMILNADU
2	11159H002	D APARNA	FEMALE	TAMILNADU
3	11159H003	CHEEDELLA BHARADWAJ	MALE	TELANGANA
4	11159H004	C S HARI HARA GANESH	MALE	TAMILNADU
5	11159H005	K KARTHIK	MALE	TAMILNADU
6	11159H006	LINGAM SAI VINNETH	MALE	ANDRAPRADESH
7	11159H007	MULUKUTTLA VISHNU SREEKAR	MALE	TELANGANA
8	11159H008	RAKESH.J	MALE	TAMILNADU
9	11159H009	RAMESH PAVAN	MALE	ANDRAPRADESH
10	11159H010	K SIVA SUBBRAMANIAN	MALE	TAMILNADU
11	11159H011	RISHI DHARAN.N	MALE	TAMILNADU

7. FEES STRUCTURE

2018-2019
50% Scholarship (PCM>=90) without Hostel

FEE	I-Year			II- Year		III-Year		IV-Year	
FEE	At the Time of Admission	I – Sem (June 2018)	II – Sem (Dec 2018)	III – Sem (June 2019)	IV-Sem (Dec 2019)	V – Sem (June 2020)	VI-Sem (Dec 2020)	VII – Sem (June 2021)	VIII-Sem (Dec 2021)
Tuition Fee	25000	30000	30000	30000	30000	30000	30000	30000	30000
With out Hostel	85000			60000		60000		60000	
For 4 Years (With Out Hostel)						265000			

50% Scholarship (PCM>=90) with Hostel (265000 + 238000)

FEE	I-Year			II- Year		III-Year		IV-Year	
FEE	At the Time of Admission	I – Sem (June 2018)	II – Sem (Dec 2018)	III – Sem (June 2019)	IV-Sem (Dec 2019)	V – Sem (June 2020)	VI-Sem (Dec 2020)	VII – Sem (June 2021)	VIII-Sem (Dec 2021)
Tuition Fee	25000	30000	30000	30000	30000	30000	30000	30000	30000
Hostel Fee	22000	19500	19500	29500	29500	29500	29500	29500	29500
Total	47000	49500	49500	59500	59500	59500	59500	59500	59500
With Hostel	146000			119000		119000		119000	
For 4 Years (With Hostel)						503000			

FEES STRUCTURE

2018-2019

35% Scholarship (PCM>=85 and < 90) without Hostel

FEE	I-Year			II- Year		III-Year		IV-Year	
FEE	At the Time of Admission	I – Sem (June 2018)	II – Sem (Dec 2018)	III – Sem (June 2019)	IV- Sem (Dec 2019)	V – Sem (June 2020)	VI- Sem (Dec 2020)	VII – Sem (June 2021)	VIII- Sem (Dec 2021)
Tution Fee	25000	39000	39000	39000	39000	39000	39000	39000	39000
Without Hostel	103000			78000		78000		78000	
For 4 Years (With Out Hostel)						337000			

35% Scholarship (PCM>=85 and <90) without Hostel (337000 + 238000)

FEE	I-Year			II- Year		III-Year		IV-Year	
FEE	At the Time of Admission	I – Sem (June 2018)	II – Sem (Dec 2018)	III – Sem (June 2019)	IV- Sem (Dec 2019)	V – Sem (June 2020)	VI- Sem (Dec 2020)	VII – Sem (June 2021)	VIII- Sem (Dec 2021)
Tution Fee	25000	39000	39000	39000	39000	39000	39000	39000	39000
Hostel Fee	22000	19500	19500	29500	29500	29500	29500	29500	29500
Total	47000	58500	58500	68500	68500	68500	68500	68500	68500
With Hostel	164000			137000		137000		137000	
For 4 Years (With Hostel)						575000			

FEES STRUCTURE

2018-2019
25% Scholarship (PCM>=80 and < 85) without Hostel

FEE	I-Year			II- Year		III-Year		IV-Year	
FEE	At the Time of Admission	I – Sem (June 2018)	II – Sem (Dec 2018)	III – Sem (June 2019)	IV- Sem (Dec 2019)	V – Sem (June 2020)	VI- Sem (Dec 2020)	VII – Sem (June 2021)	VIII- Sem (Dec 2021)
Tution Fee	25000	45000	45000	45000	45000	45000	45000	45000	45000
Without Hostel	115000			90000		90000		90000	
For 4 Years (With Out Hostel)						385000			

25% Scholarship (PCM>=80 and <85) without Hostel (385000 + 238000)

FEE	I-Year			II- Year		III-Year		IV-Year	
FEE	At the Time of Admission	I – Sem (June 2018)	II – Sem (Dec 2018)	III – Sem (June 2019)	IV- Sem (Dec 2019)	V – Sem (June 2020)	VI- Sem (Dec 2020)	VII – Sem (June 2021)	VIII- Sem (Dec 2021)
Tution Fee	25000	45000	45000	45000	45000	45000	45000	45000	45000
Hostel Fee	22000	19500	19500	29500	29500	29500	29500	29500	29500
Total	47000	64500	64500	74500	74500	74500	74500	74500	74500
With Hostel	176000			149000		149000		149000	
For 4 Years (With Hostel)						623000			

FEES STRUCTURE

2018-2019
Without Scholarship (PCM<80) without Hostel

FEE	I-Year			II- Year		III-Year		IV-Year	
FEE	At the Time of Admission	I – Sem (June 2018)	II – Sem (Dec 2018)	III – Sem (June 2019)	IV- Sem (Dec 2019)	V – Sem (June 2020)	VI- Sem (Dec 2020)	VII – Sem (June 2021)	VIII- Sem (Dec 2021)
Tution Fee	25000	60000	60000	60000	60000	60000	60000	60000	60000
Without Hostel	145000			120000		120000		120000	
For 4 Years (With Out Hostel)						505000			

Without Scholarship (PCM< 80) without Hostel (505000 + 238000)

FEE	I-Year			II- Year		III-Year		IV-Year	
FEE	At the Time of Admission	I – Sem (June 2018)	II – Sem (Dec 2018)	III – Sem (June 2019)	IV- Sem (Dec 2019)	V – Sem (June 2020)	VI- Sem (Dec 2020)	VII – Sem (June 2021)	VIII- Sem (Dec 2021)
Tution Fee	25000	60000	60000	60000	60000	60000	60000	60000	60000
Hostel Fee	22000	19500	19500	29500	29500	29500	29500	29500	29500
Total	47000	79500	79500	89500	89500	89500	89500	89500	89500
With Hostel	206000			179000		179000		179000	
For 4 Years (With Hostel)						743000			

FEES STRUCTURE

2018-2019

Course	At the time of admission	Second Sem on wards	No. of Semester	Fee	Grant Total
	I	II	III	IV=II*III	I+IV
B.E – EIE & Mechatronics (Regular)	85000	60000	7	420000	505000
B.E – EIE & Mechatronics (Lateral Entry)	85000	60000	5	300000	385000
B.E – EIE (Part Time)	31500	20000	6	120000	151000
M.E- E&C (Part Time)	40500	24000	5	120000	160500

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA
SCSVMV
Accredited with "A" grade by NAAC
Enathur, Kanchipuram - 631 561

Date: 04.05.2018

CIRCULAR No. 087 / 2017 - 2018

Sub: Payment of Term fees for academic session 2018 - 2019

****

he following are the details of the Term Fees and other fees to be paid by the students for the **dd Semester** for the academic year 2018 - 2019.

EGULAR

Courses	Year/ Sem	Year of admission	Without Scholarship	SCHOLARSHIP			
				10%	25%	35%	50%
/ B.TECH.(IT) L BRANCHES	II / III	2017-18	60000	54000	45000	39000	30000

ıst date for payment of fees

Without fine : 31.05.2018
With fine of Rs.1000/- : 15.06.2018

he fee may be paid by Demand Draft in favour of **THE REGISTRAR, SCSVMV** payable at hennai and also be paid online through the link provided in the SCSVMV website portal. he link will be opened till 15.06.2018 after that no payment will be entertained.

REGISTRAR
REGISTRAR
S.C.S.V.M.V
ENATHUR, KANCHIPURAM

: to:
Finance Officer
Dean (E & T)
All HODs
The Branch Manager, Indian Bank, SCSVMV UNIVERSITY BRANCH, Enathur.
Notice Board
File

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA
SCSVMV
Accredited with "A" grade by NAAC
Enathur, Kanchipuram - 631 561

CIRCULAR No.84 / 2017- 2018

Date: 04.05.2018

Sub: Payment of Term fees for academic session 2018 - 2019

****

The following are the details of the Term Fees and other fees to be paid by the students for the **Odd Semester** for the academic year 2018 - 2019.

B.E.(REGULAR)

Courses / Branch	Year of admission	Year	Sem	Term Fee	Professional Training Fees	Development Fee	Total
B.E.(ECE & MECH	2015-16	IV	VII	51500	1500	5000	58000
B.E.(CSE)	2015-16	IV	VII	49625	1500	5000	56125
E. (EEE,Civil, E.I.E, & Mechatronics)	2015-16	IV	VII	49125	1500	3000	53625
.E. / B.TECH.(IT) ALL BRANCHS	2016-17	III	V	56500	-	-	56500

B.E.(LATERAL ENTRY)

Courses	Year of admission	Year	Sem	Term Fee	Professional Training Fees	Development Fee	Total
E. / B.TECH.(IT) LL BRANCHS	2016-17	IV	VII	56500	-	-	56500
E. / B.TECH.(IT) LL BRANCHS	2017-18	III	V	60000	-	-	60000

Last date for payment of fees

1. Without fine : 31.05.2018
2. With fine of Rs.1000/- : 15.06.2018

The fee may be paid by Demand Draft in favour of **THE REGISTRAR, SCSVMV** payable at Chennai and also be paid online through the link provided in the SCSVMV website portal. The link will be opened till 15.06.2018 after that no payment will be entertained.

REGISTRAR
REGISTRAR
S.C.S.V.M.V
ENATHUR, KANCHIPURAM

Cc to:

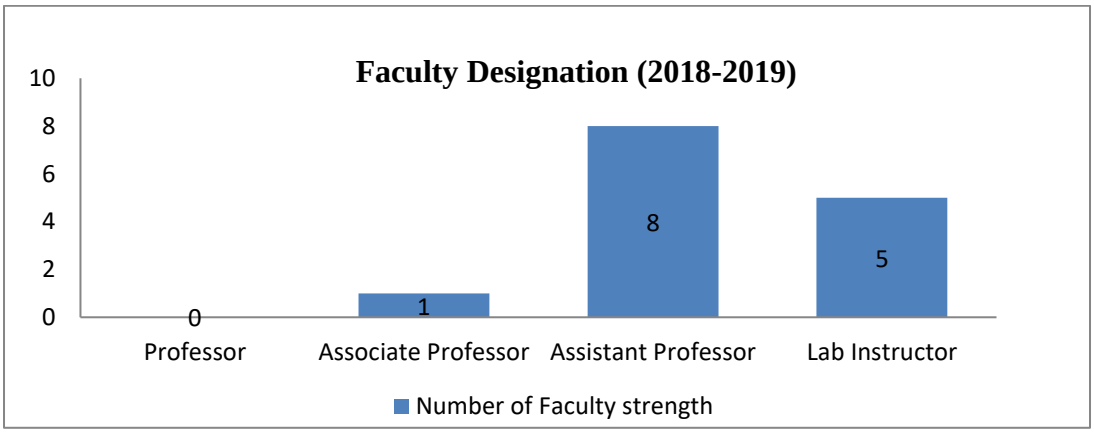
1. Finance Officer
2. Dean (E & T)
3. All HODs
4. The Branch Manager, Indian Bank, SCSVMV UNIVERSITY BRANCH, Enathur.
5. Notice Board
6. File

8. FACULTY POSITION – (2018-2019)

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.	Mr.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.	Mr.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

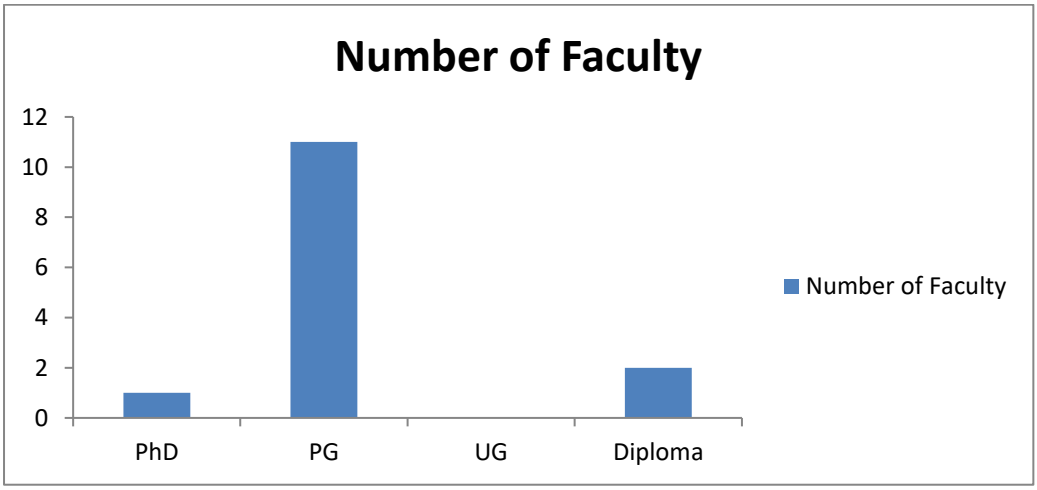
Designation

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



Qualification

Qualification	PhD	PG	UG	Diploma
Number of Faculty	1	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:swami1949@rediffmail.com

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 Dessign, 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 (2018), "Enhancement of Power Efficiency in 5G Massive MIMO system using Innovative Algorithm Technique", in International Journal of Engineering and Technology

Paper Presented

National Conference

- K. Saraswathi, "PID Controller for Interacting and Non-Interacting level process using LabVIEW", presented in National Conference on Robotics, Circuits and Technology.

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 (2018), "Statistical Ratio Analysis and Overview of Growth in Power Energy system in India", in International Journal of Scientific Research in Science, Engineering and Technology.

Paper Presented

National Conference

- Sundar. T, participated in First National conference on "Innovative Research on Robotics, Circuits and Technology (ICRT'18)" organized by Circuit branches of SCSVMV University.

International Conference

- Sundar. T, "Improvement of Dynamic Response in Proportional Resonant Controller Interleaved Buck Boost Converter Inverter Based Solar System", presented in International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC), Priyadharshini College of Engineering, Vaniyambadi

Other Professional Experiences

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

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, I. Thirunavukkarasu (2018), "Design of IMC Based Independent Multi-Loop PI Controller for Interacting Pilot Plant Distillation Column", in Journal of Advanced Research in Dynamical and Control Systems.
- Janani.R (2018), "Application of LabVIEW in Digital System Design and Image Processing", in International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET).
- Janani.R, I. Thirunavukkarasu, Vinayambika S Bhat (2018), "Experimental Implementation of CDM Based Two Mode Controller for an Interacting 2*2 Distillation Process", in International Journal of Pure and Applied Mathematics.
- Vinayambika S. Bhat, I. Thirunavukkarasu, S. Shanmuga Priya, Janani R (2018)., "Identifying the Stabilizing Region of PID Controller Using Polytopic Polynomial Approach for Pilot Plant

Binary Distillation Column", in International Journal of Pure and Applied Mathematics.

Paper Presented

National Conference

- Janani. R, participated in Second National conference on current and Emerging Process Technologies CONCEPT 2019 organized by Department of Chemical Engineering, Kongu Engineering College.
- Janani. R, participated in Sixth National conference on Trends in Instrumentation and Automation NCTIA 2018 organized by Department of Electronics and Instrumentation Engineering, Velammal Engineering College.
- Janani. R, participated in First National conference on "Innovative Research on Robotics, Circuits and Technology (ICRT'18)" organized by Circuit branches of SCSVMV University.

International Conference

- Janani. R, I. Thirunavukkarasu (2019), "Decentralized PI Controller tuning based on Routh Hurwitz Tuning for an Interacting Distillation Process", presented in IEEE International Conference Electrical, Communication, Electronics, Instrumentation and Computing (ECEIC-2019) in Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya, Kanchipuram.
- Janani R, G. Padmanabha Sivakumar (2018), "Comparison on Performance of difference PID Tuning Techniques for Temperature Process", presented in 2nd International Conference on Pure and Applied Mathematics (ICPAM), in Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya, Kanchipuram
- Janani. R, I. Thirunavukkarasu (2018), "Simple way of tuning Centralized PI Controller for Interacting Pilot Plant Distillation Column", International Conference on Intelligent Communication, Control and Devices (ICICCD-2018) in University of Petroleum and Energy Studies, Dehradun.
- Janani. R, Vinayambika.S. Bhat, I. Thirunavukkarasu, V.I. George, " Identifying the Stabilizing Regions of PI Controller based on Frequency Specifications for a Lab Scale Distillation Column", presented in IEEE International Conference on Sustainable Energy, Electronics and Computing Systems, SEEMS 2018, ITS College of Engineering, Greater Noida, UP

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.

Dr. T. Lakshmibai
Assistant Professor,

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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 (2018), "Self B-Adaptive Key Generation for Primary Users in Cognitive Radio Networks for Less Prone Primary User Emulation Attacks", in International Journal of Future Generation Communication and Networking.

Paper Presented

National Conference

- T. Lakshmibai ," Smart Parking System using RFID", presented in National Conference on Innovative Research on Robotics, Circuits and Technology, SCSVMV University
- T. Lakshmibai ," Quadrotor Using Arduino", presented in National Conference on Innovative Research on Robotics, Circuits and Technology, SCSVMV University

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
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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 (2016), "Reduction of the THD in the Class F3 Amplifier Systems", in International Journal of Scientific & Engineering Research

Paper Presented

International Conference

- G. Padmanabha Sivakumar (2017),"Closed loop fuzzy logic controlled class-F3 amplifier system with improved dynamic response", presented in Second International Conference on Electrical, Computer and Communication Technologies

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,

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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 (2018), "Power Efficient Resource Allocation of OFDMA Wireless Network", in International Journal of Engineering and Technology.
- S.S. Saravana Kumar (2017), "Efficient Implementation of Downlink Resource Allocation in Wireless Network with Inter-Cell Interference", in Journal of Advanced Research in Dynamical and Control Systems.

Paper Presented

International Conference

- S. S. Saravana Kumar ," Power Efficient Resource Allocation of OFDMA Wireless Network", presented in International Conference on Cognitive Computing and Infomatics Systems, Aadhi College of Engineering and Technology, Chennai

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,

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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), "Performance Analysis of Simple Microstrip Patch Antenna", in International Journal of Electronics, Electrical and Computational Systems

Paper Presented

National Conference

- K. Sugapriya (2018),"Rectangular Microstrip Patch Antenna Design", presented in National Conference on Robotics, Circuits and Technology.

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
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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 (2018), "Enhancement of Power Efficiency in 5G Massive MIMO system using Innovative Algorithm Technique", in International Journal of Engineering and Technology

Paper Presented

International Conference

- N.C.A. Boovarahan ," Enhancement of Power Efficiency in 5G Massive MIMO system using Innovative Algorithm Technique", presented in International Conference on Cognitive Computing and Informatics Systems, Aadhi College of Engineering and Technology, Chennai

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, Analog and Digital Communication Lab, Digital Electronics Lab, Linear Integrated circuits Lab.
- Attended full time course of advanced training in PLC Programming and its Applications (Delta PLC) for One Week in Advanced Training Institute, Chennai.
- Attended Faculty Development Programme on VLSI in Adhiparasakthi Polytechnic College

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,

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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
- Attended Faculty Development Programme on VLSI in Adhiparasakthi Polytechnic College

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

I 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

II 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

III 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

IV YEAR - EIE (2015-2019 BATCH)

S.No	Student Name/ Register number/ Date of Birth	Father Name	Permanent Address	E-mail id	Mobile Number
1	Jayanth Sarangan 11159G002 23/03/1998	A.K. Sarangan	Akhila Garden Apartments, Alwal, Mr.K.Road, Sainagar Colony, Secendrabad - 500015.	jayanth.messi@gmail.com	9578321234
2	A.R. Krishnan 11159G003 6/4/1998	A. Ramesh	No: 114, Sabdagiri Garden, Kumarpet, Cuddalore - 607401.	arks982727@gmail.com	9487318762
3	M. Praveen 11159G004 26/05/1996	M. Srinivasulu	Sivaji Nagar, Purushotampalli road, Komarolu, Giddlur Mandalam, Prakasham.	mankardup@gmail.com	7702113367

I 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
S.No	**Student Name/ Register number/ Date of Birth**	**Father Name**	**Permanent Address**	**Mobile Number**

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

II 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

S.No	Student Name/ Register number/ Date of Birth	Father Name	Permanent Address	E-mail id	Mobile Number
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)SUNGUVARCHATRAM 602106,Sriperumbhudhur,Kanchipuram Dt,Tamilnadu	sdk130600@gmail.com	7339477303

III 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

IV YEAR - MECHATRONICS (2015-2019 BATCH)

S.No	Student Name/ Register number/ Date of Birth	Father Name	Permanent Address	E-mail id	Mobile Number
1	K K Akash Krishna 11159H001 25/08/1997	K. Kalyanaraman	11B, G-2, Ground Floor, Park Royale, Bajanai Koil 1st Street, Choolaimedu, Chennai- 94.	akashkrishnan97@ yahoo.co.in	9840305814
2	D Aparna 11159H002 3/4/1998	G. Dharmalingam	No.250,Krishnan Street, Pillayar Palayam, Kanchipuram - 631502.	apsaparna13@gmail. com	8098551519
3	Cheedella Bharadwaj 11159H003 11/10/1997	Sreeramachandra Murthy	H.No 5-1-8/1A, NK.Nagar, Kothagudem, Khammam Dist - 507101.	-	9494062314
4	C S Hari Hara Ganesh 11159H004 10/12/1996	P.S.Chandhiramouli	B3/4, Bhuvanaeshwari Apts, Bharadhidhasan Colony, K.K.Nagar.	haritiger100@gmail. com	9677217033
5	K Karthik 11159H005 26/02/1998	M.Trivikram	H.No: 8-1-67/4, Teachers Colony, Mahabubnagar, Telangana - 504 001.	karthikkrishnan32@ gmail.com	8489297293
6	Lingam Sai Vinneth 11159H006 29/10/1997	A.Krishnan	Thirupallai Mukkudal Middle St, Kekkarai Post, Tiruvarur - 610003.	sai90408@gmail.com	9655955680
7	Mulukuttla Vishnu Sreekar 11159H007 20/07/1998	LVS. Ranganayakulu	1-10-67/4/A, Near Bhavita Junior College, Shashabgutta, Mahabubnagar - 509001.	sreekarsree.ms@gmail. com	9000127970
8	Rakesh.J 11159H008 26/11/1997	G.V.Jayaraman	No.8 Raja Complex, 4th Street, Sowrastrapuram, Ambur, Vellore - 635802.	gijr15@outlook.com	8940278772
9	Ramesh Pavan 11159H009 9/1/1997	N.K. Ramesh	Dno.53, New C-Type, Tirumala - 517504	pavanramesh09@ gmail.com	7418152718

S.No	Student Name/ Register number/ Date of Birth	Father Name	Permanent Address	E-mail id	Mobile Number
10	K Siva Subbramanian 11159H010 22/04/1998	S.Kameshwaran	A3, Amar Ganesh Flats, Krishnaveni Amal nagar, Madipakkam,Chennai - 91	siasu2012@gmail. com	9790246884
11	Rishi Dharan.N 11159H011 28/12/1996	S. Natarajan	NO.109/A, Valapandal Road Kalavai Vellore (Dist) Pin:632 506	-	9442316369

27.02.2018

11.FINANCIAL REPORT

Budget proposal for the financial year 2018-19

Name of the Dept: EIE

A.REVENUE

S.NO	Head of Account	Amount
1.	Academic Council/Board of Studies Exp.	5,000
2.	Educational Tour Exp.	10,000
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	1,00,000
11.	Travelling Exp.& DA	5,000
12.	Research Activities	25,000
13.	Remuneration for part time Course	-
	TOTAL	₹ 2,20,000

B.CAPITAL

S.NO	Head of Account	Amount
1.	Books	1,00,000
2.	Computers& Software	50,000
3.	Furniture	-
4.	Lab Equipments	91,000
5.	Teaching Aids	-
	TOTAL	₹ 2,41,000

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 : ₹35,000
   - For Travelling : ₹ 15,000
   - For Hospitality : ₹15,000
   - For prizes and other Expenses : ₹ 35,000

B.CAPITAL ITEMS:

2. COMPUTERS AND SOFTWARE:

S.NO	ITEM	LAB NAME	AMOUNT
1	Pspice ,Visim & matlab Software	EDC,LIC&ADC Lab	50,000
		TOTAL	₹ 50,000

4. LAB EQUIPMENTS:

S.NO	ITEM	LAB NAME	Qty	AMOUNT
1	Function Generator	EDC,LIC&ADC Lab	5	50,000
2	Voltmeter (0-3V)&(0-30V)		Each 5nos	4000
3	Ammeter (0-30mA) & (0-500μA)		Each 5nos	4000
4	Arm Processor	Microprocessor& Micro Controller Lab	2	14,000
5	Ardino Kit		3	3000
6	Sevensegment Display Interfacing board		2	6000
7	Wireless Projector	VI&CC Lab	1	5000
8	I to P Convertor	Process Control Lab	1	5000
			Total	₹ 91,000

29/03/2019

INCOME / EXPENDITURE

Total income for the academic year 2018 -19
(Tution fees amount paid by the students)

First year	60,000 * 02 * 15	18 Lakhs
Second year	60,000 * 02 * 20	24 Lakhs
Thrid year	56,500 * 02 * 20	22.6 Lakhs
Final year	52,125 * 02 * 13	13.55 Lakhs
	Total Income	**78.15 Lakhs**

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

Lab equipments and spares purchased = **NIL**

HOD/EIE

12.TIME TABLE

ODD SEMESTER - TIME TABLE – 2018-19

III Semester 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	MTM	MSM	MP Lab				M	EE	EDC
Tuesday	MSM	M	MTM	EDC	OOPS		OOPS LAB		
Wednesday	OOPS	M	EDC	MTM	MSM		EE		S&I
Thursday	EE	MSM	OOPS	EDC	M		MTM	MSM	Library
Friday	EDC LAB			M	MTM		OOPS	EE	EDC

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
MH3T1	M	Mathematics III	**5**	B.Amudha	Maths
MR3T2	MTM	Manufacturing Technology for Mechatronics	**5**	Mr.S.Sathish Kumar	Mech
EC3T4	EDC	Electronic Devices and Circuits	**5**	Mr.G.P.Sivakumar	EIE
ME3T3	MSM	Material Science & Metallurgy	**5**	Mr.Ellappan	Mech
EE3T3	EE	Electrical Engineering	**5**	Mrs.T.Lakshmibai	EIE
CS3T6	OOPS	Object Oriented Programming using C++	**4**	Mr.Sankar	CSE
SA3T3	SANSKRIT	Sanskrit & Indian Culture III	**1**		
ME3P6	MP Lab	Manufacturing Process Lab	**3**	Mr.S.Sathish Kumar	Mech
EI3P7	EDC Lab	Electronic Devices and Circuits Lab	**3**	Mr.G.P.Sivakumar	EIE
CS3P9	OOPS Lab	Object Oriented Programming using C++ Lab	**3**	Mr.Sankar	CSE

CLASS INCHARGE: **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 – 2018-19

III Semester EIE

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	ST	POC	EE Lab				M	EE	EDC
Tuesday	POC	M	ST	EDC	OOPS		OOPS Lab		
Wednesday	OOPS	M	EDC	ST	POC		EE		S&I
Thursday	EE	POC	OOPS	EDC	M		ST	POC	Library
Friday	EDC Lab			M	ST		OOPS	EE	EDC

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
MG3T1	M	Applied Mathematics for Instrumentation EngineersI	**5**	B.Amudha	Maths
EC3T6	POC	Principles of Communication	**5**	Mrs.K.Komathy	EIE
EC3T4	EDC	Electronic Devices and Circuits	**5**	Mr.G.P.Sivakumar	EIE
EI3T2	ST	Sensors And Transducers	**5**	Mrs.K.Saraswathi	EIE
EE3T3	EE	Electrical Engineering	**5**	Mrs.T.Lakshmibai	EIE
CS3T6	OOPS	Object Oriented Programming using C++	**4**	Mr.Sankar	CSE
SA3T3	SANSKRIT	Sanskrit & Indian Culture III	**1**		
EI3P7	EDC Lab	Electronic Circuits and Devices Lab	**3**	Mr.G.P.Sivakumar	EIE
CS3P9	OOPS Lab	Object Oriented Programming Using C++ Lab	**3**	Mr.Sankar	CSE
EE3P6	EE Lab	Electrical Engineering Lab	**3**		

CLASS INCHARGE: **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 – 2018-19

V Semester EIE

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			M	DSP		PED	CS	LIB
Tuesday	CS	TDFM	M	OPEN ELECTIVE			DSP	PED	CS
Wednesday	DSP	M	PED	PPI	TDFM		CS Lab		
Thursday	M	PPI	TDFM	CS	PED		DSP	M	TDFM
Friday	TDFM	PPI	TDFM Lab				PPI	CS	S&I

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
MG5T1	M	Applied Mathematics for Instrumentation Engineers III	**5**	Mr.Nagarajan	MATHS
EC5T4	CS	Control Systems	**5**	Mr.N.C.A.Boovarahan	EIE
EI5T3	PPI	Power Plant Instrumentation	**4**	Mr.T.Sundar	EIE
EC5T5	DSP	Digital Signal Processing	**4**	Mr.S.S.Saravanakumar	EIE
EI5T4	PED	Power Electronics and Drives	**4**	Mrs.T.Lakshmibai	EIE
ME5T6	TDFM	Thermo Dynamics and Fluid Mechanics	**4**	Mr.Balakumar	Mech
SA5T5	SANSKRIT	Sanskrit & Indian Culture – V	**1**		
ME5P6	TDFM Lab	Thermo Dynamics And Fluid Mechanics Lab	**3**	Mr.Balakumar	Mech
EC5P7	PED Lab	Power Electronics and Drives Lab	**3**	Mrs.T.Lakshmibai	EIE
EE5P8	CS Lab	Control Systems Lab	**3**	Mrs.K.Saraswathi	EIE

CLASS INCHARGE: **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 – 2018-19

V Semester 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	PED Lab			M	TM		PED	CS	SA
Tuesday	CS	TDHT	M	OPEN ELECTIVE			TM	PED	CS
Wednesday	TM	M	PED	SA	TDHT		Assembly Drawing		
Thursday	M	SA	TDHT	CS	PED		TM	M	TDHT
Friday	TDHT	TM	Thermo Dynamics Lab				SA	CS	S&I

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
MH5T1	M	Mathematics V	5	Mr.Nagarajan	MATHS
EI5T2	SA	Sensors & Actuators	4	Mr.G.Subramaniyan	EIE
MG5T3	TDHT	Thermo Dynamics & Heat transfer	5	Mr.VenkatakotteswaraRao	Mech
EC5T4	CS	Control Systems	5	Mr.N.C.A.Boovarahavan	EIE
MG5T4	TM	Theory of Machines	5	Mr.Vinayagamoorthy	Mech
EI5T4	PED	Power Electronics & Drives	4	Mrs.T.Lakshmibai	EIE
SA5T5	SANSKRIT	Sanskrit & Indian Culture – V	1		Sanskrit
MH5P7	MA Drawing	Manufacturing and Assembly drawing(Practical)	3	Mr.D.Sathish Kumar	Mech
ME5P9	TD Lab	Thermo Dynamics Lab	3	Mr.Balakumar	Mech
EC5P7	PED Lab	Power Electronics and Drives Lab	3	Mrs.T.Lakshmibai	EIE

CLASS INCHARGE: **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 – 2018-19

VII Semester EIE

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-II	ES	E-I	POM	POM		E-II	ES	CCP
Tuesday	CCP	VLSI	Virtual Instrumentation Lab				ES		VLSI
Wednesday	E-I	VLSI	E-II	POM	POM		Project Work Phase –I		
Thursday	ES	CCP	Computer Control Lab				E-II	VLSI	E-I
Friday	E-II	E-I	VLSI	CCP	POM		E-I	CCP	Library

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
EI7T3	POM	Principle of Management & Professional Ethics	5	Mr.V.Swaminathan	EIE
EI7T2	ES	Embedded System	5	Mr.G.P.Sivakumar	EIE
EI7T4	CCP	Computer Control of Processes	5	Mrs.K.Saraswathi	EIE
EC7T1	VLSI	VLSI Design	5	Mr.S.S.Saravana Kumar	EIE
EI7E4	VI	Elective I	5	Mrs.Janani.R	EIE
EI7EA	ICPCI	Elective II	5	Mr.T.Sundar	EIE
EI7P7	CC Lab	Computer Control Lab	3	Mrs.K.Saraswathi	EIE
EI7P8	VI Lab	Virtual Instrumentation Lab	3	Mrs.Janani.R	EIE

CLASS INCHARGE: **Time Table Incharge** **HOD/ EIE**

ODD SEMESTER - TIME TABLE – 2018-19

VII Semester 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	DMS	ES	E-I	RA	RA		E-II	ES	PLC
Tuesday	E-I	E-II	Robotics Lab				ES	PLC	DMS
Wednesday	ES	DMS	E-II	RA	RA		Project Work Phase –I		
Thursday	PLC	ES	PLC Lab				E-II	DMS	E-I
iday	E-II	E-I	DMS	PLC	RA		E-I	PLC	Library

S. CODE	SUBJECT		Hours Allotted	STAFF NAME	DEPT
MH7T1	RA	Robotics & Automation	5	Mrs.K.Sugapriya	EIE
EI7T2	ES	Embedded System	5	Mr.G.P.Sivakumar	EIE
MH7T4	PLC	PLC & Data acquisition Systems	5	Mrs.K.Saraswathi	EIE
MH7T3	DMS	Design of Mechatronics Systems	5	Mr.Vijayabhaskar	Mech
MH7ED	E-I	Elective I	5	Ms.Janani.R	EIE
MH7EI	E-II	Elective II (Rapid manufacturing technologies)	5	Mr.Mohan	Mech
MH7P6		Mechatronics Lab(Robotics & Simulation)	3	Mr.Mohan	Mech
MH7P7	PLC	PLC Lab	3	Mrs.K.Saraswathi	EIE

CLASS INCHARGE: **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 – 2018-19

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	M	MI	TRANSDUCER LAB				MI	II	SS
Tuesday	SS	II	DE	LIC	M		LIC	MI	DE
Wednesday	LIC LAB			M	DE		SS	LIC	SI
Thursday	DE	LIC	MI	II	SS		M	II	LIB
Friday	M&I LAB			LIC	M		SS	DE	MI

SUB CODE	SUBJECT		FACULTY	DEPT
MG4T1	MATHS	APPLIED MATHEMATICS FOR INSTRUMENTATION ENGINEERS-II	Dr.V.K.RADHAKRISHNAN	MATHS
EI4T2	LIC	LINEAR INTEGRATED CIRCUITS	Mrs.T.LAKSHMIBAI	EIE
EI4T3	II	INDUSTRIAL INSTRUMENTATION	Mr.G. SUBRAMANIYAN	EIE
EE4T2	DE	DIGITAL ELECTRONICS	Ms.JANANI. R	EIE
EI4T6	SS	SIGNALS AND SYSTEMS	Mr. S. S. SARAVANA KUMAR	EIE
EE4T7	MI	MEASUREMENTS AND INSTRUMENTATION	Mr.G.P.SIVA KUMAR	EIE
SA4T4	SI	SANSKRIT & INDIAN CULTURE III	Dr. SRIDHAR	SANSKRIT
EI4P9	LIC LAB	LINEAR INTEGRATED CIRCUITS AND DIGITAL LAB	Mrs.T.LAKSHMIBAI	EIE
EE4P6	MI LAB	MEASUREMENTS AND INSTRUMENTATION LAB	Mr.G.P.SIVA KUMAR	EIE
EI4P8	TD&II LAB	TRANSDUCER AND INDUSTRIAL INSTRUMENTS LAB	Mr.T.SUNDAR	EIE

CLASS INCHARGE **HOD/ DEPT. OF EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

EVEN SEMESTER - TIME TABLE – 2018-19

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	ICP	MPMC	PCI	FOLI		AI	MPMC	SOFT
Tuesday	MP & MC LAB			OR	MPMC		PCI	IPC	SI
Wednesday	ICP	AI	FOLI	PCI	AI		MPMC	OR	PCI
Thursday	AI	FOLI	PCI	OR	ICP		SIMULATION LAB		
Friday	MPMC	FOLI	IPC LAB				OR	AI	ICP

SUB CODE	SUBJECT		FACULTY	DEPT
MG6T1	OR	OPERATION RESEARCH	Dr.P.BALAJI	MATHS
EC6T3	MPMC	MICROPROCESSOR AND MICROCONTROLLER	Mr.N.C.A.BOOVARAHAN	EIE
EI6T3	PCI	PROCESS CONTROL INSTRUMENTATION	Ms.JANANI. R	EIE
EI6T4	ICP	INDUSTRIAL CHEMICAL PROCESS	Mr.T. SUNDAR	EIE
EI6T5	AI	ANALYTICAL INSTRUMENTATION	Mrs.K. SARASWATHI	EIE
EI6T6	FOLI	FIBER OPTICS & LASER INSTRUMENTATION	Mrs.K. SUGAPRIYA	EIE
SA6T6	SI	SANSKRIT & INDIAN CULTURE	Dr. SRIDHAR	SANSKRIT
	SOFT	SOFT SKILL	Dr.K.S. SIVAKUMAR	SANSKRIT
EC6P7	MP & MC LAB	MICROPROCESSOR ,MICROCONTROLLER LAB	Mr.N.C.A.BOOVARAHAN	EIE
EI6P8	SIM LAB	SIMULATION LAB	Ms.JANANI. R	EIE
EI6P9	IPC LAB	INDUSTRIAL AND PROCESS CONTROL LAB	Mrs.K. SARASWATHI	EIE

CLASS INCHARGE **HOD/ DEPT. OF EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

EVEN SEMESTER - TIME TABLE – 2018-19

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	RA		AIR		LIB			BMI	AUTO	SEM
Tuesday	AUTO	AIR		RA	BMI			PROJECT PHASE - II		
Wednesday	BMI	AUTO		AIR	AUTO			AIR	RA	
Thursday	BMI		AUTO	RA	SEM			PROJECT PHASE -II		
Friday	AIR	RA	AUTO	BMI				PROJECT PHASE -II		

SUB CODE	SUBJECT		FACULTY	DEPT
EI8T1	RA	ROBOTICS & AUTOMATION	Mrs.K. SARASWATHI	EIE
EI8T2	BMI	BIO MEDICAL INSTRUMENTATION	Mr.S. S. SARAVANA KUMAR	EIE
EI8E3	AIR	AIRCRAFT INSTRUMENTATION	Mrs.T. LAKSHMIBAI	EIE
EI8EU	AI	AUTOMOTIVE INSTRUMENTATION	Mr.T. SUNDAR	EIE

CLASS INCHARGE **HOD/ DEPT. OF EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDHYALAYA

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ENATHUR. KANCHIPURAM – 631 561

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

EVEN SEMESTER - TIME TABLE – 2018-19

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	M	MI	SM & FM LAB				MI	II	MS & FF
Tuesday	MS & FF	II	DE	LIC	M		LIC	MI	DE
Wednesday	LIC LAB			M	DE		MS & FF	LIC	SI
Thursday	DE	LIC	MI	II	MS & FF		M	II	LIB
Friday	M&I LAB			LIC	M		MS & FF	DE	MI

SUB CODE	SUBJECT		FACULTY	DEPT
MG4T1	MATHS	APPLIED MATHEMATICS FOR INSTRUMENTATION ENGINEERS-II	Dr.V.K.RADHAKRISHNAN	MATHS
EI4T2	LIC	LINEAR INTEGRATED CIRCUITS	Mrs.T.LAKSHMIBAI	EIE
EI4T3	II	INDUSTRIAL INSTRUMENTATION	Mr.G. SUBRAMANIYAN	EIE
EE4T2	DE	DIGITAL ELECTRONICS	Ms.JANANI. R	EIE
ME4T4	MS&FF	MECHANICS OF SOLIDS & FUNDAMENTALS OF FLUIDS	DR.A.TAMILARASAN	MECHANICAL
EE4T7	MI	MEASUREMENTS AND INSTRUMENTATION	Mr.G.P.SIVA KUMAR	EIE
SA4T4	SI	SANSKRIT & INDIAN CULTURE III	Dr. SRIDHAR	SANSKRIT
EI4P9	LIC LAB	LINEAR INTEGRATED CIRCUITS AND DIGITAL LAB	Mrs.T.LAKSHMIBAI	EIE
EE4P6	MI LAB	MEASUREMENTS AND INSTRUMENTATION LAB	Mr.G.P.SIVA KUMAR	EIE
ME4P9	SM&FM LAB	STRENGTH OF MATERIALS & FLUID MECHANICS LAB	Mr.R.ELLAPPAN	MECHANICAL

CLASS INCHARGE **HOD/ DEPT. OF EIE**

EVEN SEMESTER - TIME TABLE – 2018-19

Year: III –MECHATRONICS 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	MEMS	MPMC	CAD/CAM	FPS		DME	MPMC	SOFT
Tuesday	MP & MC LAB			MPMC	MPMC		CAD/CAM	FPS	SI
Wednesday	CAD/CAM	DME		FPS			OR	OR	MEMS
Thursday	FPS	DME	CAD/CAM	OR	MEMS		FPC LAB		
Friday	MPMC	DME	CAD/CAM LAB				OR	MEMS	

SUB CODE	SUBJECT		FACULTY	DEPT
MH6T1	OR	OPERATION RESEARCH	Dr.P.BALAJI	MATHS
ME6T3	DME	DESIGN OF MACHINE ELEMENTS	Dr.R. VINAYAGAMOORTHY	MECHANICAL
EC6T3	MP & MC	MICROPROCESSOR AND MICROCONTROLLER	Mr.N.C.A.BOOVARAHAN	EIE
ME6T5	CAD	CAD & CAM	Dr.S.VIJAYABHASKAR	MECHANICAL
ME6T8	FPS	FLUID POWER SYSTEMS	Mr.A.NANDAKUMAR	MECHANICAL
MR6T6	MEMS	MICRO ELECTRO MECHANICAL SYSTEMS	Mrs.K. SUGAPRIYA	EIE
SA6T6	SI	SANSKRIT & INDIAN CULTURE		SANSKRIT
EC6P7	MP & MC LAB	MICROPROCESSOR ,MICROCONTROLLER LAB	Mr.N.C.A.BOOVARAHAN	EIE
	CADLAB	CAD & CAM LAB	Dr.S.VIJAYABHASKAR	MECHANICAL
ME6P9	FPC LAB	FLUID POWER CONTROL LAB	Mr.K.MOHAN	MECHANICAL

CLASS INCHARGE **HOD/ DEPT. OF 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

EVEN SEMESTER - TIME TABLE – 2018-19

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	MV	PPCE	AIR		POM		POM	MV	LIB
Tuesday	PPCE	AIR		PPCE	MV		PROJECT PHASE -II		
Wednesday	MV		POM	AIR	PPCE		AIR	PPCE	SEM
Thursday	PPCE	SEM	POM		PPCE		PROJECT PHASE -II		
Friday	AIR	MV		POM			PROJECT PHASE -II		

SUB CODE	SUBJECT		FACULTY	DEPT
MH8T1	POM	PRINCIPLES OF MANAGEMENT & PROFESSIONAL ETHICS	Mr.V. SWAMINATHAN	EIE
MH8T2	MV	MACHINE VISION	Dr.D. VIJAYAN	MECHANICAL
EI8E3	AIR	AIRCRAFT INSTRUMENTATION	Mrs.T. LAKSHMIBAI	EIE
MH8EJ	PPCE	PROCESS PLANNING & COST ESTIMATION	Mr.S.D.SATHISHKUMAR	MECHANICAL

CLASS IN CHARGE **HOD/ DEPT. OF EIE**

Faculty Individual Time Table Odd Semester 2018-19

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									
Friday					POM				

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	ST								PLC/CCP
Tuesday			ST					PLC/CCP	
Wednesday	IT LAB			ST			LAB		CS
Thursday	PLC/CCP		CC/PLC LAB				ST		
Friday				PLC/CCP	ST			PLC/CCP	CCP

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	E-II	ADE	II CSE (S4) – ADE LAB				E -II		PPI
Tuesday				ADE			II CSE (S4) – ADE LAB		
Wednesday	ADE		E-II	PPI			PROJECT WORK PHASE I		
Thursday		PPI					E-II	ADE	
Friday	E-II	PPI					PPI	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			VI		ADE		II CSE (S2) ADE LAB		
Tuesday	VI		VI LAB				ADE		
Wednesday			ADE						
Thursday				ADE					VI
Friday	ADE	VI	II CSE (S2)ADE LAB				VI		

Staff Name: Mrs.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						PED	EE	
Tuesday	E & MP Lab							PED	
Wednesday			PED				EE		
Thursday	EE				PED		E & MP Lab		
Friday								EE	

Staff Name: Mr.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	DPSD		ES					ES	EDC
Tuesday		DPSD		EDC			ES		
Wednesday	ES		EDC				DPSD		
Thursday		ES		EDC					DPSD
Friday	EDC LAB				DPSD				EDC

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	DSP				
Tuesday	ADE	VLSI					DSP		VLSI
Wednesday	DSP		VLSI				ADE	PROJECT PHASE I	
Thursday		ADE	II CSE (S3) ADE LAB				DSP	VLSI	
Friday			VLSI		ADE		II CSE (S3) ADE LAB		

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	ADE			RA			SS		
Tuesday	II CSE (S1) ADE Lab				SS		ADE		SS
Wednesday		ADE		RA			II CSE (S1) ADE Lab		
Thursday				ADE			SS		
Friday		SS		ADE	RA				

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	ICT			CS	
Tuesday	CS		ADE						CS
Wednesday		ICT	II CSE (S5) ADE Lab					ADE	ICT
Thursday	ADE	ICT		CS			II CSE (S5) ADE Lab		
Friday		ADE						CS	

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	PED LAB								SA
Tuesday	ADE LAB S1								
Wednesday				SA					
Thursday		SA	ADE LAB S3				ADE LAB S5		
Friday			ADE LAB S2				SA		

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		POC					ADE LAB S2		
Tuesday	POC		VI LAB				ADE LAB S4		
Wednesday					POC				
Thursday		POC						POC	
Friday			ADE LAB S2				ADE LAB S3		

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-2018-19

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 Mr.G.Subramaniyan & Mr.K.Vinayagamoorthy		**ADE Lab S4(II CSE)** Mr.T.Sundar Mrs. Komala & Mr. K.Vinayagamoorthy				**ADE Lab S2(II CSE)** Mrs.Janani.R Mrs.K.Komathy & Mrs.V.Komala		
Tuesday	**E & MP Lab (III Mechanical)** Mrs.T.Lakshmibai Mrs.V.Komala & Mr.K.Vinayagamoorthy		**VI Lab (IV EIE)** Mrs.Janani.R Mrs.K.Komathy				**ADE Lab S4 (II CSE)** Mr.T.Sundar Mrs.K.Komathy & Mr.K.Vinayagamoorthy		
	ADE Lab S1(II CSE) Mrs. K.Sugapriya Mr.G.Subramaniyan & Ms.K Soundari						**OOPS Lab (II EIE&Mechatronics)** Mr.Sankar Ms.K Soundari		
Wednesday	**DIGITAL LAB (II IT)** Mrs.K.Saraswathi Ms.K Soundari		**ADE Lab S5(II CSE)** Mr. N.C.A.Boovarahan Mrs. V.Komala & Mr.K.Vinayagamoorthy			**L U N C H**	**ADE Lab S1 (II CSE)** Mrs. K.Sugapriya Mrs. Komala & Ms.K Soundari		
							CS LAB(III EIE) Mrs.K.Saraswathi Mr.K.Vinayagamoorthy		
Thursday			**ADE Lab S3(II CSE)** Mr. S.S.Saravana Kumar Mr.G.Subramaniyan & Ms.K Soundari				**ADE Lab S5 (II CSE)** Mr. N.C.A.Boovarahan Mr.G.Subramaniyan & Mr.K.Vinayagamoorthy		
			PLC Lab (IV EIE &Mechatronics) Mrs.K.Saraswathi Mr.K.Vinayagamoorthy				**E & MP Lab (III Mechanical)** Mrs.T.Lakshmibai Mrs.V.Komala & Ms.K Soundari		
Friday	**EDC Lab (II EIE& Mechatronics)** Mr.G.P.Sivakumar Mrs.V.Komala		**ADE Lab S2 (II CSE)** Mrs.Janani.R Mrs.K.Komathy&Mr.G.Subramaniyan				**ADE Lab S3 (II CSE)** Mr. S.S.Saravana Kumar Mrs.K.Komathy& Ms.K Soundari		

FACULTY INDIVIDUAL TIME TABLE EVEN SEMESTER 2018-19

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		POM		
Tuesday									
Wednesday			POM						
Thursday			POM						
Friday				POM					

Staff Name:Mrs.K. SARASWATHI

HOUR TIME	1 9:10 to 10:00	0:00 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	RA		ADC LAB (CSE –S3)				AI		
Tuesday				RA			ADC LAB(CSE –S3)		
Wednesday		AI			AI			RA	
Thursday	AI			RA					
Friday		RA	IPC LAB (EIE)					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		ICP	T&I LAB (EIE)					AI	
Tuesday	AI		ADC LAB (CSE S4)				PROJECT PHASE -II	ICP	PROJECT PHASE - II
Wednesday	ICP	AI			AI		ADC LAB (CSE S4)		
Thursday			AI		ICP		PROJECT PHASE - II		
Friday			AI				PROJECT PHASE - II		ICP

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				PCI			MPMC LAB (CSE S2)		
Tuesday			DE				PCI		DE
Wednesday				PCI	DE				PCI
Thursday	DE		PCI				SIM LAB		
Friday			MPMC LAB (CSE S2)					DE	

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			AIR						
Tuesday		AIR		LIC			LIC		AIR
Wednesday	LIC LAB (EIE & MECHATRONICS)			AIR			AIR	LIC	
Thursday		LIC	ADC LAB (CSE S5)						
Friday	AIR			LIC			ADC LAB (CSE S5)		

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		MI					MI		
Tuesday								MI	
Wednesday			MPMC LAB (CSE S1)						
Thursday			MI				MPMC LAB (CSE S1)		
Friday	MI LAB (EIE & MECHATRONICS)								MI

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			MPMC LAB (CSE S3)				BMI		SS
Tuesday	SS						PROJECT PHASE -II		
Wednesday	BMI		ADC LAB (CSE S1)				SS		
Thursday	BMI				SS		ADC LAB (CSE S1)		
Friday				BMI			SS	PROJECT PHASE -II	

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		MEMS			FOLI		ADC LAB (CSE S2)		
Tuesday							MPMC LAB (CSE S3)		
Wednesday			FOLI						MEMS
Thursday		FOLI			MEMS				
Friday		FOLI	ADC LAB (CSE S2)					MEMS	

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	DSP		MP & MC		DSP			MP & MC	
Tuesday	MPMC LAB (EIE & MECHATRONICS)				MP & MC			DSP	
Wednesday	MPMC LAB (IT)						MP & MC		
Thursday			MPMC LAB (CSE S5)				DSP		
Friday	MP & MC			DSP			MPMC LAB (CSE S5)		

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			MPMC Lab(CSE –S3)					II	
Tuesday		II					MPMC Lab(CSE –S3)		
Wednesday			ADC LAB (CSE -S1)				ADC LAB (CSE -S4)		
Thursday				II				II	
Friday	MI LAB - II/EIE & MECHATRONICS						ADC LAB (CSE - S5)		

Staff Name: K. KOMATHI

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							ADC LAB (CSE - S2)		
Tuesday			MPMC LAB (CSE -S4)						
Wednesday			ADC LAB (CSE – S1)				MPMC LAB (CSE -S4)		
Thursday							ADC LAB (CSE – S1)		
Friday			ADC LAB (CSE - S2)						

13.SEMINARS/WORKSHOPS/CONFERENCES/SYMPOSIUMS/TRAINING PROGRAMS ORGANIZED

DEPARTMENTAL ACTIVITIES

S.NO	Name of the Department	Programme Organized	Date
1	EIE & MECHATRONICS	Talk on Employment opportunities in core Sector.	31-07-2018
2	SCSVMV UNIVERSITY STUDENTS	Induction Programme	23-07-2018 to 10-08-2018
3	EIE & MECHATRONICS	Engineer's Day Celebration	18.09.2018
4	EIE & MECHATRONICS	Three Days ICT Programme (FDP) on IoT in Manufacturing in co-ordination with NITTTR Chandigarh.	15.10.2018 to 17.10.2018
5	EIE & MECHATRONICS	Five Days ICT in Tools for Scientific Research in Engineering and Science.	12.11.2018 to 16.11.2018
6	SCSVMV UNIVERSITY STUDENTS & STAFF MEMBERS	"Rashtriya Ekta Diwas (National Unity Day)"	31.10.2018
7	EIE Dept	Industrial Automation Workshop Training Organaised.	27/02/19& 28/02/19
8	CIRCUIT BRANCH(ECE, EEE,EIE)	National level technical symposium –CIRCUITERZZ 2K19	07/03/19 & 08/03/19
9	CIRCUIT BRANCH(ECE, EEE,EIE)	IEEE Project Expo'2019	15/03/19
10	EIE &MECHATRONICS	National Voter's Day 2019 (Eassy, Speech & Drawing)	23.01.2019
11	Circuit Branch (EIE ,ECE,EEE)	International Conference ICECEIC-19	30.01.2019 & 31.01.2019
12	EIE & MECHATRONICS	Salute to Indian army	18.02.2019

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	4/08/2018
2	III Year EIE& MECHACTRONICS Class committee meeting	6/08/2018
3	II Year EIE& MECHACTRONICS Class committee meeting	23/08/2018
4	I Year EIE& MECHACTRONICS Class committee meeting	28/08/2018
5	EIE& MECHACTRONICS Staff meeting	30/07/2018
6	I Year EIE& MECHACTRONICS Parent Teachers Meetings	23/07/2018
7	EIE& MECHACTRONICS Staff meeting	12/11/2018
8	3 rd DC Meeting for Internal scholar (Mr.G.Padmanabha sivakumar)	31/10/2018
9	II Year EIE& MECHACTRONICS Class committee meeting	13/03/2019
10	III Year EIE& MECHACTRONICS Class committee meeting	14/03/2019
11	EIE & MECHACTRONICS Curriculum meeting	21/03/2019
12	IV Year EIE& MECHACTRONICS Class committee meeting	21/03/2019
13	I Year EIE& MECHACTRONICS Class committee meeting	21/03/2019
14	EIE& MECHACTRONICS Staff Meeting	08/02/2019

RESEARCH COLLOQUIUM

SL.NO	NAME	DATE	TITLE
1	Mr.T.Sundar	19.02.19	Simulation and investigation of photovoltaic power system using interleaved buck boost converter.

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	11159G003	A R Krishnan	PATIENT MONITORING SYSTEM USING LABVIEW	Internal	Mr.T Sundar
2	11159G002	Jayanth Sarangan	FINGER PRINT VOTING SYSTEM	Internal	Ms.Janani R
3	11159G004	M Praveen			
4	11159H001	K K Akash Krishna	HUMANOID ROBOT	Internal	Mr. S S Saravana Kumar
5	11159H008	J Rakesh			
6	11159H002	D Aparna	SENSOR ASSISTED BRAKING SYSTEM PHASE-I	Internal	Mr. N C A Boovarahan
7	11159H004	C S Hari Hara Ganesh			
8	11159H006	L Saivineeth	DESIGN AND IMPLEMENTATION OF QUAD-COPTER	Internal	Mrs.T Lakshmibai
9	11159H010	K Siva Subramanian			
10	11159H005	K Karthik	MATERIAL SORTING MACHINE	Internal	Mrs.K Saraswathi
11	11159H011	N Rishidharan			
12	11159H007	M Vishnu Sreekar	SMART AGRICULTURE USING IOT	Internal	Mrs .K Sugapriya
13	11159H009	Ramesh Pavan			

ABSTRACTS (PHASE – I)

- **Patient Monitoring System Using LabView**

Name of the Student: A R Krishnan

Name of the Guide: Mr.T Sundar

In this project the temperature of the patient will be monitored using a sensor called LM35. In order to transmit the value of the temperature NI- DAQ will be used. NI-DAQ is the sample data acquisition system; it is like the bridge between the software in the system and the sensors and transducers in the circuits. In the software some pf the calculations are made to display the body temperature of the patient. The temperature of the patient will be displayed in both degree Celsius and Fahrenheit and the variation of the temperature will be monitored through a graphical indicator. In this project let us see about the simulation of the ECG wave in the Lab View using biomedical kit and the monitoring system of the temperature using Lab View and NI-DAQ analog module 9219.

- **Finger Print Voting System**

Name of the Students: Jayanth Sarangan and M Praveen

Name of the Guide: Ms.Janani R

This project deals with the design and development of a fingerprint electronic voting system. A fingerprint is a unique identify of an individual. The fingerprint sensor is interfaced to an Arduino Uno processor. The voter is asked to enroll his fingerprint and once that is done, the personal details of the user are registered in the database. At the time of polling the suggested fingerprint voting system allows the user to scan his fingerprint, in order to check his eligibility by comparing his current fingerprint with the one already stored in the systems database. Once the users complete the identification process, they will be allowed to caste their vote. This system can reduce fake voting and also counting of the votes will be immediate and that makes the voting process efficient, fast, and secure.

- **Humanoid Robot**

Name of the Students: K K Akash Krishna and J Rakesh

Name of the Guide: Mr.S S Saravana Kumar

Humanoid robots are now used as a research tool in several scientific areas. Research need to understand the human body structure and behavior (biomechanics) to build and study humanoid robots. On the other side, the attempt to the simulation of the human body leads to a better understanding of it. Humanoid robots are being developed to perform human tasks like personal assistance, where they should be able to assist the sick and elderly, and dirty or dangerous jobs. Regular jobs like being a receptionist or a worker of an automotive

manufacturing line are also suitable for humanoids. They are becoming increasingly popular for providing entertainment too. The demonstration scenario chosen in this project is a household robot for various tasks in the kitchen. The multi- modal interaction between robot and its environment, the human user and eventually other humanoids cannot fully be simulated in its entire complexity.

- **Sensor Assisted Braking System**

Name of the Students: D Aparna and C S Hari Hara Ganesh

Name of the Guide: Mr. N C A Boovarahan

An electronic controller of the invention judges whether the pedaling speed exceeds a threshold and a pedal pressure exceeds a threshold based on detected signals from a stroke sensor and a pressure sensor. When the electronic controller judges that the pedaling speed exceeds the threshold and the pedal pressure exceeds the threshold, comparators output signals to actuate a switch. Thus, a braking force for emergency braking is outputted.

- **Design and Implementation of Quad-Copter**

Name of the Students: L Saivineeth and K Siva Subramanian

Name of the Guide: Mrs.T Lakshmibai

Quadcopter can achieve vertical flight in a stable manner and be used to monitor or collect data in a specific region such as mapping terrains. Technological advances have reduced the cost and increase the performance of the low power microcontrollers that allowed the general public to develop their own Quadcopter. The goal of this project is to build, modify, and make improvements in Quadcopter design to obtain stable flight. The project used a Quadcopter that included a frame, motors, electronic speed controllers; Batteries, a transmitter, a receiver, and a GPS module were interfaced with the Quadcopter's frame. Individual components were tested and verified to work properly. Calibration and tuning of the PID controller was done to obtain proper stabilization on each axis using custom PID test benches. Currently, the Quadcopter can properly stabilize itself, determine its location. This report also described the auto-commands that can be implementing at a later stage. Most of the goals in this project have been achieved, resulting in a stable and maneuverable Quadcopter.

- **Material Sorting Machine**

Name of the Students: K Karthik and N Rishidharan

Name of the Guide: Mrs.K Saraswathi

Now a day's sorting of materials in garbage industries are made manually. There may be chance of errors in sorting. We have implemented a solution for replacing human by automatic control without manual power. The project detects the objects of different materials and segregate

in two different boxes. By usage of sensors decreases the errors in sorting and reduces the man power. The proposed system involves metal detector, plastic detector for sensing weight and for sorting purpose linear motion electrical actuators are used. The sensors and actuators are controlled by using PIC16F877a microcontroller. When the sensor senses the material concerned the actuator actuates according to program that is dumped in the controller. The actuators are actuated motor controller that gets the input from controller and outputs to the actuators. The sensors are connected to the controller.

- **Smart Agriculture Using IOT**

Name of the Students: M Vishnu Sreekar and Ramesh Pavan

Name of the Guide: Mrs. K Sugapriya

Climate changes and rainfall has been erratic over the past decade. Due to this in recent era, climate-smart methods called as smart agriculture is adopted by many Indian farmers. Smart agriculture is an automated and directed information technology implemented with the IOT (Internet of Things). IOT is developing rapidly and widely applied in all wireless environments. In this paper, sensor technology and wireless networks integration of IOT technology has been studied and reviewed based on the actual situation of agricultural system. A combined approach with internet and wireless communications, Remote Monitoring System (RMS) is proposed. Major objective is to collect real time data of agriculture production environment that provides easy access for agricultural facilities such as alerts through Short Messaging Service (SMS) and advices on weather pattern, crops etc.

PROJECT PHASE – II

S. No	Register number	Name of the student	Title of the project	Project type	Name of the guide
1	11159G002	Jayanth Sarangan	STUDY AND DESIGN OF PI CONTROLLER BASED ON ANT COLONY OPTIMIZATION TECHNIQUE FOR NON – INTERACTING LQUID LEVEL PROCESS	Internal	Ms.Janani R
2	11159G004	M Praveen			
3	11159G003	A R Krishnan	SUBMERSIBLE ROVER	Internal	Mr.S S Saravana Kumar
4	11159H001	K K Akash Krishna			
5	11159H002	D Aparna	SENSOR ASSISTED BRAKING SYSTEM	Internal	Mr. N C A Boovarahan
6	11159H004	C S Hari Hara Ganesh			
7	11159H006	L Saivineeth	PESTICIDE SPRAYING USING QUAD-COPTER	Internal	Mrs.T Lakshmibai
8	11159H010	K Siva Subramanian			
9	11159H005	K Karthik	AIR COMPRESSOR AUTOMATION USING PLC	External	Mrs.K Saraswathi
10	11159H007	M Vishnu Sreekar			
11	11159H010	N Rishidharan			
12	11159H008	J Rakesh	LINE FOLLOWER BIPEDAL ROBOT	Internal	Mr. T Sundar
13	11159H009	Ramesh Pavan			

ABSTRACTS (PHASE – II)

- **Study and Design of PI Controller based on ANT Colony Optimization Technique for NON – Interacting Liquid Level Process**

Name of the Students: Jayanth Sarangan and M Praveen

Name of the Guide: Ms. Janani R

PI controller is one of the most popular controller used in the industry due to its simple structure, robust performance and easy implementation. For proper functioning, proper and quick tuning of its parameter (Kp and Ki) is required. Different methods to achieve this objective, have been described in this project. The work carried out here relates to tuning of PI controllers using Ant Colony Optimization. Other tuning methods have also been studied and comparison between conventional algorithms, Fuzzy logic controller and Ant colony optimization technique has been obtained. The design objective is to apply the ant colony algorithm in the aim of tuning the optimum solution of the PI controllers (Kp and Ki) by minimizing the function. The potential of Ant Algorithms to identify optimal solution is demonstrated with the help of Simulink model and MATLAB. This controller is then applied to the non-interacting SISO liquid level system in the process control lab. And the performance characteristics of the system under various optimization techniques are obtained.

- **Submersible Rover**

Name of the Students: A R Krishnan and K K Akash Krishna

Name of the Guide: Mr. S S Saravana Kumar

The purpose of this project was to find the best robot configuration for climbing and descending stairs, in addition to travelling on flat surfaces and amphibian motion. Candidate robot types were analyzed to find the most suitable one for further study, based on stability, size and energy consumption. Based on these considerations, the non- variable configuration trucking robot type was selected. The basic robot parameters (minimum track size, comparison of tracks with grousers, track angle of attack) were determined by studying existing research papers on the topic. Dynamic analysis methods were then employed to refine the geometry and ensure the stability of the robot when climbing and descending stairs using mathematical calculations. The propeller designs are best suited to clear and salt water lakes were selected for this project.

- **Sensor Assisted Braking System**

Name of the Students: D Aparna and C S Hari Hara Ganesh

Name of the Guide: Mr. N C A Boovarahan

Automotive industries are one of the fastest growing industries in the world in terms of high demand as well in technological development. There have been a lot of technical concepts introduced in automotive industry to improve comfort, more efficiency, cost reduction and environment friendly. From past century the braking system of vehicle has not evolved much, only on small extra application like

ABS, EBD etc. As of from small to exotic vehicles use only two type braking system and mode of operation, they are DISC and DRUM brakes and the mode of operation is by hydraulic and pneumatic actuations. The hydraulic constitutes high percentage it more the 80 percent and pneumatic constitutes remaining. They have separate booster to integrate the leg pressure to stop vehicle, and a separate hose lining to all four wheels.

- **Pesticide Spraying Using Quad-Copter**

Name of the Students: L Saivineeth and K Siva Subramanian

Name of the Guide: Mrs .T Lakshmibai

The main purposes of our project are to apply pesticides in the agriculture fields. Currently 36.5% for global crop production is lost due to disease, pests and weeds. Following the report of ASSOCHAM (Associated Chambers of Commerce and Industry of India) annual crop loss is due to pest and diseases amount to Rs.50,000 crore. It is significant loss for a country. The WHO (World Health Organization) estimated as 1 million cases of ill affected, when spraying the pesticides in crop field manually. The UAV (Unmanned Aerial Vehicles) are used to spray the pesticide to avoid the health problems of humans when they spray manually. The quad – copter mounted sprayer mainly consists of BLDC motor, Li-Po batteries (lithium polymer) pesticide tank, pump and supporting frame. This sprayer is very useful where human interventions are not possible for spraying of chemicals on crops including rice fields and orchard crops as well as crops under terrain lands. This technology greatly helpful for small farming community in reducing cost of pesticide application and environmental pollution but also biological efficiency of application technology.

- **Air Compressor Automation Using PLC**

Name of the Students: K Karthik, M Vishnu Sreekar and N Rishidharan

Name of the Guide: Mr.K Saraswathi

The composition and operational principle of an Air Compressor constant pressure air supply system based on PLC and converter. In the system, the High-voltage inverter which can control two motors, make the system obtain a constant pressure gas by controlling a piston compressor speed. Others, due to the systems involved the communication between different PLC and other equipment's; we solved this problem to build a communications network through the use of different communication protocols. Base on a mine, we introduced specifically the system how to achieve.

- **Line Follower Bipedal Robot**

Name of the Students:J Rakesh and Ramesh Pavan

Name of the Guide: Mr.T Sundar

A bipedal robot is a resemblance of half humanoid structure which has only the bottom part of the robot. We are modifying the Humanoid robot which is completed in Phase I to Line follower bipedal robot. The line follower robot is a mobile machine that can detect and follow the line drawn on the floor.

Generally, the path is predefined and can be either visible like a black line on a white surface with a high contrasted color or it can be invisible like a magnetic field. Definitely, this kind of robot should sense the line with its infrared ray sensors that installed over the feet of the bipedal robot. After that the data is transmitted to the processor by specific transition buses. Hence, the processor is going to decide the proper commends and then it sends them to the driver and thus the path will be followed by the line follower robot. In this project, we have illustrated that the bipedal robot is in a closed loop system. The main role of the IR sensor is to sense and trace the line with the help of IR LED and Photo Diode.

15.PUBLICATIONS

JOURNAL

S.NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	JOURNAL DETAILS	INDEXING
1.	T. Lakshmibai Assistant Professor	Self B- Adaptive Key Generation For Primary Users In Cognitive Radio Networks For Less Prone Primary User Emulation Attacks	International Journal Of Future Generation Communication And Networking -2018 Vol 11, Issue -1 ISSN – 2233-7857	Emerging Sources Citation Index (ESCI) (Web Of Science)
2	Janani. R Assistant Professor	Identifying The Stabilizing Region Of Pid Controller Using Polytopic Polynomial Approach For Pilot Plant Binary Distillation Column	International Journal Of Pure And Applied Mathematics -2018 Vol. 118, Issue -18 Issn – 1314-3395	Scopus Indexed
3.	Janani. R Assistant Professor	Experimental Implementation Of Cdm Based Two Mode Controller For An Interacting 2*2 Distillation Process	International Journal Of Pure And Applied Mathematics-2018 Vol. 118, Issue -18 Issn – 1314-3395	
4.	Janani. R Assistant Professor	Design Of Imc Based Independent Multi Loop Pi Controller For Interacting Pilot Plant Distillation Column	Journal Of Advanced Research In Dynamical And Control Systems-2018 Vol. 10, Issue -04 Issn – 1943-023x	

S.NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	JOURNAL DETAILS	INDEXING
5	Janani. R Assistant Professor	Application of LabVIEW in Digital System Design and Image Processing	International Journal of Scientific Research in Science, Engineering and Technology, Vol. 5, Issue 1, 2018 ISSN – 2395-1990	UGC
6.	T. Sundar Assistant Professor	Statistical Ratio Analysis And Overview Of Growth In Power Energy System In India	International Journal Of Scientific Research In Science, Engineering And Technology, Vol. 5, Issue 1, 2018 Issn – 2395-1990	
7	K.Sugapriya Assistant Professor	Performance Analysis of Simple Microstrip Patch Antenna	International Journal of Electronics, Electrical and Computational System-2018 Vol. 7, Issue -1 ISSN – 2348-117X	
8.	K. Saraswathi Assistant Professor	Anonymity Protection To Source, Destination And Routes In Manets	International Journal For Scientific Research And Development Ijsrd Vol. 6, Issue 3, 2018 Issn – 2321-0613	

INTERNATIONAL CONFERENCE PROCEEDINGS

S.NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	CONFERENCE DETAILS
1.	T. Sundar Assistant Professor	Improvement Of Dynamic Response In Proportional Resonant Controlled Interleaved Buck Boost Converter Inverter Based Solar System	International Conference On Electrical, Electronics, Computers, Communication, Mechanical And Computing (EECCMC)-2018
2.	Janani. R Assistant Professor	Simple Way Of Tuning Centralized PI Controller For Interacting Pilot Plant Distillation Column	International Conference Of Intelligent Communication, Control And Devices, UPES, Dehradun-2018
3.	K.Sugapriya, Assistant Professor	U-Slot Microstrip Patch Antenna For Ultra-Wideband Applications	International Conference On Cognitive Computing, Communication And Informatics Systems ICCCCIS-2018
4.	S. S. Saravanakumar Assistant Professor	Power Efficient Resource Allocation Of OFDMA Wireless Network	International Conference On Cognitive Computing, Communication And Informatics Systems ICCCCIS-2018
5.	N. C. A. Boovarahan Assistant Professor	Enhancement Of Power Efficiency In 5G-Massive MIMO System Using Innovative Algorithm Tech	International Conference On Cognitive Computing, Communication And Informatics Systems ICCCCIS-2018

NATIONAL CONFERENCE PROCEEDINGS

S.NO	NAME OF THE FACULTY	TITLE OF THE ARTICLE	CONFERENCE DETAILS
1.	K. SARASWATHI Assistant Professor	PID Controller for Interacting and Non-Interacting Level Process using LabVIEW	National Conference on Innovative Research on Robotics, Circuits and Technology -2018 ISBN 97893-87088-23-8
2.	K. SARASWATHI Assistant Professor	Non-Contact ECG Monitoring System with Arrhythmia Alert	National Conference on Innovative Research on Robotics, Circuits and Technology -2018 ISBN 97893-87088-23-8
3.	T. Sundar Assistant Professor	Statistical Ratio Analysis and Overview of Growth in Power Energy System in India	National Conference on Innovative Research on Robotics, Circuits and Technology -2018 ISBN 97893-87088-23-8
4.	Janani. R Assistant Professor	Application of LabVIEW in Digital System Design and Image Processing	National Conference on Innovative Research on Robotics, Circuits and Technology -2018 ISBN 97893-87088-23-8
5.	Janani. R Assistant Professor	Digital Clock using Microcontroller in Multisim	National Conference on Trends in Instrumentation and Automation -2018
6.	T. Lakshmibai Assistant Professor	Smart Parking System using RFID	National Conference on Innovative Research on Robotics, Circuits and Technology -2018 ISBN 97893-87088-23-8
7.	T. Lakshmibai Assistant Professor	Quadrotor Using Arduino	National Conference on Innovative Research on Robotics, Circuits and Technology -2018 ISBN 97893-87088-23-8
8.	K.Sugapriya Assistant Professor	Rectangular Microstrip Patch Antenna Design	National Conference on Innovative Research on Robotics, Circuits and Technology -2018 ISBN 97893-87088-23-8

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

S.NO	ACC.NO	TITLE OF BOOKS
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

S.NO	ACC.NO	TITLE OF BOOKS
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

S.NO	ACC.NO	TITLE OF BOOKS
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

S.NO	ACC.NO	TITLE OF BOOKS
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

S.NO	ACC.NO	TITLE OF BOOKS
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

S.NO	ACC.NO	TITLE OF BOOKS
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)

S.NO	ACC.NO	TITLE OF BOOKS
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 Co-Efficient Of Orific Plate (VFMT03)	1	35289.76
11	Discharge Co-Efficient 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 Watt Meter	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	NAMEOF THE EQIPMENT	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 Co-Efficient Of Orific Plate (VFMT03)	1	28-04-2011
11	Discharge Co-Efficient 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	NAMEOF THE EQIPMENT	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

DESIGN AND IMPLEMENTATION OF LAB KITS

DIGITAL IC TRAINER KIT

Digital IC Trainer Kit is designed and assembled by Senior Lab Instructor Mr. G.Subramaniyan along with three Mechatronics students for utilizing the same in the Analog and Digital Electronics Laboratory which costs only 30% of the total cost.

18.GUEST LECTURES AND VISITING FACULTY DETAILS

S.No.	Name of the expert & Address	Topic	Date
1	Ms.B.Sharmila, Engineer / costing and budgeting, Ganeshvar Electricals Pvt ltd, Porur, Chennai.	Role of Engineers in Automobile Engg	18.09.18
2	Mr.K.Senthilkumar, Engineer / Quality and assurance, Ganeshvar Electricals Pvt ltd, Porur, Chennai.	Quality control in industries	18.09.18
3	Dr.Ablelaziz Hamdoun, Carleton University, Canada.	Frequency Reconfigurable Active Antennas	31.01.19
4	Dr.Wsanna Boonsong, Scholl of Electrical and Electronics Engg University Sains, Malaysia (VSM)	Performance anaysis of wireless Attendance monitoring system using bluetooth application over RFID platform	31.01.19
5	Sri.Muthuswamy Chandran, Formar senior Vice President, Reliance communication Ltd	Role of young engineers in career opportunities core industries	07.03.19

EXPERTS VISIT

S.No.	Name of the expert	Industry/ Institution
1	S.Subbiah Pillai, Asst.Vice President	Dalavoi works, T.S.N nagar, The India Cements LTD, Cement Nagar, Ariyalur-621730
2	Dr. Asokan, Prof. / Department of Electronics &Instrumentation Engineering,	Annamalai University. Chidambaram.

19.STUDENTACTIVITIES

IN-PLANT TRAINING

S.No.	Register No.	Name of the student	Duration	Place / Industry
1	11159H002, 11159H004	APARNA.D & C.S HARIHARAGANESH (IV year Mechatronics)	14/05/2018 To 18/05/2018	Brakes India Ltd.,
2	11169H007	K.P.MANIGANDAN (III year Mechatronics)	11/06/2018 To 16/06/2018	DAE JIO India Pvt Ltd.,
3	11169H003, 11169H012, 11169H019	S.SUSHIL, M.GUHAN, M.SULTHAN (III year Mechatronics)	11/06/2018 To 22/06/2018	Amalgamations VALEO Clutch Pvt Ltd.,
4	11169H003	M.GUHAN, (III year Mechatronics)	25/06/2018 To 27/06/2018	TVS Motor company, Hosur.

INTERNSHIP

S.No.	Register No.	Name of the student	Duration	Place / Industry
1	11159G002, 11159G003, 11159G004	S.JAYANTH, A.R.KRISHNAN, M.PRAVEEN (IV year EIE)	12/03/2018 To 17/03/2018	India Cements Ltd.,
2	11169H014	B.HARSHAVARDHAN (III Yr Mechatronics)	14/06/2018 To 28/06/2018	APTAR India Pvt Ltd.,
3	11159G002, 11159G003	S.JAYANTH, A.R.KRISHNAN (IV year EIE)	25/06/2018 To 29/06/2018	Chennai Petro Chemical Ltd.,

INDUSTRIAL VISITS

S.No.	Department	Name of the Company	Date
1	EIE & Mechactronics	Rail neer plant- Pallur Walajabath	14.08.2018
2	I yr, II yr, III yr EIE & MECHATRONICS Engg	Kudankulam Nuclear power plant	22.09.2018
3	I yr, II yr, III yr EIE & Mechatronics Engg	Mettur Thermal Power Plant	26.09.2018
4	EIE & MECHATRONICS	JTEKT India pvt ltd Sriperumpudur.	28.01.2019
5	EIE & MECHATRONICS	HYUNDAI motor Pvt ltd, Irrungattukottai.	29.01.2019
6	EIE & MECHACTRONICS	TVS Company	28.02.2019

LEARNING OUTCOME REPORT- INDUSTRIAL VISITS

1) RAIL NEER PLANT (PALUR) -14.08.2018

Students got opportunity to visit Indian Railway Catering and Tourism Corporation (IRCTC), which is providing clean, safe and hygienic water to railway passengers. Students learnt the following sections in the plant in detail.

- It has the Third plant to produce Rail Neer, which was commissioned in July 2011.
- It is located at Kanchipuram.
- This plant has the highest capacity of 1.8 lakh bottles per day.

It is equipped with latest models of Bottle Blowing machines. For the first time, automatic hot flue labeling machine and shrink packing of bottles has been introduced by IRCTC

Water Treatment Section:

The plant technology employs 8 purification processes capable of yielding water quality conforming to BIS standard IS 14543-2004. Each Process is explained below.

1. Activated Carbon Filter; Stage 1 & 2
2. Auto Softener Unit (ASF)
3. Ultra Filtration Unit
4. Reverse Osmosis
5. Marble Chip Filter:
6. Two stage Micron Filters
7. Ultra Violet Sterilizer Unit
8. Ozonising Unit

Automatic Bottle Blowing Machine:

Preforms are made only with HUSKY or Krosmafi machine. Preform will be locked in such a way that the capping part is kept outside while tube like part is inside the mould cavity. The mould will have the shape of Bottle. Hot air is blown into preform which makes it to expand. A hot rod will stretch the bottle to its full length. Then it is cooled before sending to conveyor.

Conveyor System:

This Air conveyor system is Electro - Neumatic. Neumatic controller is actuated by electric signal. According to that, Controller will control the movement of bottles.

Automatic Rinsing Filling & Capping, Seal Checking and Labeling and Packing

The bottles are rinsed in inverted position by very high pressure jet and passed to capper where the same get capped. Then operators will check the Seal and for any leakage. The Bottles are arranged in 4X3 pattern in a box. Then box is covered by a Polyethylene Sheet after appropriate process.

2) KUDANKULAM NUCLEAR POWER PLANT (KKNPP) ON 22.09.2018

Students of EIE department had a Industrial Visit to KKNPP (Kudankulam Nuclear Power Plant) at Tirunelveli district, Tamilnadu on 22.09.2018, accompanied by staff members.

- India's long-term Nuclear Power Programme based on thorium resources for electricity generation commissioned at Kudankulam with two nuclear power reactors, each with capacity of 1000 MW.
- Each reactor consists of four primary coolant circuits, each primary coolant circuit comprising of one reactor coolant pump, one steam generator which circulates the coolant through the reactor core & remove the heat from the core during normal operation.
- The secondary circuit comprising of Steam turbine, condensers, feed pumps etc which delivers the steam from the each steam generator to the turbine to produce power & returns the condensed water from the condenser to the steam generators.
- The students actively interacted with the scientists in the Nuclear Plant regarding the processes involved.

3) METTUR THERMAL PLANT- 26.09.2018

The students of Electronics and Instrumentation Engineering and Mechatronics Engineering has been given permission to visit Mettur Thermal Power Station on 26-09-2018, around 9.00AM.The Mettur Thermal Power Station is a coal-fired electric power station located in Mettur, Salem district of Tamil Nadu. It is operated by Tamil Nadu Generation and Distribution Corporation Limited. The power station was commissioned during various periods from 1987 and this is the first inland thermal Power Station of TANGEDCO.

- Students got an opportunity to learn about how a raw material (coal) is obtained and how thermal power is generated with the help of coal.
- Students got an opportunity to visit the control room where the temperature of the boiler and the speed of turbine is controlled using SCADA.
- Students also got knowledge of safety measures to be carried out in the workplace.

- Students also got an opportunity to visit hydro power plant.

4) JTEKT Private Limited - 28.01.2019

- JTEKT Private Limited is India's largest manufacturer of steering systems for passenger cars, utility vehicles, and light commercial vehicles.
- To become part of JTEKT Group, the name of the Company was changed from Sona Koyo Steering Systems Limited to JTEKT India Limited on April 7, 2018.
- The company has been set up to manufacture Column-Electric Power Steering System (C-EPS) for passenger cars.
- C-EPS is the next generation technology for Automotive Steering, which in addition to superior features also addresses environmental concerns.
- Students visited various sections and learnt the functioning of each.
- Especially the Induction heating method is demonstrated well.

5) HYUNDAI MOTORS -29.01.2019

The students of Electronics and Instrumentation Engineering and Mechatronics Engineering have been given permission by the officials of Hyundai motors to visit the industry on around 9.00 AM. The Hyundai motors Pvt Ltd is a South Korean multinational automotive manufacturer headquartered in Seoul. Hyundai Motor Company was founded in 1967. It is the third largest vehicle manufacturer in the world.

- Students got an opportunity to know how fast assembling of various parts in an Automobile industry is carried out.
- Students observe the function of the robotic arm with 8 degrees of freedom is used to fix the doors for the car.
- Students got a chance to learn how a robot works in the process of spray painting.
- Students also got an opportunity to know how testing the speed of car& the quality of car tyres are tested.

6) TVS TRAINING - 28.02.2019

- The workshop "**INDUSTRIAL AUTOMATION"** by TVS Training and Services Ltd on 27-02-2019 was conducted. As a part of the workshop on 28-02-2019 the same students visited TVS Training and Services Ltd at Ambattur Industrial Estate, Chennai.

Seminars / Conferences / Workshop / Training attended by the Students

Sl. No.	Name of the students	Nature of the events	Place	Date
1	S.SUSHIL, (III Yr Mechatronics)	Machines Expo	Chennai Trade centre	24/06/2018
2	APARNA.D & C.S HARIHARAGANESH (IV year Mechatronics)	The Hindu Auto Expo	Chennai Trade Centre	25/08/2018
3	S.SUSHIL, M.GUHAN, M.VIVEK (III Yr Mechatronics)	Robotics with Raspberry pi	EDJOY,Chennai	26/08/2018
4	S.SRINIVASA RAGHAVAN (III Yr Mechatronics)	Project expo	Deenish ahmed college of Engg	01/09/2018
5	APARNA.D (IV year Mechatronics)	Women entrepreneurship from waste management	Jain university, Banglore	03/09/2018 & 04/09/2018
6	B.PRADYUMNA	PLC workshop participation	BEC	15/02/19
7	S.SRINIVASA RAGHAVAN	IEEE- Project Expo 2019	SCSVMV	15/03/19
8	MANNAVA VIVEK SARNESWARAN	IEEE- Project Expo 2019	SCSVMV	15/03/19
9	S.SRINIVASA RAGHAVAN	Waste management project	Sathyabama university chennai	27/03/19
10	S.SRINIVASA RAGHAVAN	AI Ultimate vehicle vision	Dept of civil SCSVMV	28/03/19
11	Shashank Korde	Matribhasa Diwas	SCSVMV	21.02.2019
12	Srinivasa Raghavan. S (selected to participate)	i4c and persistant systems for identifying a unique open innovation model in technology.	IIT Bhilai chattisgarh	02.03.2019 & 03.03.2019

Paper presented by the Students

S.No.	Name of the student	Paper presentation	Place	Date
1	S.JAYANTH, A.R.KRISHNAN (IV year EIE)	Digital clock using Micro controller and MultiSim	Velammal Engineering College	28/03/2018
2	V.VIJAYARAGAVAN, S.SUSHIL, M.GUHAN (III Yr Mechatronics)	Smart parking system using IOT	RMK Engg College	27/08/2018
3	S.SRINIVASA RAGHAVAN (III Yr Mechatronics)	The GRECOOLUIT (New idea)	KCG College of Technology	21/08/2018
4	S.JAYANTH	Digital clock using micro controller	Kongu Engg College	25/01/19
5	V.GNANA SAGAR & S.JAYANTH	Comparative analysis of conventional PI controller	Kongu Engg College	25/01/19
6	S. SUSHIL	IOT based crop maitance	CIRCUITERZZ 2K19	08/03/19
7	APARNA.D & C.S HARIHARAGANESH	Sensor assisted braking system	National Institute of Technology New Delhi	16/03/19
8	S.JAYANTH, A.R.KRISHNAN	Patient pulse rate monitoring system using Lab VIEW (ECG & Temperature)	National Institute of Technology New Delhi	16/03/19
9	MANNAVA VIVEK	Smart maintenance of bridges using IOT	CIRCUITERZZ 2K19	29/03/19
10	Jayanth sarangan (IV Year) & Vitapu gnana sagar (III Year)	Comparitive analysis of conventional PI controller with fuzzy controller for Non interacting system	Kongu Engg College, Erode	25.01.2019

Extra-Curricular Activities of the students

Sl. No.	Name of the students	Nature of the events	Place	Date
1	Praveen .M	Basket Ball competition	SRM Chennai	22/01/19
2	M.Dhakshnamoorthy	NSS camp	SCSVMV	29/03/19

20.STUDENTS FEEDBACK

ODD SEMESTER

Sl. No	Prefix	Name	Designation	Excelent	Very Good	Good	Average	Poor	NoOf Stud	Point	Score
1	Mr.	V.SWAMINATHAN	Associate Professor & HOD	3	0	0	0	0	3	30	100.00
2	Ms.	K.SARASWATHI	Assistant Professor(Stage -II)	19	12	7	2	0	40	336	84.00
3	Mr.	SUNDAR.T	Assistant Professor	50	17	10	3	0	80	708	88.50
4	Ms.	JANANI R	Assistant Professor	54	28	25	9	1	117	952	81.37
5	Ms.	T.LAKSHMIBAI	Assistant Professor	64	23	18	4	1	110	950	86.36
6	Mr.	G PADMANABHA SIVAKUMAR	Assistant Professor	26	12	4	1	1	44	386	87.73
7	Mr.	SARAVANA KUMAR.S.S	Assistant Professor	55	33	15	1	2	106	912	86.04
8	Mrs.	K.SUGAPRIYA	Assistant Professor	33	25	27	2	2	89	704	79.10
9	Mr.	BOOVARAHAN	Assistant Professor	83	24	13	0	1	121	1102	91.07
10	Mr.	G. SUBRAMANIYAN	Sr.Lab Instructor	7	1	2	0	0	10	90	90.00
11	Ms.	K.KOMATHY	Lab Instructor	5	13	2	0	0	20	166	83.00

EVEN SEMESTER

Sl. No	Prefix	Name	Designation	Excellent	Very Good	Good	Average	Poor	NoOfStud	Point	Score
1	Mr.	V.SWAMINATHAN	Associate Professor & HOD	6	0	0	0	0	6	60	100.00
2	Ms.	K.SARASWATHI	Assistant Professor(Stage-II)	33	12	8	1	0	54	478	88.52
3	Mr.	SUNDAR.T	Assistant Professor	36	8	2	0	0	46	436	94.78
4	Ms.	JANANI R	Assistant Professor	25	18	12	1	0	56	470	83.93
5	Ms.	T.LAKSHMIBAI	Assistant Professor	36	12	6	1	0	55	496	90.18
6	Mr.	G PADMANABHA SIVAKUMAR	Assistant Professor	43	15	5	0	0	63	580	92.06
7	Mr.	SARAVANA KUMAR.S.S	Assistant Professor	53	22	4	1	0	80	734	91.75
8	Mrs.	K.SUGAPRIYA	Assistant Professor	37	30	16	2	1	86	716	83.26
9	Mr.	BOOVARAHAN	Assistant Professor	57	35	12	2	0	106	930	87.74
10	Mr.	G. SUBRAMANIYAN	Sr.Lab Instructor	3	0	0	0	0	3	30	100.00
11	Ms.	K.KOMATHY	Lab Instructor	33	17	12	0	0	62	538	86.77

STUDENT FEEDBACK- FACULTY SUBJECT WISE REPORT - 2018-19 ODD SEMESTER

Emp.Id	Prefix	Name	Sem	Subject Name	Excellent	VeryGood	Good	Average	Poor	NoofStud	Point	Score
10189	Mr.	V.SWAMINATHAN	7	PRINCIPLES OF MANAGEMENT AND PROFESSIONAL ETHICS	3	0	0	0	0	3	30	100
10060	Ms.	K.SARASWATHI	5	CONTROL SYSTEMS LAB	1	0	0	0	0	1	10	100
10060	Ms.	K.SARASWATHI	7	ELECTIVE-I PLC AND SCADA LAB	3	1	4	1	0	9	66	73.33
10060	Ms.	K.SARASWATHI	3	SENSORS AND TRANSDUCERS	0	1	0	0	0	1	8	80
10060	Ms.	K.SARASWATHI	7	COMPUTER CONTROL LAB	3	0	0	0	0	3	30	100
10060	Ms.	K.SARASWATHI	7	COMPUTER CONTROL OF PROCESS	3	0	0	0	0	3	30	100
10060	Ms.	K.SARASWATHI	3	Digital Lab	5	10	3	1	0	19	152	80
10060	Ms.	K.SARASWATHI	7	PLC LAB	2	0	0	0	0	2	20	100
10060	Ms.	K.SARASWATHI	7	PLC AND DATA ACQUISTION SYSTEMS	2	0	0	0	0	2	20	100
10190	Mr.	SUNDAR.T	3	Analog and Digital Electronics Lab	24	7	4	3	0	38	332	87.37
10190	Mr.	SUNDAR.T	3	Analog and Digital Electronics	23	9	6	0	0	38	338	88.95
10190	Mr.	SUNDAR.T	5	POWER PLANT INSTRUMENTATION	0	1	0	0	0	1	8	80

Emp. Id	Prefix	Name	Sem	Subject Name	Excellent	Very Good	Good	Average	Poor	No of Stud	Point	Score
10190	Mr.	SUNDAR.T	7	INSTRUMENATION AND CONTROL IN PETROCHEMICAL INDUSTRIES	3	0	0	0	0	3	30	100
10073	Ms.	JANANI R	3	Analog and Digital Electronics Lab	21	12	14	2	1	50	400	80
10073	Ms.	JANANI R	3	Analog and Digital Electronics	23	15	9	3	0	50	416	83.2
10073	Ms.	JANANI R	7	ELECTIVE-II VIRTUAL INSTRUMENTATION LAB	3	0	2	4	0	9	58	64.44
10073	Ms.	JANANI R	7	VIRTUAL INSTRUMENTATION	2	1	0	0	0	3	28	93.33
10073	Ms.	JANANI R	7	VIRTUAL INSTRUMENTATION LAB	3	0	0	0	0	3	30	100
10073	Ms.	JANANI R	7	VIRTUAL INSTRUMENTATION	2	0	0	0	0	2	20	100
10108	Ms.	T.LAKSHMIBAI	5	POWER ELECTRONICS AND DRIVES LAB	0	0	1	0	0	1	6	60
10108	Ms.	T.LAKSHMIBAI	5	POWER ELECTRONICS AND DRIVES LAB	13	1	2	0	0	16	150	93.75
10108	Ms.	T.LAKSHMIBAI	5	Electronics & Microprocessor Lab	33	16	13	3	1	66	550	83.33
10108	Ms.	T.LAKSHMIBAI	3	ELECTRICAL ENGINEERING	5	4	0	1	0	10	86	86
10108	Ms.	T.LAKSHMIBAI	5	POWER ELECTRONICS AND DRIVES	0	1	0	0	0	1	8	80
10108	Ms.	T.LAKSHMIBAI	5	POWER ELECTRONICS AND DRIVES	13	1	2	0	0	16	150	93.75

Emp. Id	Prefix	Name	Sem	Subject Name	Excellent	Very Good	Good	Average	Poor	No of Stud	Point	Score
10106	Mr.	G PADMANABHA SIVAKUMAR	3	ELECTRONIC DEVICES AND CIRCUITS	7	2	1	0	0	10	92	92
10106	Mr.	G PADMANABHA SIVAKUMAR	3	ELECTRONIC CIRCUITS AND DEVICES LAB	0	1	0	0	0	1	8	80
10106	Mr.	G PADMANABHA SIVAKUMAR	3	ELECTRONIC DEVICES AND CIRCUITS LAB	7	1	1	0	0	9	84	93.33
10106	Mr.	G PADMANABHA SIVAKUMAR	7	EMBEDDED SYSTEMS	5	0	0	0	0	5	50	100
10106	Mr.	G PADMANABHA SIVAKUMAR	3	Digital Principles and System Design	7	8	2	1	1	19	152	80
10203	Mr.	SARAVANA KUMAR.S.S	3	Analog and Digital Electronics Lab	25	15	9	1	1	51	430	84.31
10203	Mr.	SARAVANA KUMAR.S.S	3	Analog and Digital Electronics	27	17	6	0	1	51	444	87.06
10203	Mr.	SARAVANA KUMAR.S.S	5	DIGITAL SIGNAL PROCESSING	0	1	0	0	0	1	8	80
10203	Mr.	SARAVANA KUMAR.S.S	7	VLSI DESIGN	3	0	0	0	0	3	30	100
10204	Mrs.	K.SUGAPRIYA	3	Analog and Digital Electronics Lab	12	10	11	0	1	34	268	78.82
10204	Mrs.	K.SUGAPRIYA	3	Signals and Systems	5	3	10	1	0	19	138	72.63
10204	Mrs.	K.SUGAPRIYA	3	Analog and Digital Electronics	15	11	6	1	1	34	280	82.35
10204	Mrs.	K.SUGAPRIYA	7	ROBOTICS AND AUTOMATION	1	1	0	0	0	2	18	90

Emp. Id	Prefix	Name	Sem	Subject Name	Excelent	Very Good	Good	Average	Poor	No of Stud	Point	Score
10183	Mr.	BOOVARAHAN	3	Analog and Digital Electronics Lab	32	11	6	0	0	49	444	90.61
10183	Mr.	BOOVARAHAN	3	Analog and Digital Electronics	35	10	4	0	0	49	454	92.65
10183	Mr.	BOOVARAHAN	5	CONTROL SYSTEMS	0	0	1	0	0	1	6	60
10183	Mr.	BOOVARAHAN	5	CONTROL SYSTEMS	11	2	2	0	1	16	140	87.5
10183	Mr.	BOOVARAHAN	5	SENSORS AND ACTUATORS	5	1	0	0	0	6	58	96.67
10184	Mr.	G. SUBRAMANIYAN	5	SENSORS AND ACTUATORS	7	1	2	0	0	10	90	90
10187	Ms.	K.KOMATHY	3	PRINCIPLES OF COMMUNICATION	0	1	0	0	0	1	8	80
10187	Ms.	K.KOMATHY	3	PRINCIPLES OF COMMUNICATION	5	12	2	0	0	19	158	83.16

STUDENT FEEDBACK- FACULTY SUBJECT WISE REPORT - 2018-19 EVEN SEMESTER

Emp. Id	Prefix	Name	Sem	Subject Name	Excellent	Very Good	Good	Average	Poor	No of Stud	Point	Score
10189	Mr.	V.SWAMINATHAN	8	PRINCIPLES OF MANAGEMENT AND PROFESSIONAL ETHICS	6	0	0	0	0	6	60	100
10060	Ms.	K.SARASWATHI	4	Analog and Digital Communications Lab	30	11	7	1	0	49	434	88.57
10060	Ms.	K.SARASWATHI	6	Industrial and Process Control Lab	1	0	1	0	0	2	16	80
10060	Ms.	K.SARASWATHI	6	Analytical Instrumentation	1	1	0	0	0	2	18	90
10060	Ms.	K.SARASWATHI	8	ROBOTICS AND AUTOMATION	1	0	0	0	0	1	10	100
10190	Mr.	SUNDAR.T	4	Analog and Digital Communications Lab	32	8	2	0	0	42	396	94.29
10190	Mr.	SUNDAR.T	6	Industrial Chemical Process	2	0	0	0	0	2	20	100
10190	Mr.	SUNDAR.T	8	AUTOMOTIVE INSTRUMENTATION	1	0	0	0	0	1	10	100
10190	Mr.	SUNDAR.T	8	PROJECT PHASE-II	1	0	0	0	0	1	10	100
10073	Ms.	JANANI R	4	MICROPROCESSOR & MICRO CONTROLLER LAB	20	16	12	1	0	49	404	82.45
10073	Ms.	JANANI R	4	DIGITAL ELECTRONICS	1	0	0	0	0	1	10	100
10073	Ms.	JANANI R	4	DIGITAL ELECTRONICS	1	1	0	0	0	2	18	90

Emp. Id	Prefix	Name	Sem	Subject Name	Excellent	Very Good	Good	Average	Poor	No of Stud	Point	Score
10073	Ms.	JANANI R	6	Simulation Lab	1	1	0	0	0	2	18	90
10073	Ms.	JANANI R	6	Process Control Instrumentation	2	0	0	0	0	2	20	100
10108	Ms.	T.LAKSHMIBAI	4	Linear Integrated Circuits& Digital Lab	1	0	0	0	0	1	10	100
10108	Ms.	T.LAKSHMIBAI	4	Analog and Digital Communications Lab	24	11	6	1	0	42	368	87.62
10108	Ms.	T.LAKSHMIBAI	4	LIC and Digital Electronics Lab	1	1	0	0	0	2	18	90
10108	Ms.	T.LAKSHMIBAI	4	Linear Integrated Circuits	3	0	0	0	0	3	30	100
10108	Ms.	T.LAKSHMIBAI	8	AIRCRAFT INSTRUMENTATION	7	0	0	0	0	7	70	100
10106	Mr.	G PADMANABHA SIVAKUMAR	4	Microprocessor & Micro Controller Lab	31	12	5	0	0	48	436	90.83
10106	Mr.	G PADMANABHA SIVAKUMAR	4	Measurement & Instrumentation Lab	1	2	0	0	0	3	26	86.67
10106	Mr.	G PADMANABHA SIVAKUMAR	4	Measurement & Instrumentation	2	0	0	0	0	2	20	100
10106	Mr.	G PADMANABHA SIVAKUMAR	4	Measurements and Instrumentation	1	0	0	0	0	1	10	100
10106	Mr.	G PADMANABHA SIVAKUMAR	6	Embedded System	8	1	0	0	0	9	88	97.78
10203	Mr.	SARAVANA KUMAR.S.S	4	Analog and Digital Communications Lab	28	16	3	1	0	48	430	89.58
10203	Mr.	SARAVANA KUMAR.S.S	4	Microprocessor & Micro Controller Lab	17	6	1	0	0	24	224	93.33

Emp. Id	Prefix	Name	Sem	Subject Name	Excelent	Very Good	Good	Average	Poor	No of Stud	Point	Score
10203	Mr.	SARAVANA KUMAR.S.S	4	Signals and Systems	1	0	0	0	0	1	10	100
10203	Mr.	SARAVANA KUMAR.S.S	8	BIO MEDICAL INSTRUMENTATION	1	0	0	0	0	1	10	100
10203	Mr.	SARAVANA KUMAR.S.S	8	PROJECT PHASE-II	6	0	0	0	0	6	60	100
10204	Mrs.	K.SUGAPRIYA	6	Micro Electro Mechanical systems- MEMS	1	3	1	0	0	5	40	80
10204	Mrs.	K.SUGAPRIYA	6	Micro Electro Mechanical systems- MEMS	4	1	0	0	0	5	48	96
10204	Mrs.	K.SUGAPRIYA	4	Analog and Digital Communications Lab	16	19	11	2	1	49	388	79.18
10204	Mrs.	K.SUGAPRIYA	4	Microprocessor & Micro Controller Lab	15	6	4	0	0	25	222	88.8
10204	Mrs.	K.SUGAPRIYA	6	Fiber Optics and Laser Instrumentation	1	1	0	0	0	2	18	90
10183	Mr.	BOOVARAHAN	4	Microprocessor & Micro Controller Lab	27	10	4	1	0	42	378	90
10183	Mr.	BOOVARAHAN	4	Microprocessor/ Micro Controller & Assembly Language Programming Lab	6	9	5	0	0	20	162	81
10183	Mr.	BOOVARAHAN	4	Digital Signal Processing	7	10	3	0	0	20	168	84
10183	Mr.	BOOVARAHAN	6	Microprocessor and Microcontroller Lab	2	0	0	0	0	2	20	100
10183	Mr.	BOOVARAHAN	6	Microprocessors & Microcontrollers Lab	7	3	0	0	0	10	94	94

Emp. Id	Prefix	Name	Sem	Subject Name	Excelent	Very Good	Good	Average	Poor	No of Stud	Point	Score
10183	Mr.	BOOVARAHAN	6	Microprocessor and Microcontroller	1	1	0	0	0	2	18	90
10183	Mr.	BOOVARAHAN	6	Microprocessors & Microcontrollers	7	2	0	1	0	10	90	90
10184	Mr.	G. SUBRAMANIYAN	4	Industrial Instrumentation	1	0	0	0	0	1	10	100
10184	Mr.	G. SUBRAMANIYAN	4	Industrial Instrumentation	2	0	0	0	0	2	20	100
10187	Ms.	K.KOMATHY	4	Microprocessor & Micro Controller Lab	30	6	6	0	0	42	384	91.43
10187	Ms.	K.KOMATHY	4	Microprocessors and Micro Controllers	3	11	6	0	0	20	154	77

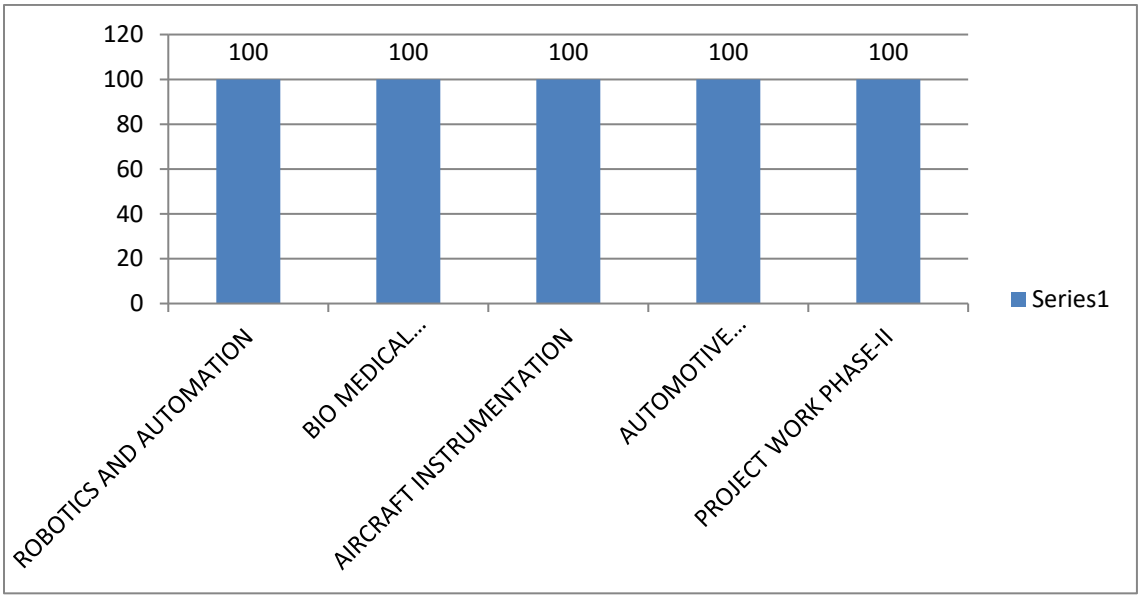
21.RESULT ANALYSIS

RESULT ANALYSIS (2017-2018)
OVER ALL PASS PERCENTAGE FOR EVEN SEMESTERS (2017-2018)

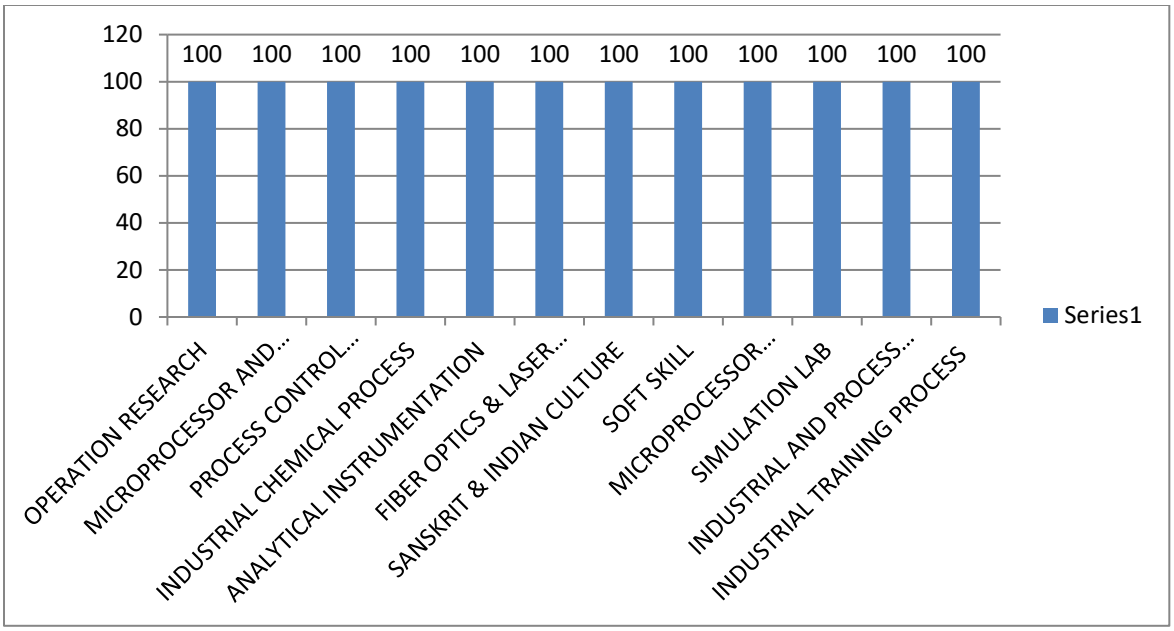
YEAR/SEM	BATCH	PASS PERCENTAGE
1st year/2nd sem	2017-2021	33%
2nd year/4th sem	2016-2020	100%
3rd year/6th sem	2015-2019	100%
4th year/8thsem	2014-2018	100%

Result analysis for Batch (2014-2018)

SEM VIII

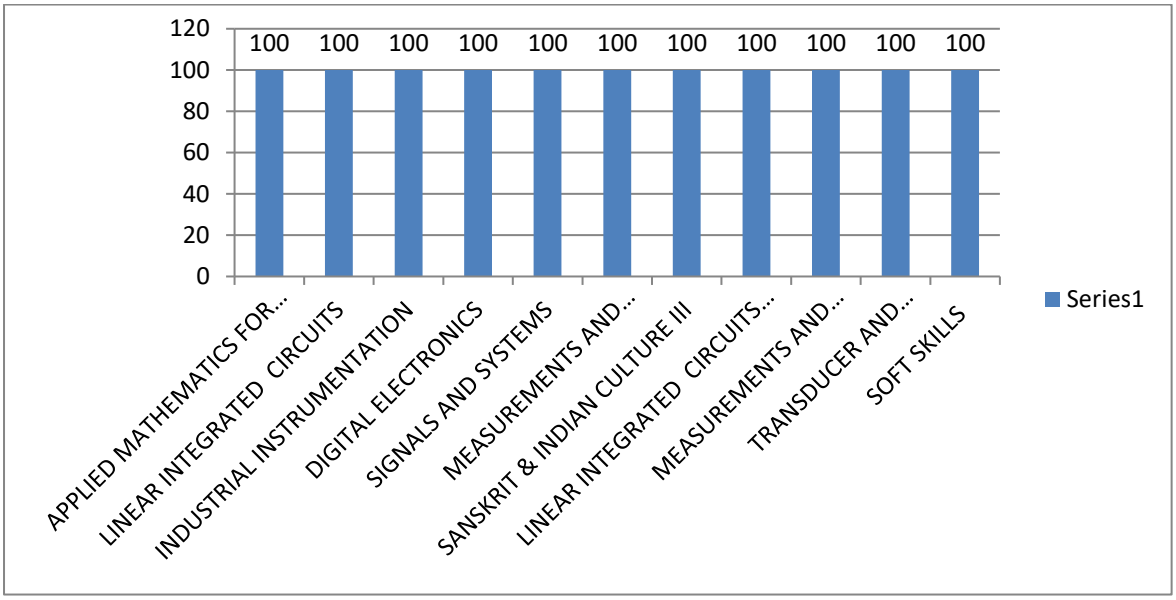


Result analysis for Batch (2015-2019)
SEM VI



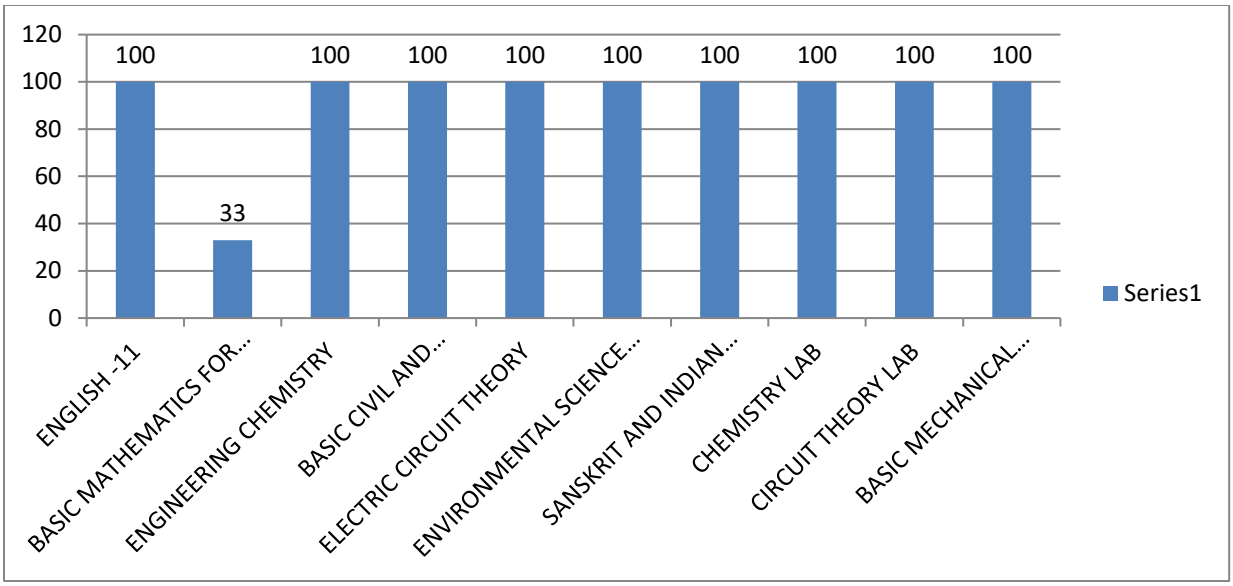
Result analysis for Batch (2016-2020)

SEM IV



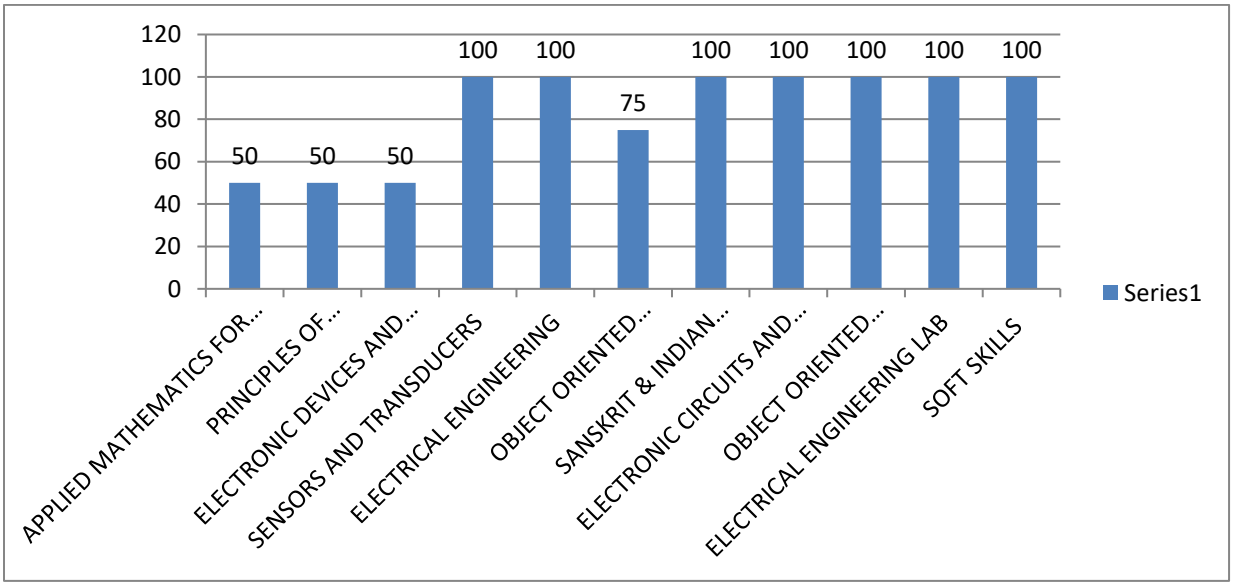
Result analysis for Batch (2017-2021)

SEM II



Result analysis for Batch (2017-2021)

SEM III

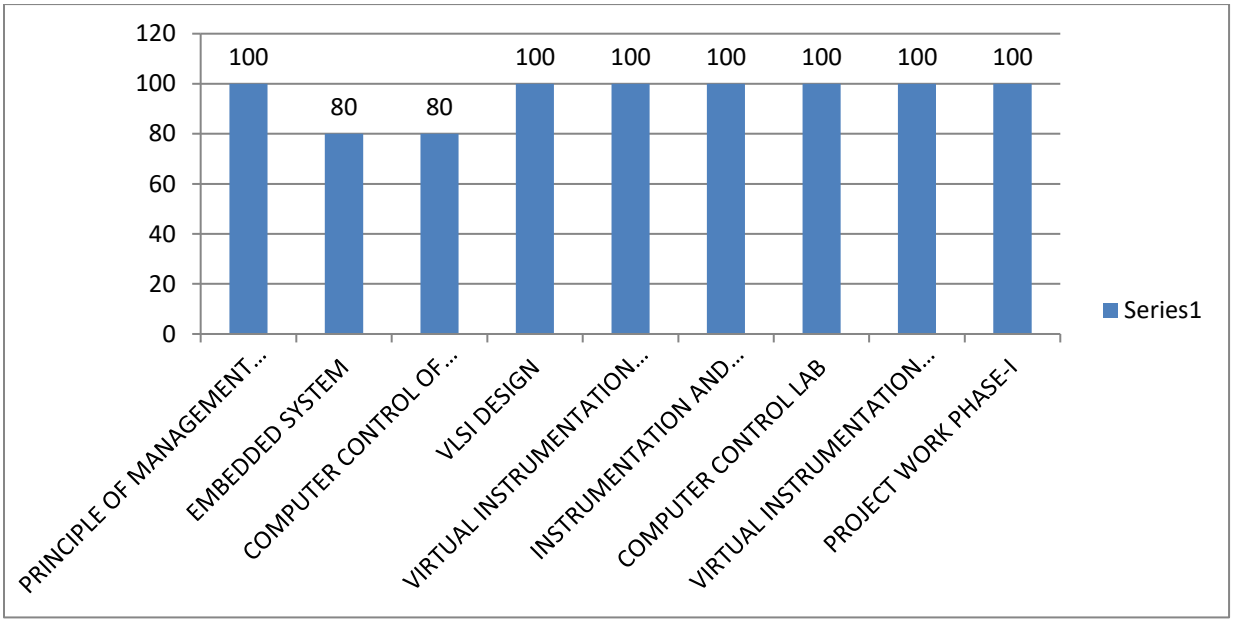


RESULT ANALYSIS (2018-2019)

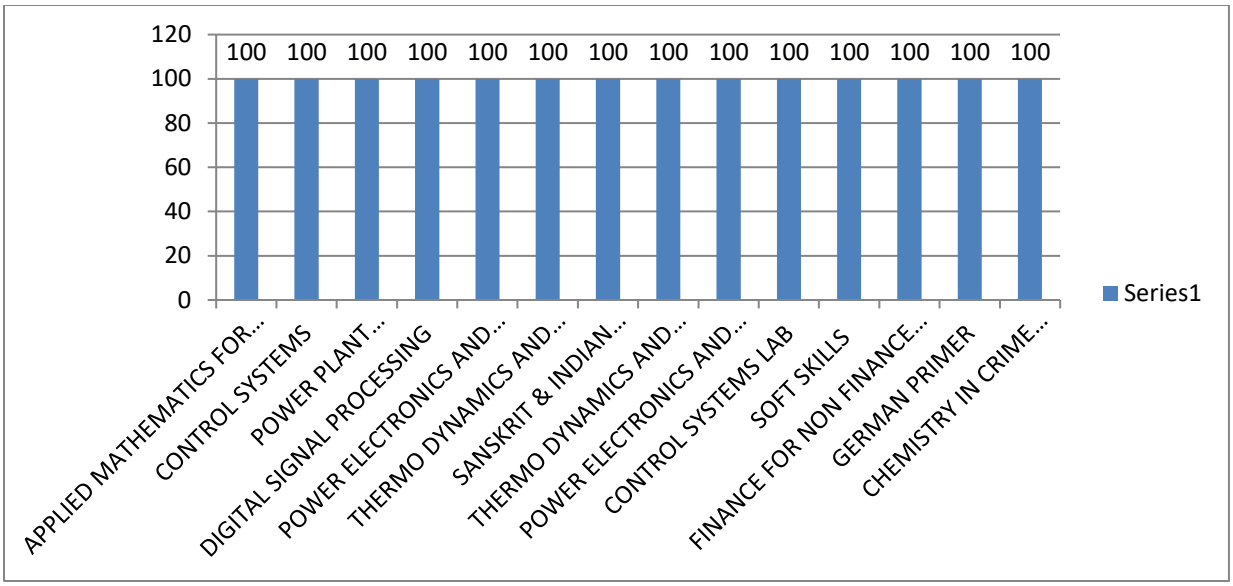
OVER ALL PASS PERCENTAGE FOR ODDSEMESTERS (2018-2019)

YEAR/SEM	BATCH	PASS PERCENTAGE
1st year/1st sem	2017-2021	50%
2nd year/3rd sem	2016-2020	100%
3rd year/5th sem	2015-2019	100%
4thyear/7th sem	2014-2018	60%

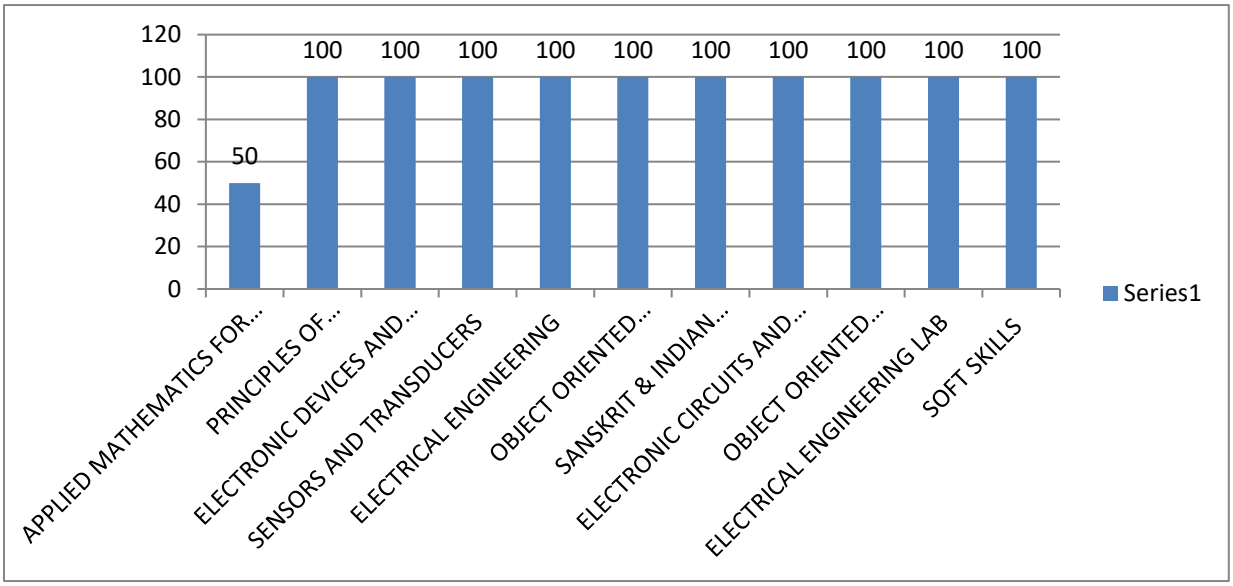
Result analysis for Batch (2014-2018)
SEM VII



Result analysis for Batch (2015-2019)
SEM V

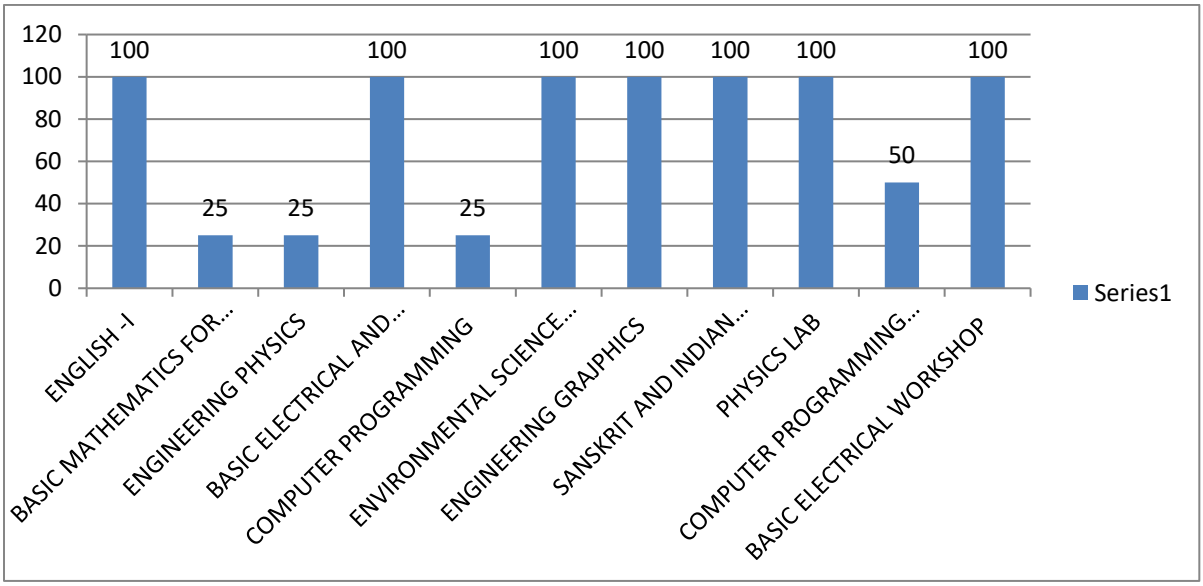


Result analysis for Batch (2016-2020)
SEM III



Result analysis for Batch (2017-2021)

SEM I



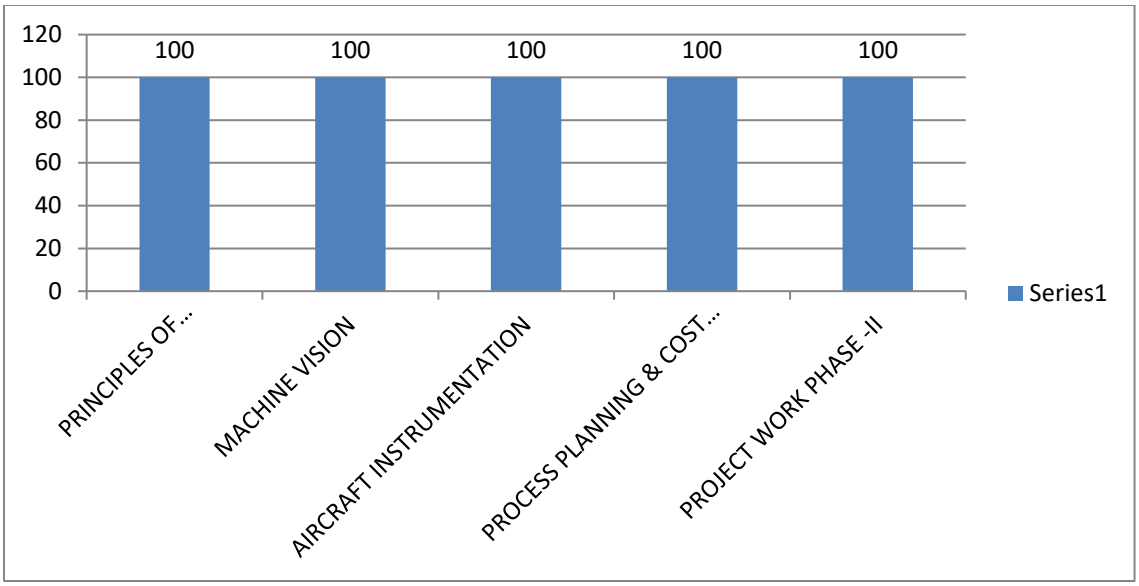
RESULT ANALYSIS (2017-2018)

OVERALL PASS PERCENTATGE

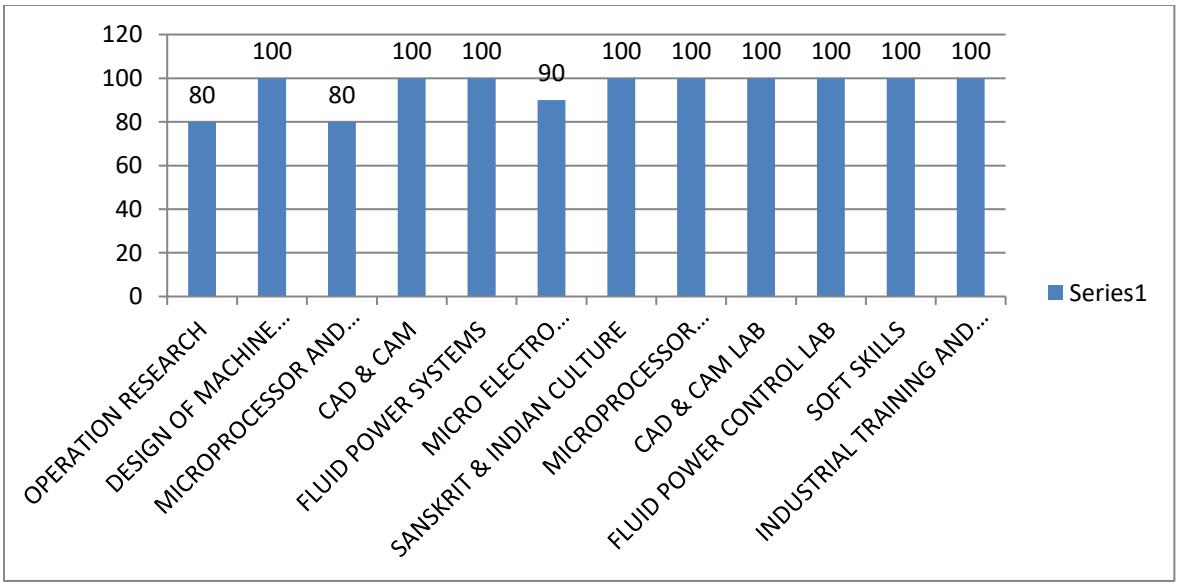
YEAR/SEM	BATCH	PASS PERCENTAGE
1st year/2nd sem	2017-2021	69%
2nd year/3rd sem	2016-2020	50%
3rd year/6th sem	2015-2019	80%
4th year/8th sem	2014-2018	100%

Result analysis for Batch (2014-2018)

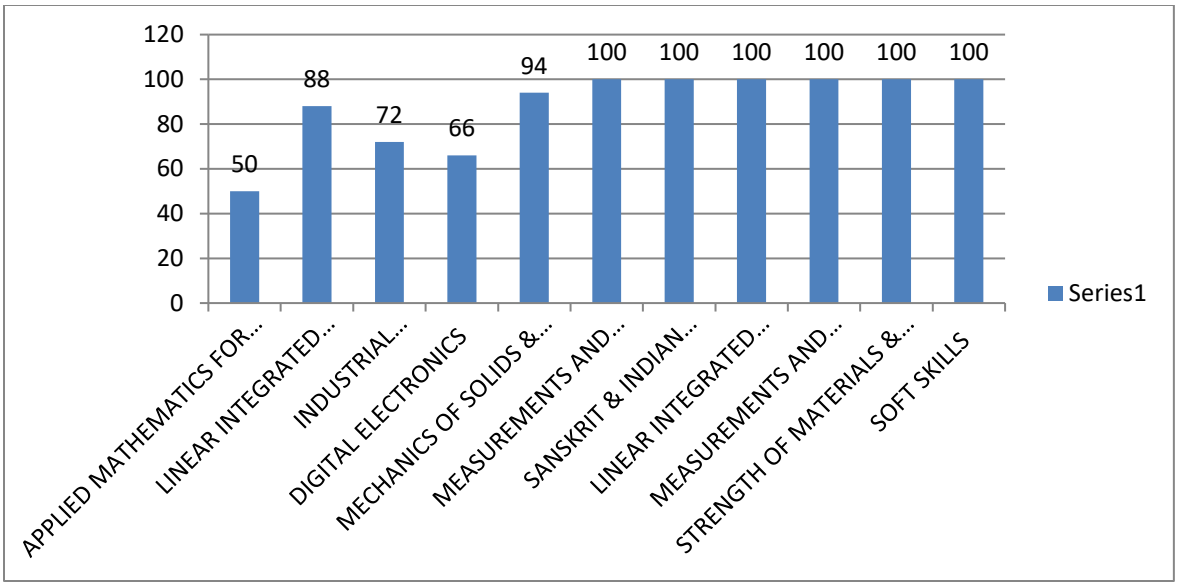
SEM VIII



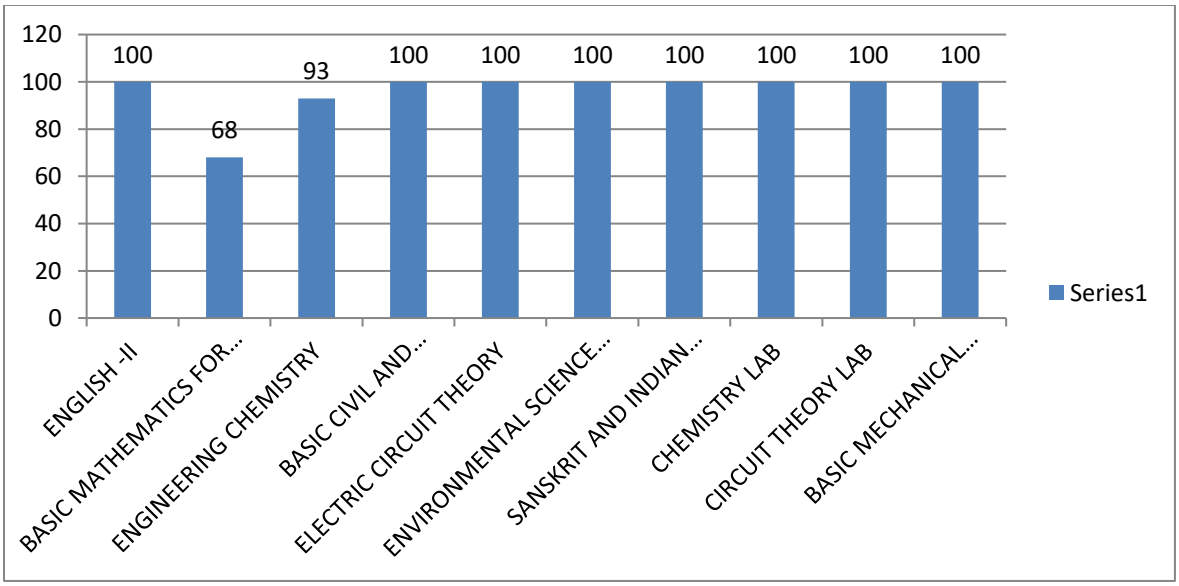
Result analysis for Batch (2015-2019)
SEM VI



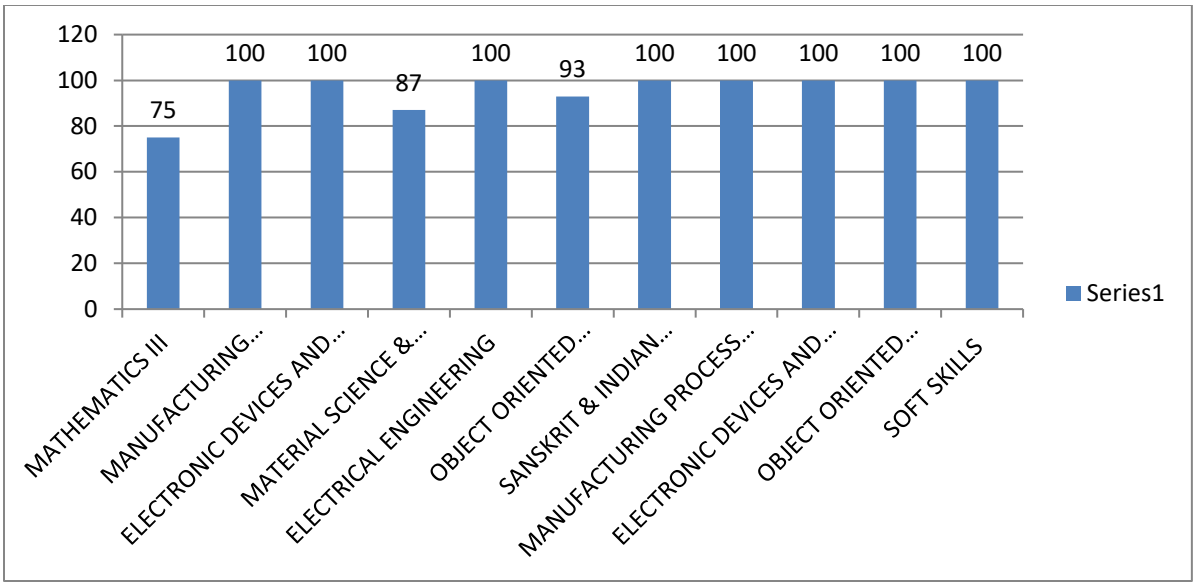
Result analysis for Batch (2016-2020)
SEM IV



Result analysis for Batch (2017-2021)
SEM II



Result analysis for Batch (2017-2021) SEM III

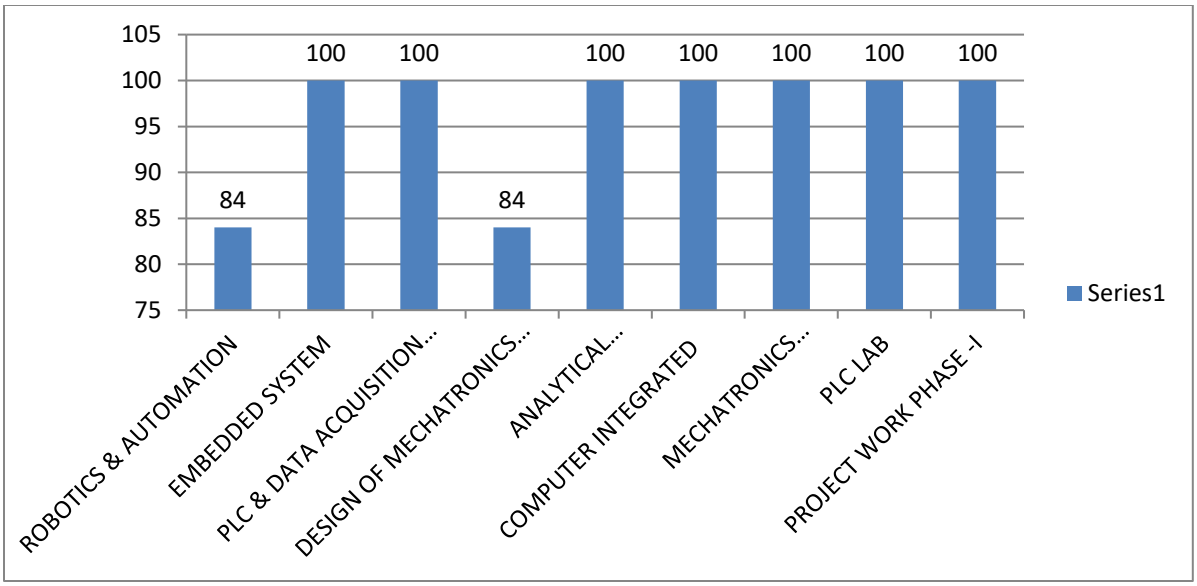


RESULT ANALYSIS (2018-2019)

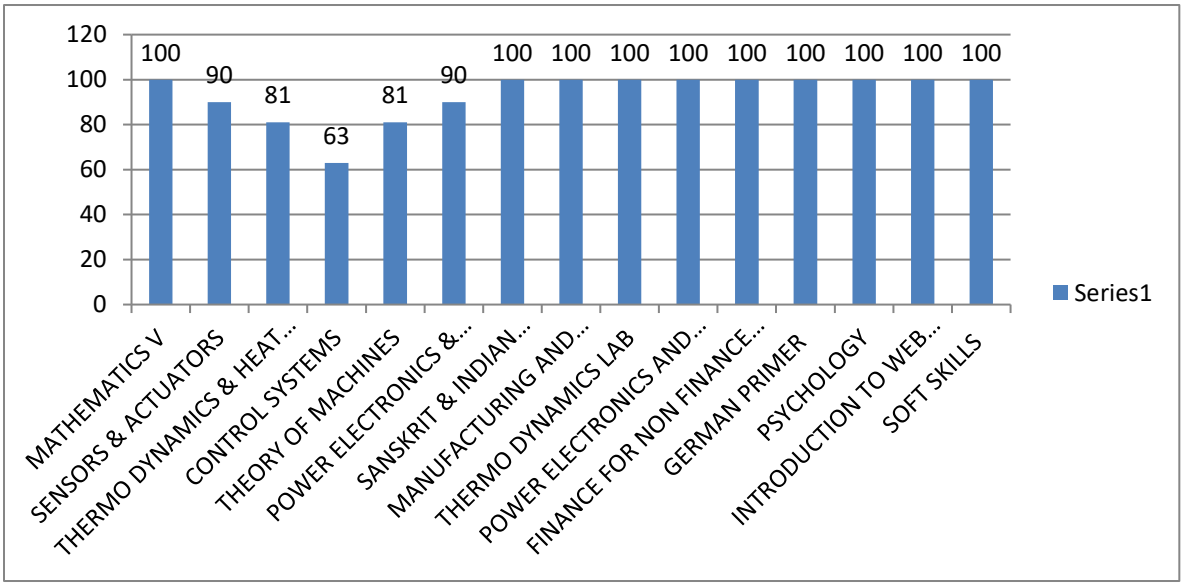
OVER ALL PASS PERCENTAGE FOR ODD SEMESTERS (2018-2019)

YEAR/SEM	BATCH	PASS PERCENTAGE
1st year/1stsem	2017-2021	75%
2nd year/3rd sem	2016-2020	89%
3rd year/5th sem	2015-2019	64%
4th year/7th sem	2014-2018	77%

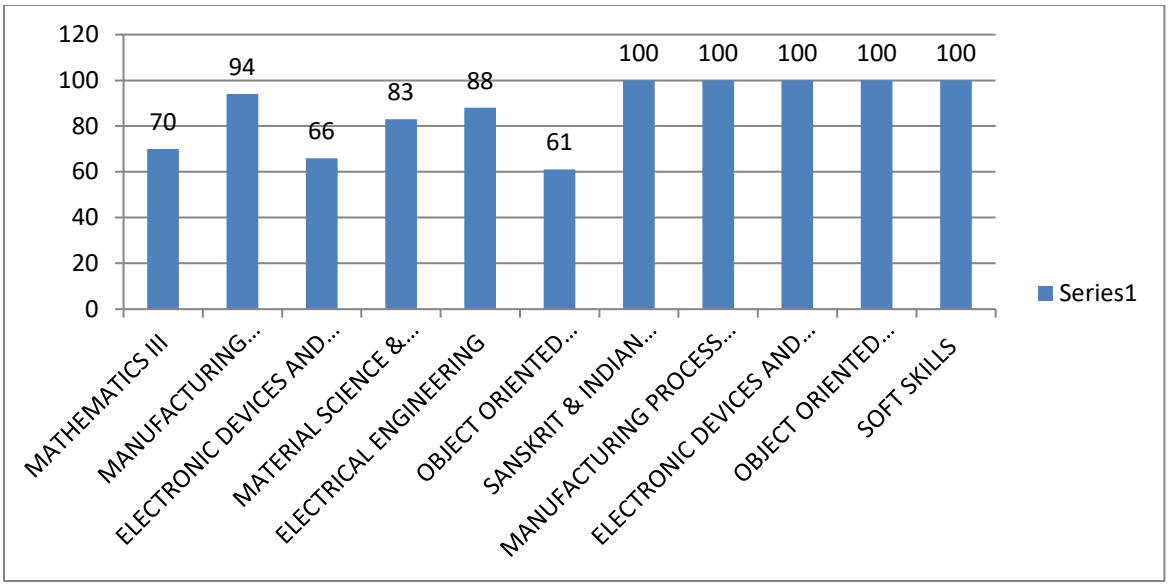
Result analysis for Batch (2014-2018)
SEM VII



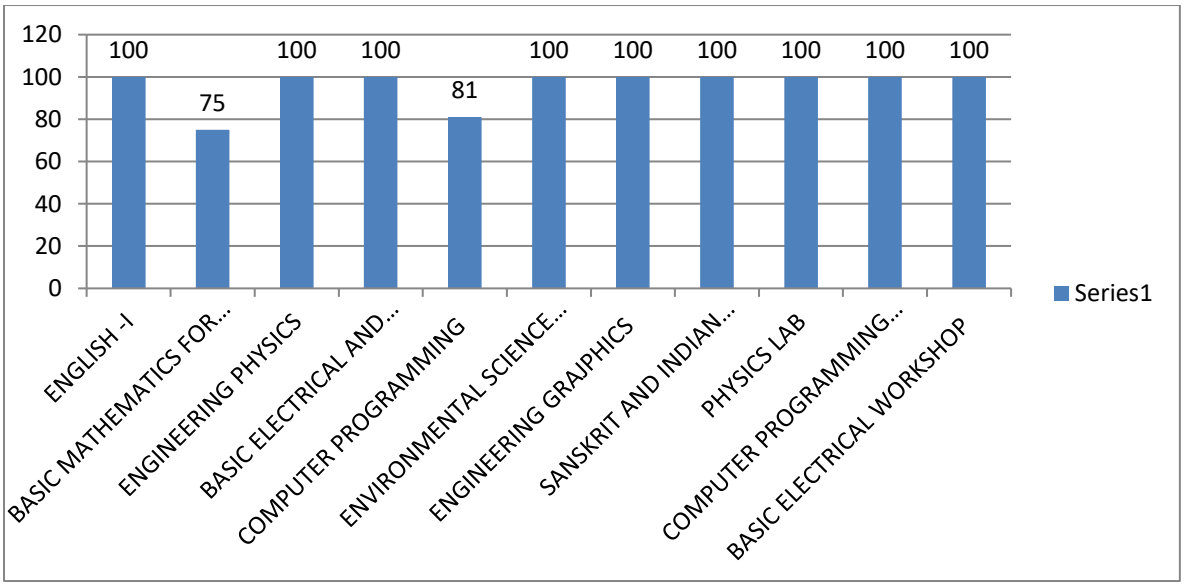
Result analysis for Batch (2015-2019)
SEM V



Result analysis for Batch (2016-2020)
SEM III



Result analysis for Batch (2017-2021)
SEM I



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	Aparna	11159H002	Mechatronics	CTS	Programmer Analyst Trainee	On Campus	3,38,000
2	Jayanth Sarangan	11159G002	EIE		Programmer Analyst Trainee		
3	K Siva Subbramanian	11159H010	Mechatronics	Sutherland Technologies	Consultant		2,50,000
4	Lingam Sai Vinneth	11159H006		Kiran udyog Pvt Ltd	Graduate Engineer Trainee		2,80,000
5	Ramesh Pavan	11159H009		Tech Mahendra	Customer Support Associate		1,26,000
6	Rishi Dharan.N	11159H011					
7	C S Hari Hara Ganesh	11159H004		National Autoplast	Graduate Engineer Trainee		1,80,000

LIST OF POSSIBLE COMPANIES FOR PLACEMENT

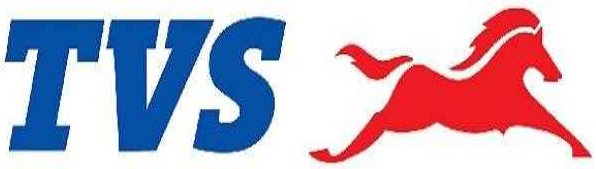

Cognizant


KIRAN UDYOD PVT. LIMITED


CSL
Chemtron Science Laboratories Pvt. Ltd.


SUTHERLAND


VALCO MELTON


TVS


Tech
Mahindra


BOSCH
Invented for life

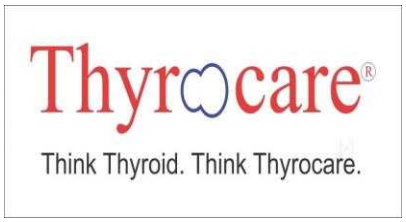

BASE
AUTOMATION TECHNOLOGIES
Concept to Reality


ACHINTYO


MAC


SHARDA


UNITRON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eHelium


CMC Limited
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MILINDIA
MILINDIA LTD.


tespa


envision
From Thought To Completion

23.WORK COMPLETION REPORT

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

YEAR 2018-19

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

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

Signature of Staff: _____

Date: _____

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

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

Signature of Staff: _____

Date: _____

I, **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: _____

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

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

Signature of Staff: _____

Date: _____

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

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

Signature of Staff: _____

Date: _____

24.WORK PLAN - ACADEMIC PLANS FOR ENSUING SEMESTER

(For the Academic Year **2019-2020**)

Name of the Faculty: Mrs.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. Computer Control Lab-III Yr EIE & PLC LAB - IV Yr Mechatronics 5. PLC and SCADA LAB - IV Yr EEE • Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals. **Completed Work for the previous year 2018-2019** • 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 Fully Automated Food Processing Industry. • To arrange an FDP on Programmable Logic Controller. • To arrange a Workshop on Micro Actuators. • To attend Refresher courses and Orientation Program. **Completed Work for the previous year 2018-2019** • Attended Online FDPs conducted in coordination with NITTTR Chandigarh. IoT in manufacturing, Tools for scientific research in Engg and Science, Artificial Intelligence and Optimization. • Actively participated in IEEE Conference conducted by circuit branch. • Arranged TVS training workshop and Industrial visit to students.
Research, Publications and Academic contributions
• To Present papers in IEEE Conferences. • To Publish a paper in SCI indexed Journals and UGC Journal. **Completed Work for the previous year 2018-2019** • Completed NPTEL course on "Automatic Control"and scored ELITE silver.

Signature of the Faculty **HOD/EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
SCSVMV
(Deemed to be University U/S 3 of UGC Act 1956)
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Department of Electronics and Instrumentation Engineering

For the Academic Year **2019-2020** - Work Plan

Name of the Faculty: Mr. 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. Analog and Digital Electronics – II Yr CSE
  4. Analog and Digital Electronics Lab – II Yr CSE

  EVEN SEMESTER Will be assigned by HOD
- To give a mini project of prototype model Hybrid energy system for III Yr EIE.
- To arrange inplant/internship training for III Yr EIE & Mechatronics in summer vacation.
- Continues Assessment (Internal test), Assignments for the above said subjects will be conducted at regular intervals.
- Prepare new syllabus and Lab manual for Analog and Digital Electronics Lab.

Completed Work for theprevious year 2018-2019

- Prepared Analog and 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 2018-2019

- Arranged and conducted Online FDPs in coordination with NITTTR Chandigarh.
  IoT in manufacturing, Tools for scientific research in Engg and Science, Artificial Intelligence and Optimization.
- Attended the STCs Web appln security Audit, Next generation wireless Technologies.
- Actively participated in IEEE Conference conducted by circuit branch.
- 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.

Completed Work for the previous year 2018-2019

- Presented a paper in the IEEE conference.
- Submitted Thesis during February 2019.

Signature of the Faculty **HOD/EIE**

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For the Academic Year 2019-2020 - 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 — Final Year EIE 2. Advanced Control Systems — Final Year EIE 3. Control Systems — Third Year EIE and Mechatronics 4. Virtual Instrumentation Lab — Final Year EIE **EVEN SEMESTER** Will be assigned by HOD To prepare fresh study materials, question bank for Advanced Control Systems **Completed Work for the previous year 2018-2019** All the odd and even semester subject syllabus, internal evaluation and assessments are completed
Co-curricular, Extension, Professional development related activities
• To arrange for an Industrial visit to India Cements Pvt Ltd., JSW Steel factory. • To arrange Internship training for students in Hyundai Motors. • To organize two days workshop on PID controller design for Linear, Non Linear Systems • To organize two days FDP in Virtual Instrumentation • Instruct students to join and undergo NPTEL Certificate exam as well as SWAYAM courses **Completed Work for the previous year 2018-2019** • Participated in IEEE Conference for Paper Presentation. • Arranged Industrial Visit to Hyundai Motors, Sriperumbathur & Mettur Thermal Power Plant
Research, Publications and Academic contributions
• Publish papers in SCI Indexed Journals. • Articles in International Conference. **Completed Work for the previous year 2018-2019** • Arranged Students to Participate in NCAME 2019 and Papers presented and selected for publications in Springer Book Series. • Completed NPTEL Course in Automatic Control and Secured ELITE with Silver Grade.

Signature of the Faculty **HOD/EIE**

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For the Academic Year 2019-2020 - Work Plan

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

Teaching, Learning and Evaluation related activities

- Teaching of the courses assigned

  ODD SEMESTER

  1. Power Electronics and Drives -III Yr EIE& Mechatronics.
  2. Electronics and Microprocessors Lab – III Yr Mechanical.
  3. Power Electronics and Drives Lab -III Yr EIE& Mechatronics.
  4. Electronic devices Lab – II Yr EIE& Mechatronics.

  EVEN SEMESTER - Will be assigned by HOD
- Class in – Charge and Mentor for II yr EIE
- To arrange inplant/internship training for Mechatronics in summer vacation.
- Preparation of Lab manual for Power Electronics and Drives Lab & Electronic devices lab (New curriculum).

Completed Work for the previous year 2018-2019

- All the odd & even semester subject syllabus, internal evaluation and assessments are completed
- Prepared Electronics and Microprocessors Lab manual for Mechanical Engg students.
- Arranged Inplant training at Amalgamations Valeo Clutch Private Ltd, Oragadam.
- Encouraged and guided to do project for IEEE project expo.

Co-curricular, Extension, Professional development related activities

- To arrange Industrial Visits, Workshops, FDP and Short term Program relevant to instrumentation.
- To attend Refresher courses and Conferences.
- To develop Electro infinity club & Green thinkers forum for students.

Completed Work for the previous year 2018-2019

- Arranged and conducted Online FDPs in coordination with NITTTR Chandigarh.
  IoT in manufacturing, Tools for scientific research in Engg and Science, Artificial Intelligence.
- Attended the STCs Web appln security Audit, Next generation wireless Technologies.
- Actively participated in IEEE Conference conducted by circuit branch.
- Arranged a Guest lecture titled "Role of Engineers in Automobile Engg and Quality control in Industries" by Ms.B.Sharmila/Costing & Budgeting and Mr.K.Senthilkumar/Quality & Assurance, Ganeshvar Electrical Pvt Ltd, Chennai.
- Arranged Industrial visit to JTEKT Pvt ltd, KKNPP Kudankulam.

Research, Publications and Academic contributions

- To Present papers in IEEE Conferences.
- To publish papers in UGC Journals.

Completed Work for the previous year 2018-2019

- Presented a paper in the IEEE conference.
- Completed thesis and viva presentation.

Signature of the Faculty **HOD/EIE**

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Department of Electronics and Instrumentation Engineering

For the Academic Year 2019-2020 - Work Plan

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

Teaching, Learning and Evaluation related activities
• Teaching of courses assigned 1. Embedded Systems & Technology – IV YrEIE & Mechatronics 2. Signals & Systems - II Yr EIE 3. Analog & Digital Electronics – II Yr CSE • Class in Charge for III Yr Mechatronics and also mentoring them. • To ensure the consistent performance of each individual by conducting several tests. • To inculcate innovative thought process with regular subject knowledge. • To monitor the student healthy habits and activities for the personal growth. **Completed Work for the previous year 2018-2019** • All the odd & even semester subject syllabus, internal evaluation and assessments are completed
Co-curricular, Extension, Professional development related activities
• To take an evening certification course on Embedded programming. • To attend refresher and development courses to the extent of possibility. • To complete the tasks assigned by the University on time. • To extend my support in various activities of University as per the requirement. **Completed Work for the previous year 2018-2019** • Attended Online FDPs conducted in coordination with NITTTR Chandigarh. IoT in manufacturing, Tools for scientific research in Engg and Science, Artificial Intelligence and Optimization. • Actively participated in IEEE Conference conducted by circuit branch.
Research, Publications and Academic contributions
• To publish one paper in High indexed Journal (WoS). • To attend some research proposal seminars to apply a research proposal in various external bodies. • To participate in more conferences to attain more confidence and also to improve my subject standards. **Completed Work for the previous year 2018-2019** • Presented a paper in the IEEE conference. • Completed NPTEL course on "Embedded systems**"** and scored ELITE. • Submitted Thesis during April 2019.

Signature of the Faculty **HOD/EIE**

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SCSVMV
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Department of Electronics and Instrumentation Engineering

For the Academic Year 2019-2020 - Work Plan

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

Teaching, Learning and Evaluation related activities
• Teaching of courses assigned 1. VLSI Design – IV Yr EIE 2. Analog & Digital Electronics – II Yr CSE 3. Analog & Digital Electronics LAB – II Yr CSE 4. Signals and system – II Yr EIE • Class Tests and Assignments for the above said subjects will be conducted at regular intervals. • Apart from the above subjects, planning to prepare Study Material for Digital Electronics. **Completed Work for the previous year 2018-2019** • All the odd & even semester subject syllabus, internal evaluation and assessments are completed • Prepared Analog and Digital Electronics Lab manual for CSE students.
Co-curricular, Extension, Professional development related activities
• To arrange an industrial visit to Paper Manufacturing industry. • To arrange workshop in Aurdino Design. • To attend NPTEL courses and Orientation programs. **Completed Work for the previous year 2018-2019** • Attended Online FDPs conducted in coordination with NITTTR Chandigarh. IoT in manufacturing, Tools for scientific research in Engg and Science, Artificial Intelligence and Optimization. • Actively participated in IEEE Conference conducted by circuit branch.
Research, Publications and Academic contributions
• To present papers in Conferences. • To publish papers in SCI indexed Journals. • To submit the thesis of my research work. **Completed Work for the previous year 2018-2019** • Presented a paper in the conference conducted at Adhi college of Engg. • Published a paper in SCOPUS Journal. • Completed NPTEL course on **Embedded systems** and scored ELITE.

Signature of the Faculty **HOD/EIE**

For the Academic Year 2019-2020 - Work Plan

Name of the Faculty: K. Sugapriya, Assistant Professor/EIE

Teaching, Learning and Evaluation related activities
• Teaching of the courses assigned **ODD SEMESTER** 1. Robotics and Automation -IV Year Mechatronics 2. Digital Signal Processing -III YearE IE 3. Analog and Digital Electronics – II Year CSE 4. Analog and Digital Electronics Lab – II Year CSE **EVEN SEMESTER** ➢ Will be assigned by HOD • To give a mini project for III Year EIE and Mechatronics. • Preparing Lab manual for Analog and Digital Electronics Lab (New curriculum). **Completed Work for the previous year 2018-2019** • Prepared Analog and 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 Guest Lecture on Robotics and Automation. • To arrange for a Industrial visit. • To attend Refresher courses and Conferences. **Completed Work for the previous year 2018-2019** • Attended Online FDPs conducted in coordination with NITTTR Chandigarh. IoT in manufacturing, Tools for scientific research in Engg and Science, Artificial Intelligence and Optimization. • Actively participated in IEEE Conference conducted by circuit branch.
Research, Publications and Academic contributions
• To Present papers in IEEE Conferences and International journals. • To publish my research papers in UGC Journals. **Completed Work for the previous year 2018-2019** • Presented a paper in the conference conducted at Adhi college of Engg. • Completed NPTEL course on **Antenna**.

Signature of the Faculty **HOD/EIE**

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

Teaching, Learning and Evaluation related activities
• Teaching of courses assigned **ODD SEMESTER** 1. Analog & Digital Electronics–II yr CSE 2. Information Coding Techniques – III yr IT 3. Electronic Devices and Circuits – III yr EIE/Mechatronics 4. Analog & Digital Electronics Lab – II yr CSE • Class in Charge for II Yr EIE & Mechatronics and also mentoring them. • To conduct class tests and Assignments for the above said subjects. • To Prepare Lab Manual for Analog & Digital Electronics Lab **Completed Work for the previous year 2018-2019** • Prepared Analog and 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 Short term Course. • To arrange Hands on training in Wireless Communication. • To give Motivational Speech for EIE & Mechatronics students. **Completed Work for the previous year 2018-2019** • Attended Online FDPs conducted in coordination with NITTTR Chandigarh. IoT in manufacturing, Tools for scientific research in Engg and Science, Artificial Intelligence and Optimization. • Actively participated in IEEE Conference conducted by circuit branch.
Research, Publications and Academic contributions
• To present a paper in IEEE conference. • To publish papers in SCI Indexed Journals. **Completed Work for the previous year 2018-2019** • Presented a paper in the conference conducted at Adhi college of Engg. • Presented a paper in the IEEE conference.

Signature of the Faculty **HOD/EIE**

25.DETAILS OF ADDITIONAL RESPONSIBILITIES OF THE STAFF

Additional Responsibilities for the Academic Year 2018-19

S.No	Responsibility	Staff Assigned
1	Advisory	Mr.V.Swaminathan Mrs. T.Lakshmibai
2	Admission	Mrs. T.Lakshmibai Mr.T.Sundar
3	Academic (Curriculum & Syllabus)	Mr.V.Swaminathan Mrs. K.Saraswathi Mrs.T.Lakshmibai& T.Sundar
4	Internal Quality Assurance Cell (IQAC)	Mr.V.Swaminathan Mrs. K.Sugapriya
5	Finance	Mr.V.Swaminathan Mrs. K.Saraswathi Mrs.V.Komala
6	Purchase	Mr.G.Subramaniyan Mr.K.Vinayagamoorthy
7	Stock	Mr.G.Subramaniyan Mrs.V.Komala Mrs.K.Komathy Mr.K.Vinayagamoorthy
8	Files & Stationeries Maintenance	Mrs.V.Komala Mrs.K.Komathy
9	Departmental Activities	Mrs. K.Sugapriya Mrs.K.Komathy

S.No	Responsibility	Staff Assigned
10	Time Table	Mr.T.Sundar Mrs. K.Saraswathi
11	Examination a) Internal Exam Work b) University Exam Work	Mr.S.S.Saravana Kumar Ms.K.Soundari Mrs. K.Saraswathi, Mrs.V.Komala
12	Library	Mr. N.C.A.Boovarahan Mr.K.Vinayagamoorthy
13	Attendance	Mr.K.Vinayagamoorthy
14	Cultural	Mr.S.S.Saravana Kumar Mrs.K.Komathy
15	Sports	Mr.S.S.Saravana Kumar Mr.G.P.Sivakumar Mr.N.C.A.Boovarahan Mr.K.Vinayagamoorthy
16	Students Welfare	Mrs.T.Lakshmibai, Mrs.K.Saraswathi Mr.S.S.SaravanaKumar, Mr.T.Sundar Mr.N.C.A.Boovarahan, Mrs.Janani.R, Mrs. K.Sugapriya, Mr.G.P.Sivakumar
17	Placement	Mr.N.C.A.Boovarahan
18	Student Chapter / Seminar/ FDP/ Workshop	Mrs.T.Lakshmibai, Mr.T.Sundar,Mrs.Janani.R, Mr.S.S.Saravana Kumar
19	Guest Lecturer	Mrs.K.Sugapriya, Mrs.K.Saraswathi
20	Symposium	Mr.N.C.A.Boovarahan
21	Web Updation &Photos Maintenance	Mr.S.S.Saravana Kumar
22	Anti Ragging	Mr.N.C.A.Boovarahan
23	Student Feedback	Mrs.T.Lakshmibai

S.No	Responsibility	Staff Assigned
24	Industrial Visit / Educational Tour	Mr.T.Sundar, Mrs.Janani.R Mrs.T.Lakshmibai
25	Industry Academia Meet	Mrs.T.Lakshmibai Mr.N.C.A.Boovarahan
26	Projects	Mr.T.Sundar (EIE) Mr.S.S.Saravana Kumar (Mechatronics)
27	Research Coordinator	Mrs.T.Lakshmibai
28	Department Alumni Association	Mrs.Janani.R
29	Students Disciplinary	Mrs.T.Lakshmibai, Mrs.K.Saraswathi Mr.S.S.SaravanaKumar, Mr.T.Sundar Mr.N.C.A.Boovarahan, Mrs.Janani.R, Mrs. K.Sugapriya, Mr.G.P.Sivakumar
30	Ad on Courses	Mrs.T.Lakshmibai
31	Hostel Students	Mr.S.S.Saravana Kumar Mr.G.P.Sivakumar
32	Result Analysis	Mr.G.P.Sivakumar, Mrs.K.Komathy
33	I Year Subject co-coordinator	Mrs.T.Lakshmibai, Mrs.K.Sugapriya
34	Mentors	Mr.T.Sundar(IV EIE) Mrs.K.Saraswathi (III EIE) Mrs.Janani.R(II EIE) Mrs.T.Lakshmibai (I EIE) Mr.S.S.Saravana Kumar (IV Mechatronics) Mr.N.C.A.Boovarahan (III Mechatronics) Mr.G.P.Sivakumar(II Mechatronics) Mrs.K.Sugapriya(I Mechatronics)
35	Press & Publicity	Mr.N.C.A.Boovarahan& Mr.G.Subramaniyan
36	Intellectual Property Rights (IPR) Cell	Mrs.K.Saraswathi

26.DETAILS OF CLASS COMMITTEE MEETINGS HELD SO FAR

07.08.2018

MINUTES OF CLASS COMMITTEE MEETING OF IV YEAR EIE & MECHATRONICS CONDUCTED AT EIE DEPT ON 04.08.2018.

Students Present:

1. IV Year EIE
2. IV Year Mechatronics
   (Except 11159H004, H005, H008)

Staff Present: 1. Mr.T.SUNDAR (Class-in-charge/EIE)

2. Mr. S. S. SARAVANA KUMAR (Class-in-charge/ Mechatronics)

HOD: Mr.V.SWAMINATHAN

The following points were discussed:

1. Students are advised to maintain the attendance above 90%.Students having low attendance % will be informed to the parents for necessary action.
2. It is informed to the students that wearing ID card is compulsory.
3. Students are advised to design innovative project.
4. Internal Test – I is schedule from September 7th to 12th.
5. It is informed that, the attendance %, internal marks and assignment marks will be uploaded immediately in the e'varsity software.
6. Students need more placement training. HOD accepted to take needed action.
7. Students are advised to register the online NPTEL course compulsorily.
8. Students are advised to take active participation in the department activities such as Engineer's day, International Conference, IEEE project Expo and Symposium (Circuit Branch).
9. Students are asked to arrange for Industrial visits, Education Tour and Guest Lecture.

Class in Charge **HOD/EIE**

10.08.2018

MINUTES OF CLASS COMMITTEE MEETING OF III YEAR EIE & MECHATRONICS CONDUCTED AT EIE DEPT ON 06.08.2018 at 2.30 PM.

Students Present:

1. III Year EIE
2. III Year Mechatronics
   (Except H002, 04, 09, 11 & H012)

Staff Present : 1. Mrs.K.SARASWATHI (Class-in-charge)
2. Mrs.T LAKSHMIBAI (Member)

HOD : Mr.V.SWAMINATHAN

The following points were discussed:

1. The important dates in the Academic schedule were informed to the students (Internal Test, International Conference, Project Expo, Symposium and Industrial visits etc.)
2. The students are advised to have good attendance percentage and they are asked to avoid absent for first hour in both morning and afternoon sessions.
3. It is informed to the students to wear ID card compulsorily during working hours.
4. The students are comfortable with the current semester Theory and Practical subjects.
5. Students are advised to clear all their arrear subjects by this semester.
6. All the students are asked to make arrangement to Industrial Visit.
7. The importance of the final year Project was explained to them and the students are motivated to do innovative projects.
8. All the students are informed to do one In-plant training by this semester and at the end they have to give a small presentation about their training.
9. Students are advised to arrange and actively participate in the various activities like Industrial Visit, Education tour, Workshop and Guest Lecture.
10. Students are advised to register for online NPTEL & MOOCs course.

Class in Charge **HOD/EIE**

29.08.2018

MINUTES OF CLASS COMMITTEE MEETING OF II YEAR EIE & MECHATRONICS CONDUCTED AT EIE DEPT ON 23.08.2018 at 2.30 PM.

Students Present:

1. II Year EIE (Except 11179G001)
2. II Year Mechatronics

Staff Present : 1. Mr. G Padmanabha Sivakumar (Class-in-charge-Mechatronics)

2. Mrs.R Janani (Class-in-charge-EIE)

HOD : Mr.V.SWAMINATHAN

The following points were discussed:

1. The importance of meditation was explained to the students and also instructed to follow the five minute meditation everyday during first hour.
2. Students are advised to concentrate on the current semester subjects and understand the basics which are crucial for competitive exams in their future.
3. The important dates in the Academic schedule were informed to the students (Internal Test, International Conference, Project Expo, Symposium and Industrial visits etc.)
4. The students are advised to have good attendance percentage and they are asked to avoid absent for first hour in both morning and afternoon sessions.
5. It is informed to the students to wear ID card compulsorily during working hours.
6. The students are comfortable with the current semester Theory and Practical subjects.
7. Mechatronics students are willing to get more inputs in the OOPS and Manufacturing Technology subjects.
8. Students are advised to clear all their arrear subjects by this semester.
9. Students are advised to arrange and actively participate in the various activities like Industrial Visit, Education tour, Workshop and Guest Lecture.
10. Students are advised to register for online NPTEL & MOOCs course.

Class in Charge **HOD/EIE**

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHA VIDYALAYA
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30.08.2018

MINUTES OF CLASS COMMITTEE MEETING OF I YEAR EIE & MECHATRONICS CONDUCTED AT EIE DEPT ON 28.08.2018 at 2.20 PM.

Students Present:

1. I Year EIE
2. I Year Mechatronics

Staff Present : 1. Mrs. K.SUGAPRIYA (Mechatronics -Class-in-charge)

2. Mrs. T LAKSHMIBAI (EIE- Class-in-charge)

HOD : Mr.V.SWAMINATHAN

The points discussed during the meeting.

1. The students are advised to have good attendance percentage and they have to maintain the same till the academic year.
2. The importance of Industrial visit and Internship programme were informed to the students and also informed about the educational tour.
3. Wearing of ID card is insisted to the students during class hours.
4. The students are comfortable with the current semester Theory and Practical subjects.
5. Students are advised that don't use mobile phones.
6. All the students are asked to give students colloquium.
7. The importance of participation in International Conference, Project Expo, Symposium and Industrial visits was explained to them.
8. Students are advised to arrange and actively participate in the various activities like Workshop, Guest Lecture and extracurricular activities like music, cultural etc.,
9. Most of the students have not studied computer programming subject in their higher secondary classes (+2), hence they feel difficult to understand the C-programming subject in the first semester.
10. The students find difficult in understanding the physics subject.
11. Students are advised to register for online NPTEL course.
12. All the students are asked to get proper permission to go to home or outing and also they will not be permitted without prior knowledge.

Class in Charge **HOD/EIE**

25.03.2019

MINUTES OF CLASS COMMITTEE MEETING OF II YEAR EIE & MECHATRONICS CONDUCTED AT EIE DEPT ON 13.03.2019 at 2.30 PM.

Students Present:

3. II Year EIE
4. II Year Mechatronics

Staff Present : 1. Mr. G Padmanabha Sivakumar (Class-in-charge-Mechatronics)
2. Mrs.R Janani (Class-in-charge-EIE)

HOD : Mr.V.SWAMINATHAN

The following points were discussed:

1. The important dates in the Academic schedule were informed to the students.
2. The students are advised to have good attendance percentage and they are asked to avoid absent for first hour .
3. It is informed to the students to wear ID card compulsorily during working hours.
4. The students are comfortable with the current semester Theory and Practical subjects.
5. Students are advised to clear all their arrear subjects by this semester.
6. Students are advised to arrange and actively participate in the various activities like Industrial Visit, Education tour, Workshop and Guest Lecture.
7. Students are advised to register for online NPTEL & MOOCs course.

Class in Charge **HOD/EIE**

25.03.2019

MINUTES OF CLASS COMMITTEE MEETING OF III YEAR EIE & MECHATRONICS CONDUCTED AT EIE DEPT ON 14.03.2019 at 2.30 PM.

Students Present:

1. III Year EIE
2. III Year Mechatronics

Staff Present : 1. Mrs.K.SARASWATHI (Class-in-charge - EIE)
2. Mr.N.C.A.BOOVARAHAN (Class-in-charge - Mechatronics)

HOD : Mr.V.SWAMINATHAN

The following points were discussed:

1. The important dates in the Academic schedule were informed to the students.
2. The students are advised to have good attendance percentage and they are asked to avoid absent for first hour.
3. Students are advised to clear all their arrear subjects by this semester.
4. The importance of the final year Project was explained to them and the students are motivated to do innovative projects.
5. Students are advised to clear all their arrear subjects by this semester.
6. Students are advised to arrange and actively participate in the various activities like Industrial Visit, Education tour, Workshop and Guest Lecture.
7. Students are advised to register for online NPTEL & MOOCs course.

Class in Charge **HOD/EIE**

25.03.2019

MINUTES OF CLASS COMMITTEE MEETING OF I YEAR EIE & MECHATRONICS CONDUCTED AT EIE DEPT ON 21.03.2019 at 2.20 PM.

Students Present:

1. I Year EIE
2. I Year Mechatronics

Staff Present : 1. Mrs. K.SUGAPRIYA (Mechatronics -Class-in-charge)
2. Mrs. T LAKSHMIBAI (EIE- Class-in-charge)

HOD : Mr.V.SWAMINATHAN

The points discussed during the meeting.

1. The students are advised to have good attendance percentage.
2. The importance of Industrial visit and Internship programme were informed to the students.
3. Wearing of ID card is insisted to the students during class hours.
4. The students are comfortable with the current semester Theory and Practical subjects.
5. Students are advised to arrange and actively participate in the various activities like Workshop and Guest Lecture etc.,
6. Students are advised to register for online NPTEL course.

Class in Charge **HOD/EIE**

25.03.2019

MINUTES OF CLASS COMMITTEE MEETING OF IV YEAR EIE & MECHATRONICS CONDUCTED AT EIE DEPT ON 21.03.2019 at 3.30 PM.

Students Present:

1. IV Year EIE
2. IV Year Mechatronics

Staff Present: 1. Mr.T.SUNDAR (Class-in-charge/EIE)

2. Mr. S. S. SARAVANA KUMAR (Class-in-charge/ Mechatronics)

HOD: Mr.V.SWAMINATHAN

The following points were discussed:

1. Students are advised to maintain the attendance above 90%.
2. Internal Test – II is schedule from 1st April to 4th April 2019.
3. It is informed that, the attendance %, internal marks and assignment marks will be uploaded immediately in the e varsity software.
4. Students are advised to register the online NPTEL course.
5. Students are advised to clear all their arrear subjects by this semester.
6. Students are advised to take active participation in the department activities.

Class in Charge **HOD/EIE**

12.11.2018

Minutes of EIE Staff Meeting held on 29/10/2018

The following are the points discussed:

1. Syllabus completion status of all subjects was discussed individually with each faculty and it was found that most of the subject's four units are completed.
2. All are informed to complete their Log Book and Mentor Book.
3. All are informed to give their subjects Internal Assessment Mark & Attendance in E-varsity.
4. The faculties are advised to complete their research work earlier.
5. Admission strategy for the academic year 2019-2020 was discussed in detail and all the faculties are advised to take the issue seriously.
6. Faculties are informed to take necessary action for the IEEE international conference and national Level technical symposium AAVISHKAR.

HOD/EIE
(V.Swaminathan)

27. MAINTENANCE OF STAFF RECORDS

Staff Leave Particulars
From 01/07/2018 to 30/06/2019
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	10.0	-	-	-	-	-	-	-	-	-	-	10.0
2	Ms. K.SARASWATHI	Assistant Professor (Stage-II)	7.0	5.5	-	1	-	6.0	6.0	-	-	58	-	83.5
3	Dr. SUNDAR.T	Assistant Professor	5.0	-	-	1	-	7.0	-	-	-	60	-	73.0
4	Ms. JANANI R	Assistant Professor	10.0	7.0	-	-	-	2.0	11.0	-	-	58	-	88.0
5	Dr. T.LAKSHMIBAI	Assistant Professor	7.0	-	35.0	1	-	6.0	-	-	-	60	-	109.0
6	Dr. G PADMANABHA SIVAKUMAR	Assistant Professor	10.0	-	3.0	1	-	-	2.0	-	-	60	-	76.0
7	Mr. SARAVANA KUMAR.S.S	Assistant Professor	8.0	7.0	-	-	-	1.0	-	15	-	60	-	91.0
8	Mrs. K.SUGAPRIYA	Assistant Professor	10.0	-	7.0	1	-	-	2.0	-	-	60	-	80.0
9	Mr. BOOVARAHAN	Assistant Professor	8.5	-	16.0	1	-	1.0	-	-	-	60	-	86.5
10	Mr. G. SUBRAMANIYAN	Sr.Lab Instructor	12.0	15.0	-	-	-	7.0	-	-	-	-	-	34.0
11	Ms. V.KOMALA	Lab Instructor	13.0	19.0	-	-	-	-	-	-	-	-	-	32.0
12	Ms. K.SOUNDARI	Lab Instructor	9.5	4.0	-	-	-	-	-	-	-	-	-	13.5
13	Mr. K.VINAYAGAMOORTHY	Lab Instructor	9.5	-	-	1	1	-	-	-	-	-	-	11.5
14	Ms. K.KOMATHY	Lab Instructor	12.0	10.0	-	1	-	-	-	-	-	-	-	23.0

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

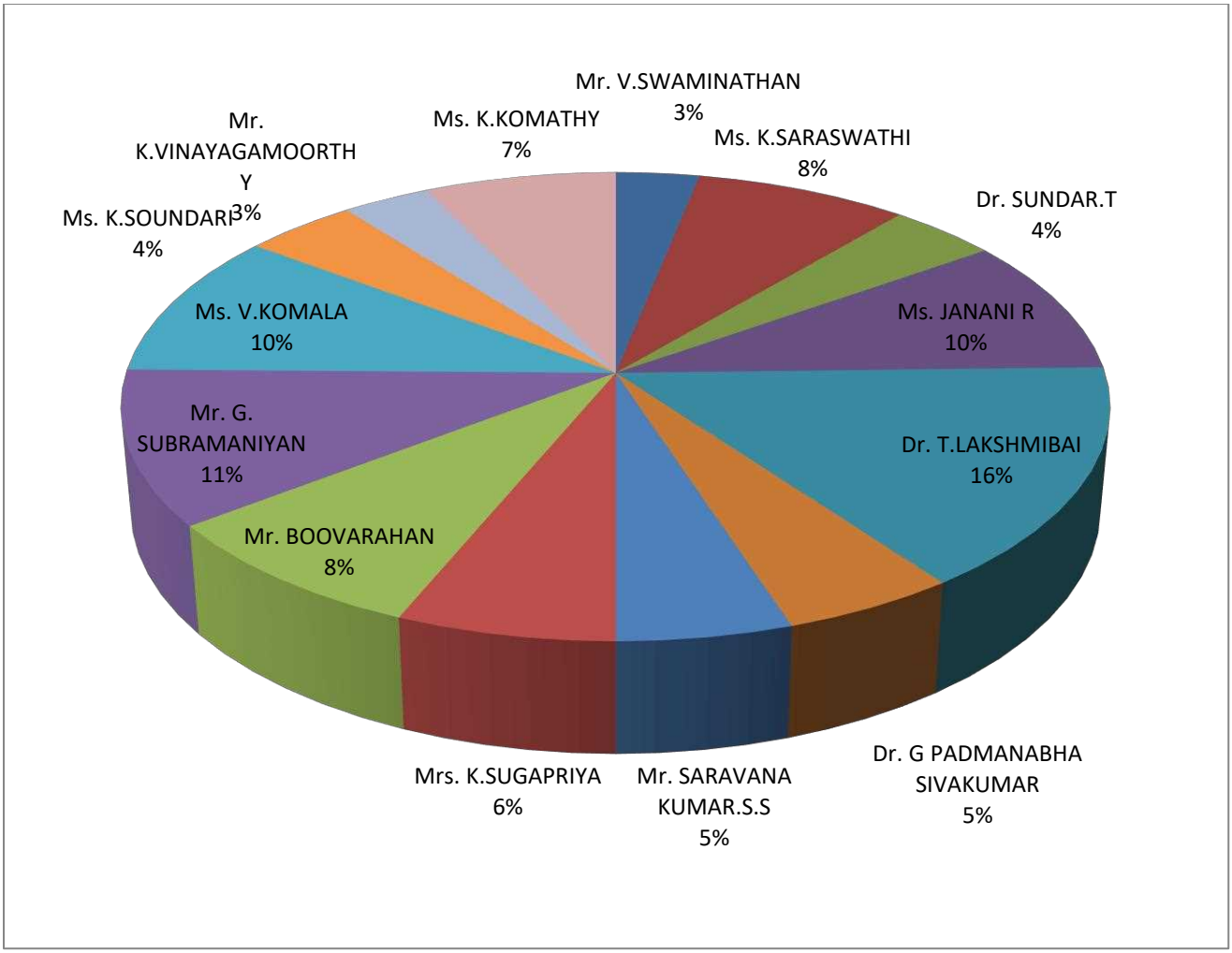
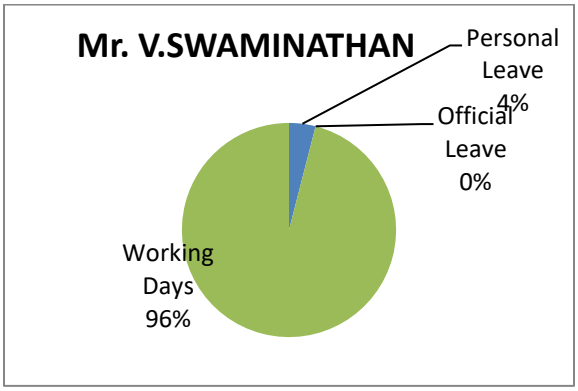
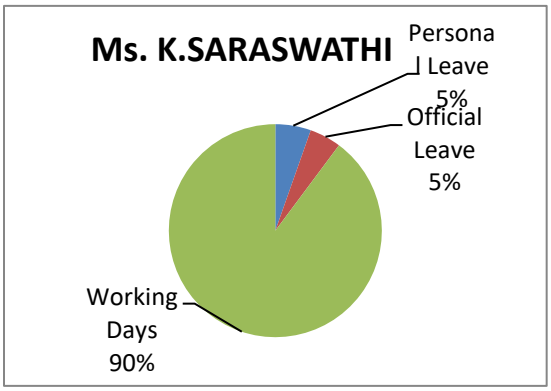
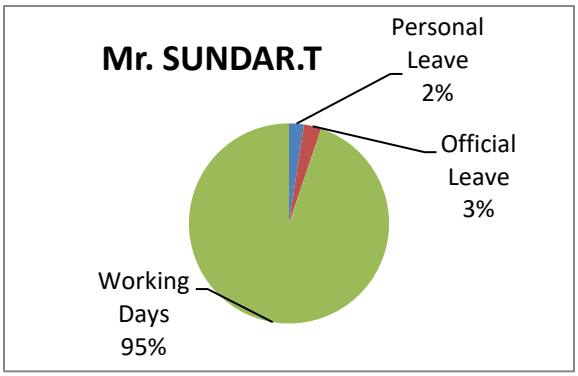
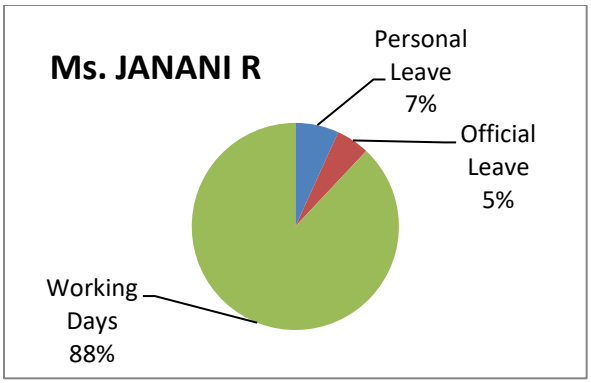


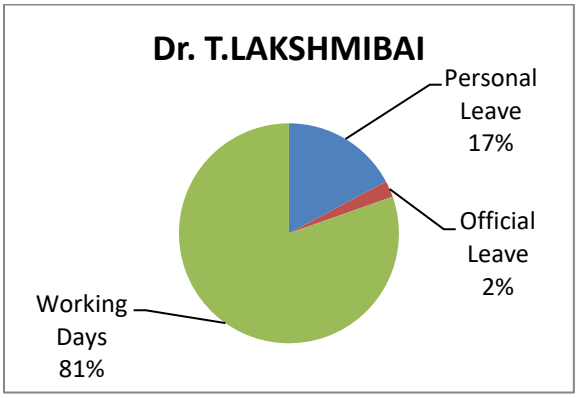
CHART FOR EFFECTIVE HOURS SPENT BY EACH TEACHING STAFF

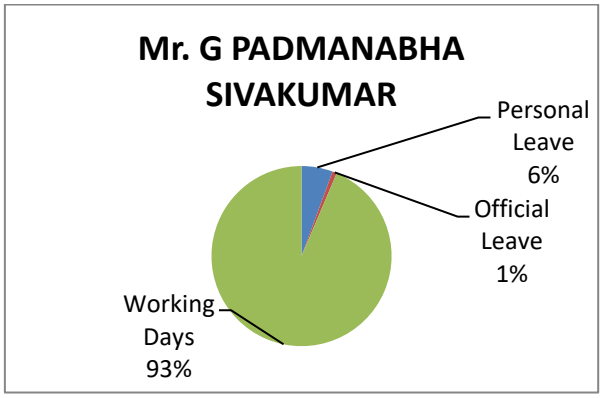


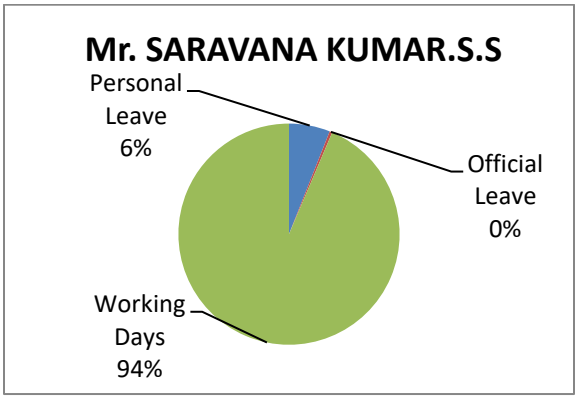


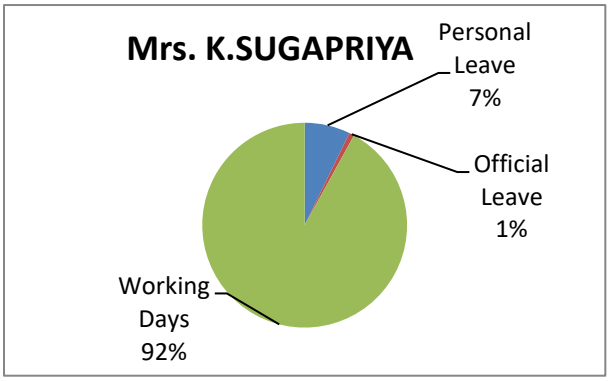

Mr. SUNDAR.T
Personal Leave 2%
Official Leave 3%
Working Days 95%

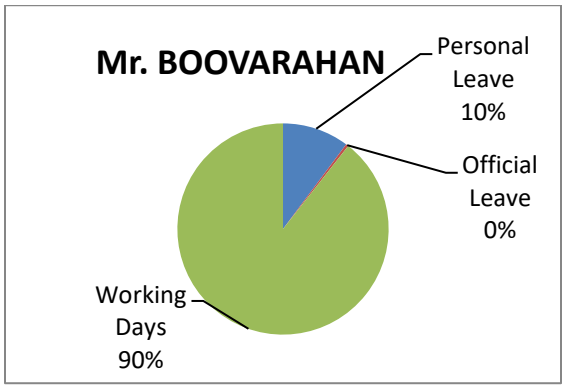

Ms. JANANI R
Personal Leave 7%
Official Leave 5%
Working Days 88%


Dr. T.LAKSHMIBAI
Personal Leave 17%
Official Leave 2%
Working Days 81%


Mr. G PADMANABHA SIVAKUMAR
Personal Leave 6%
Official Leave 1%
Working Days 93%


Mr. SARAVANA KUMAR.S.S
Personal Leave 6%
Official Leave 0%
Working Days 94%


Mrs. K.SUGAPRIYA
Personal Leave 7%
Official Leave 1%
Working Days 92%


Mr. BOOVARAHAN
Personal Leave 10%
Official Leave 0%
Working Days 90%

S.N	Name	Designation	Nature of Leave	From		To		No of Days
1	V.SWAMINATHAN	Associate Professor & HOD	CL	22.10.2018	FN	23.10.2018	AN	2
			CL	02.11.2018	FN	02.11.2018	AN	1
			CL	10.11.2018	FN	10.11.2018	AN	1
			CL	03.12.2018	FN	04.12.2018	AN	2
			CL	13.02.2019	FN	14.02.2019	AN	2
			CL	02.05.2019	FN	03.05.2019	AN	2
2	K.SARASWATHI	Assistant Professor(Stage-II)	CL	16.08.2018	FN	16.08.2018	AN	1
			CL	24.08.2018	FN	24.08.2018	AN	1
			OD	21.09.2018	FN	26.09.2018	AN	6
			RH	08.10.2018	FN	08.10.2018	AN	1
			DL	26.11.2018	FN	29.11.2018	AN	4
			DL	24.11.2018	FN	25.11.2018	AN	2
			VA	01.12.2018	FN	13.12.2018	AN	13
			CL	17.12.2018	FN	17.12.2018	AN	1
			CL	31.12.2018	FN	31.12.2018	AN	1
			CL	08.02.2019	FN	08.02.2019	AN	1
			EL	19.02.2019	AN	24.02.2019	AN	5.5
			CL	19.03.2019	FN	19.03.2019	AN	1
			CL	19.04.2019	FN	19.04.2019	AN	1
			VA	06.05.2019	FN	26.05.2019	AN	21
			VA	03.06.2019	FN	26.06.2019	AN	24
3	SUNDAR.T	Assistant Professor	RH	24.08.2018	FN	24.08.2018	AN	1
			CL	12.09.2018	FN	12.09.2018	AN	1
			OD	21.09.2018	FN	26.09.2018	AN	6
			CL	01.10.2018	FN	01.10.2018	AN	1
			VA	28.11.2018	FN	12.12.2018	AN	15

S.N	Name	Designation	Nature of Leave	From		To		No of Days
			OD	28.02.2019	FN	28.02.2019	AN	1
			CL	13.03.2019	FN	14.03.2019	AN	2
			CL	29.03.2019	FN	29.03.2019	AN	1
			VA	06.05.2019	FN	07.06.2019	AN	33
			VA	17.06.2019	FN	28.06.2019	AN	12
4	JANANI R	Assistant Professor	CL	09.07.2018	FN	09.07.2018	AN	1
			DL	07.08.2018	FN	07.08.2018	AN	1
			CL	30.08.2018	AN	31.08.2018	AN	1.5
			CL	07.09.2018	FN	07.09.2018	AN	1
			CL	20.09.2018	AN	20.09.2018	AN	0.5
			OD	25.09.2018	FN	26.09.2018	AN	2
			EL	05.11.2018	FN	09.11.2018	AN	5
			EL	10.11.2018	FN	11.11.2018	AN	2
			DL	26.11.2018	FN	29.11.2018	AN	4
			CL	29.10.2018	FN	31.10.2018	AN	3
			DL	24.11.2018	FN	25.11.2018	AN	2
			VA	01.12.2018	FN	13.12.2018	AN	13
			DL	20.12.2018	FN	23.12.2018	AN	4
			CL	01.03.2019	AN	01.03.2019	AN	0.5
			CL	13.03.2019	FN	13.03.2019	FN	0.5
			CL	25.03.2019	FN	26.03.2019	AN	2
			VA	10.05.2019	FN	02.06.2019	AN	24
			VA	10.06.2019	FN	30.06.2019	AN	21
5	T.LAKSHMIBAI	Assistant Professor	CL	05.07.2018	FN	05.07.2018	AN	1
			CL	16.08.2018	AN	16.08.2018	AN	0.5
			RH	24.08.2018	FN	24.08.2018	AN	1

			CL	14.09.2018	FN	14.09.2018	AN	1
			OD	21.09.2018	FN	26.09.2018	AN	6
			CL	27.11.2018	FN	27.11.2018	AN	1
			VA	29.11.2018	FN	13.12.2018	AN	15
			CL	09.02.2019	FN	09.02.2019	AN	1
			CL	14.03.2019	AN	15.03.2019	AN	1.5
			CL	18.03.2019	FN	18.03.2019	AN	1
			ML	25.03.2019	FN	24.04.2019	AN	31
			ML	25.04.2019	FN	28.04.2019	AN	4
			VA	13.05.2019	FN	26.06.2019	AN	45
6	G PADMANABHA SIVAKUMAR	Assistant Professor	CL	20.07.2018	AN	20.07.2018	AN	0.5
			DL	07.08.2018	FN	07.08.2018	AN	1
			CL	03.09.2018	FN	05.09.2018	AN	3
			CL	15.10.2018	FN	15.10.2018	AN	1
			CL	29.10.2018	AN	30.10.2018	FN	1
			CL	01.11.2018	FN	01.11.2018	AN	1
			ML	08.11.2018	FN	10.11.2018	AN	3
			CL	21.11.2018	FN	21.11.2018	AN	1
			CL	22.11.2018	FN	22.11.2018	FN	0.5
			VA	29.11.2018	FN	13.12.2018	AN	15
			RH	04.03.2019	FN	04.03.2019	AN	1
			CL	20.03.2019	FN	20.03.2019	AN	1
			CL	12.04.2019	FN	12.04.2019	AN	1
			DL	11.04.2019	FN	11.04.2019	AN	1
			VA	02.05.2019	FN	05.05.2019	AN	4
			VA	21.05.2019	FN	30.06.2019	AN	41

7	SARAVANA KUMAR.S.S	Assistant Professor	PA	28.08.2018	FN	11.09.2018	AN	15
			CL	24.09.2018	FN	24.09.2018	AN	1
			CL	01.10.2018	FN	01.10.2018	AN	1
			CL	19.10.2018	FN	19.10.2018	AN	1
			OD	16.10.2018	FN	16.10.2018	AN	1
			CL	19.11.2018	FN	20.11.2018	AN	2
			VA	29.11.2018	FN	13.12.2018	AN	15
			CL	19.12.2018	FN	21.12.2018	AN	3
			EL	29.04.2019	FN	05.05.2019	AN	7
			VA	17.05.2019	FN	30.06.2019	AN	45
8	K.SUGAPRIYA	Assistant Professor	CL	17.07.2018	FN	17.07.2018	AN	1
			CL	26.07.2018	FN	26.07.2018	AN	1
			DL	10.08.2018	FN	11.08.2018	AN	2
			RH	24.08.2018	FN	24.08.2018	AN	1
			CL	01.10.2018	FN	01.10.2018	AN	1
			CL	17.11.2018	FN	17.11.2018	AN	1
			VA	28.11.2018	FN	12.12.2018	AN	15
			CL	14.12.2018	FN	14.12.2018	AN	1
			CL	26.12.2018	FN	27.12.2018	AN	2
			CL	04.02.2019	AN	05.02.2019	AN	1.5
			CL	14.02.2019	FN	14.02.2019	FN	0.5
			ML	18.02.2019	FN	24.02.2019	AN	7
			VA	03.05.2019	FN	16.06.2019	AN	45
			CL	27.06.2019	FN	27.06.2019	AN	1
9	BOOVARAHAN	Assistant Professor	CL	18.07.2018	FN	18.07.2018	FN	0.5
			ML	02.08.2018	FN	17.08.2018	AN	16
			CL	10.11.2018	FN	10.11.2018	FN	0.5

			CL	12.11.2018	FN	12.11.2018	AN	1
			CL	20.11.2018	FN	20.11.2018	AN	1
			VA	29.11.2018	FN	13.12.2018	AN	15
			RH	18.12.2018	FN	18.12.2018	AN	1
			CL	26.12.2018	FN	26.12.2018	AN	1
			OD	28.02.2019	FN	28.02.2019	AN	1
			CL	01.03.2019	AN	01.03.2019	AN	0.5
			CL	05.03.2019	FN	05.03.2019	AN	1
			CL	15.03.2019	FN	15.03.2019	AN	1
			CL	19.04.2019	FN	19.04.2019	AN	1
			CL	25.04.2019	FN	25.04.2019	AN	1
			VA	03.05.2019	FN	16.06.2019	AN	45
10	G. SUBRAMANIYAN	Sr.Lab Instructor	CL	10.07.2018	FN	10.07.2018	AN	1
			CL	23.08.2018	FN	23.08.2018	AN	1
			CL	10.09.2018	FN	12.09.2018	AN	3
			OD	21.09.2018	FN	26.09.2018	AN	6
			CL	31.10.2018	AN	31.10.2018	AN	0.5
			CL	03.12.2018	FN	03.12.2018	AN	1
			CL	12.12.2018	FN	12.12.2018	AN	1
			CL	27.12.2018	AN	27.12.2018	AN	0.5
			OD	28.02.2019	FN	28.02.2019	AN	1
			EL	03.06.2019	FN	17.06.2019	AN	15
			CL	20.05.2019	FN	20.05.2019	AN	1
			CL	29.05.2019	FN	30.05.2019	AN	2
			CL	25.06.2019	FN	25.06.2019	AN	1
11	V.KOMALA	Lab Instructor	EL	20.08.2018	FN	23.08.2018	AN	4
			CL	22.10.2018	FN	22.10.2018	AN	1

			CL	19.11.2018	FN	19.11.2018	AN	1
			CL	06.12.2018	FN	06.12.2018	AN	1
			CL	13.12.2018	FN	14.12.2018	AN	2
			CL	11.02.2019	FN	11.02.2019	AN	1
			CL	04.03.2019	FN	05.03.2019	AN	2
			CL	13.03.2019	AN	13.03.2019	AN	0.5
			CL	18.03.2019	FN	19.03.2019	AN	2
			CL	21.03.2019	FN	22.03.2019	AN	2
			EL	20.05.2019	FN	03.06.2019	AN	15
			CL	10.06.2019	FN	10.06.2019	FN	0.5
12	K.SOUNDARI	Lab Instructor	CL	27.07.2018	FN	27.07.2018	AN	1
			CL	13.08.2018	FN	13.08.2018	AN	1
			CL	03.09.2018	FN	03.09.2018	FN	0.5
			CL	14.11.2018	FN	14.11.2018	AN	1
			CL	28.11.2018	FN	28.11.2018	AN	1
			EL	10.12.2018	FN	13.12.2018	AN	4
			CL	04.01.2019	FN	04.01.2019	AN	1
			CL	24.01.2019	FN	24.01.2019	AN	1
			CL	25.01.2019	FN	25.01.2019	AN	1
			CL	21.02.2019	FN	21.02.2019	AN	1
			CL	25.02.2019	FN	25.02.2019	FN	0.5
			CL	04.03.2019	FN	04.03.2019	FN	0.5
13	K.VINAYAGAMOORTHY	Lab Instructor	CL	30.07.2018	AN	30.07.2018	AN	0.5
			CL	09.08.2018	FN	09.08.2018	AN	1
			CL	21.08.2018	AN	21.08.2018	AN	0.5
			CH	27.08.2018	FN	27.08.2018	AN	1
			CL	16.10.2018	AN	16.10.2018	AN	0.5
			CL	25.10.2018	FN	25.10.2018	AN	1
			CL	10.12.2018	FN	13.12.2018	AN	4

			RH	18.12.2018	FN	18.12.2018	AN	1
			CL	27.03.2019	FN	27.03.2019	AN	1
			CL	11.04.2019	FN	11.04.2019	AN	1
14	K.KOMATHY	Lab Instructor	CL	06.08.2018	FN	06.08.2018	AN	1
			CL	05.09.2018	FN	05.09.2018	AN	1
			CL	30.11.2018	FN	30.11.2018	AN	1
			CL	07.12.2018	FN	07.12.2018	AN	1
			CL	13.12.2018	FN	13.12.2018	AN	1
			CL	24.12.2018	FN	24.12.2018	AN	1
			CL	09.02.2019	FN	09.02.2019	AN	1
			CL	29.03.2019	FN	29.03.2019	AN	1
			RH	19.04.2019	FN	19.04.2019	AN	1
			CL	06.05.2019	FN	06.05.2019	AN	1
			EL	21.05.2019	FN	30.05.2019	AN	10
			CL	17.05.2019	FN	17.05.2019	AN	1
			CL	18.06.2019	FN	18.06.2019	AN	1
			CL	21.06.2019	FN	21.06.2019	AN	1

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 – 2018 -2019

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

HOD/EIE

29. DISPATCH REGISTERS & 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-(2016-2020 batch)		3	
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 – January 2019

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

IJSRD - International Journal for Scientific Research & Development| Vol. 6, Issue 03, 2018 | ISSN (online): 2321-0613

Anonymity Protection to Source, Destination and Routes in MANETs

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Abstract— The high cost exacerbates the inherent resource constraint problem in MANETs especially in multimedia wireless applications. To offer high anonymity protection at a low cost, I propose an anonymous efficient routing protocol which dynamically partitions the network field into zones and randomly chooses nodes in zones as intermediate relay nodes, which form a non-traceable anonymous route. Mobile Ad Hoc Networks (MANETs) use anonymous routing protocols that hide node identities and/or routes from outside observers in order to provide anonymity protection. However existing anonymous routing protocols relying on either hop by hop encryption or redundant traffic, either generate high cost or cannot provided full anonymity protection to data sources, destination, and routes. We achieve better route anonymity protection and lower cost compared to other anonymous routing protocols.

Key words: Mobile Ad Hoc Networks, Anonymity, Routing Protocol

I. INTRODUCTION

Mobile Ad-Hoc Network is a self-configuring infrastructure less network of mobile devices connected by wireless. Ad hoc is Latin and means "for this purpose". Each device in a MANET is free to move independently in any direction, and will therefore change its links to other devices frequently. Each must forward traffic unrelated to its own use, and therefore be a router. The primary challenge in building a MANET is equipping each device to continuously maintain the information required to properly route traffic. Such networks may operate by themselves or may be connected to the larger Internet. A mobile Ad hoc network (MANET) is a system of wireless mobile nodes that dynamically self-organize in arbitrary and temporary network topologies. In Mob ad hoc network, nodes can directly communicate with all other nodes within their radio ranges; whereas nodes that not in the direct communication range use intermediate nodes that have participated in the communication automatically form a wireless network, therefore this kind of wireless network can be viewed as mobile ad hoc network.

II. EXISTING SYSTEM

Existing anonymity routing protocols in MANETs can be mainly classified into two categories: hop-by-hop encryption and redundant traffic. Most of the current approaches are limited by focusing on enforcing anonymity at a heavy cost to precious resources because public key-based encryption and high traffic generate significantly high cost. In addition, many approaches cannot provide all of the fore mentioned anonymity protections. Many anonymity routing algorithms are based on the geographic routing protocol (e.g., Greedy Perimeter Stateless Routing (GPSR)) that greedily forwards as packet to the node closest to the destination. However, the protocol's strict relay node selection makes it easy to reveal the source and destination and to analyze traffic.

III. DRAWBACKS OF EXISTING SYSTEM

Limited resource is an inherent problem in MANETs. In which each node labors under an energy constraint. MANETs' complex routing and stringent channel resource constraints impose strict limits on the system capacity. Further, the recent increasing growth of multimedia applications (e.g., video transmission) imposes higher requirement of routing efficiency Existing anonymous routing protocols generate a significantly high cost Unable to give complete security. More complexity

IV. PROPOSED SYSTEM

In order to provide high anonymity protection (for sources, destination, and route) with low cost, we propose an Anonymous Routing protocol (ARP). ARP dynamically partitions a network field into zones and randomly chooses nodes as intermediate relay nodes, which form a non-traceable anonymous route. Specifically, in each routing step, a data sender or forwarder partitions the network field in order to separate itself and the destination into two zones. It then randomly chooses a node in the other zone as the next relay node and uses the GPSR algorithm to send the data to the relay node. In the last step, the data is broadcasted to k nodes in the destination zone, providing k-anonymity to the destination. In addition, ARP has a strategy to hide the data initiator among a number of initiators to strengthen the anonymity protection of the source. ARP is also resilient to intersection attacks and timing attacks. In this Project we Analyze ARP in terms of anonymity and efficiency. We also conducted experiments to evaluate the performance of ARP in comparison with other anonymity and geographic routing protocols.

V. BENEFIT OF PROPOSED SYSTEM

ARP provides route anonymity, identity, and location anonymity of source and destination. ARP mainly uses randomized routing of one message copy to provide anonymity protection. ARP has a strategy to effectively counter intersection attacks. ARP can also avoid timing attacks because of its non-fixed routing paths for a source destination pair. To evaluate ARP's performance in comparison with other anonymous protocols.

National Conference on "Innovative Research on Robotics, Circuits & Technology" (IRCT'18)

ISBN: 97893-87088-23-8

Non-Contact ECG Monitoring System with Arrhythmia Alert

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Abstract---Real-time monitoring of cardiac health is helpful for patients with cardiovascular disease. Many telemedicine systems based on ubiquitous computing and communication techniques have been proposed for monitoring the user's electrocardiogram (ECG) anywhere and anytime. Usually, wet electrodes are used in these telemedicine systems. However, wet electrodes require conduction gels and skin preparation that can be inconvenient and uncomfortable for users. In order to overcome this issue, a new non-contact electrode circuit was proposed and applied in developing a mobile electrocardiogram monitoring system. The proposed non-contact electrode can measure bio-potentials across thin clothing, allowing it to be embedded in a user's normal clothing to monitor ECG in daily life. This proposal was attempted to simplify the design of these non-contact electrodes to reduce power consumption while continuing to provide good signal quality. Experimental results show that the proposed non-contact electrode provides good signal quality for measuring ECG across thin clothes.

Keywords---Arrhythmia, Electrocardiogram (ECG), Mobile Electrocardiogram Monitoring System, Noncontact Electrode, Telemedicine.

I. INTRODUCTION

CARDIOVASCULAR disease (CVD) is one of the main causes of death across most countries. Providing prompt emergency care within the ''golden hour" (one hour of onset of cardiac symptoms) can greatly reduce mortality. Therefore, real-time monitoring of cardiac health in daily life is useful for patients with cardiovascular disease. Currently, outpatient service is still the major healthcare approach for the common cardiovascular diseases. However, recently telemedicine systems that integrate with wireless communication techniques, such as wireless local area network (WLAN), global system by using mobile communications (GSM) network, and general packet radio service (GPRS) mobile network, have been introduced that allow mobile patients to receive healthcare anywhere and anytime, within limitations. However, conventional wet electrodes, which require conduction gels and even skin preparation to reduce the skin_electrode interface impedance, are most frequently used for the above telemedicine systems. And these procedures tend to be uncomfortable and inconvenient for users. The development of wearable sensing devices would allow telemedicine systems to monitor realtime physiological signals comfortably. Various kinds of dry electrodes, such as metal electrodes and textile electrodes, which can measure biopotentials without conductive gels, have been proposed for developing wearable sensing devices in several previous studies.

In this study, a novel non-contact electrode was also proposed and applied in developing a mobile electrocardiogram monitoring system. Based on the common concept of noncontact electrode, we attempt to propose a new non-contact electrode circuit. Under the condition of providing good signal quality, the design of the proposed non-contact electrode was simplified to reduce power consumption effectively. Here, a wireless ECG acquisition module and an Android mobile system platform were also designed to monitor real time ECG wirelessly. Finally the electrical specifications of the proposed non-contact electrode were validated in this study. And the motion artifact issue and the performance of monitoring arrhythmia in clinical settings were also tested to investigate the reliability of the proposed design.

II. DESIGN OF NON-CONTACT ELECTRODES

The basic concept of the proposed novel non-contact electrode is to construct a conducting plate covered by an insulating layer to form a parallel plate capacitor with the skin. Therefore, the non-contact electrode can couple bio-potential signals capacitively to a bio-amplifier. However, the impedance of skin-electrode interface is very high

National Conference on "Innovative Research on Robotics, Circuits & Technology" (IRCT'18)

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PID CONTROLER FOR INTERACTING AND NON-INTERACTING LEVEL PROCESS USING LABVIEW

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ABSTRACT:

Recent advancements in process industries have enabled the development of combination of interacting and non-interacting of process tank level control system. An experimental setup of three tank level process in interacting and non- interacting mode was studied, to obtain the process models. Different control schemes such as Internal model controller (IMC), IMC-PID and Proportional –Integral and Derivative (PID) were implemented. The goal of the model-based controller is to compensate for shifts in the process and maintain the liquid level on target. The performance of different control schemes were investigated through computer simulation.

Keywords: Interacting system, Non-interacting system, IMC, IMC-PID, LabVIEW

I.INTRODUCTION

Even though control theory has been developed significantly, the proportional- integral-derivative (PID) controllers are used for a wide range of process control, motor drives, magnetic and optic memories, automotive, flight control, instrumentation, etc. In industrial applications, PID type controllers were widely used.With its three-term functionality covering treatment to both transient and steady-state responses, proportional- integral-derivative (PID) control offers the simplest and yet most efficient solution to many real-world control problems. Since the invention of PID control in 1910 (largely owning to Elmer Sperry's ship autopilot), and the Ziegler–Nichols' (Z-N) straightforward tuning methods in 1942 [1], the popularity of PID control has grown tremendously. With advances in technology, the science of automatic control now offers a wide spectrum of choices for control schemes. However, most of industrial controllers were

still implementing based around PID algorithms, particularly at lowest levels. This paper presents [2] case study emphasizes building a mathematical model of a two tank fluid system, followed by system identification and parameter estimation, and finally designing a controller by pole placement. Model based control was developed primarily for processes having a pronounced time delay, the intent being to match the process delay with one in the control system. Model based control is very popular now adays due to the ability of such controllers to handle process with dead time effectively. Model-based control action is "intelligent" and helps in achieving uniformity, disturbance rejection, and set point tracking, all of which translate into better process economics One important type of model based control is Internal Model Control [IMC], which has the combined advantage of both open and closed systems[6]. It gives better

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Statistical Ratio Analysis and Overview of Growth in Power Energy System in India

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ABSTRACT

An analysis of statistical ratio, overview of growth in power energy system in India is done here. An installed capacity of 330.86 GW as on 2017 in utility electricity sector has one National Grid. In power generation of the country has various aspects using coal, gas and diesel in thermal power plant. The renewable energy system has been generated using the power of hydro, solar and wind sources. Using the source of uranium the nuclear power generation system is also produced. By applying the five year plan customized in the country a new power generating system are installed. The generated power was consumed for various purposes such as domestic, commercial, industrial, traction, agriculture and others. An average statistical study of increase in power system in the last few decades is represented by the graphical form.

Keywords: Power Sector, Energy Audit, Restructuring, Deregulation, Distributed Generation, Non conventional renewable energy, Central Electricity Authority (CEA).

I. INTRODUCTION

The total capacity of power plant installed can be categorized as non- renewable energy and renewable energy. The power plant of renewable energy contributes 32% in the generation of total power system. Recently renewable energy systems are gradually used for electricity generation. A renewable energy technology does not demand any fossil fuel. Their action is only based on the utilizing of natural resources such as wind, solar, hydro power, biomass and geothermal. The consumption and generation of the energy using renewable sources are applied in many places such as industries, home and offices. The generation of renewable energy mainly depends on the nature resources availability of the country. The need of generation of power supply using renewable energy system is an emergency growth to reduce the environmentally pollution done by non-renewable power system.

The progress in power generation sector of the country is extraordinary after independence. At present the whole capacity of the generated power system is about 1,236.39 TWh were it was only 1362 MW at the time of independence. A rapid increase in the generation of the power system due to increase in the consumption of the power source. The development of the country also depends on the production of power sources so as to satisfy the total consumption of the population. The following various corporations sectors were involved in the power system generation as State Electricity Boards (SEB), National Thermal Power Corporation (NTPC),

Improvement of Dynamic Response in Proportional Resonant Controlled Interleaved Buck Boost Converter Inverter Based Solar System

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Abstract*— Interleaved Buck Boost Converter is a good choice between PV system and inverter. An interleaved buck boost converter based on proportional Resonant has been designed and simulation was conducted. The objective of the present work is to improve dynamic response of Interleaved Buck Boost Converter Inverter system using PR controller. Parallel arrangement of converter was introduced so as to reduce the rippling of the output current in DC. A 50Hz of AC current was obtained using a full bridge single phase inverter fed from an interleaved buck boost converter. Interleaved buck boost model as a closed loop system in proportional integral and proportional Resonant was implemented. The results of the simulation of the closed loop system were compared with the existing results. The comparison is made in terms of parameters like rise time, settling time and steady state error.

Keywords*— Interleaved Buck Boost Converter Inverter (ILBBCI) , Maximum power point trackers (MPPT) , Proportional Resonant Controller (PRC), Proportional Integral Controller(PIC) , Pulse Width Modulation (PWM) , Sim Power Systems.

I. Introduction

The photovoltaic system is an agreeable result due to reduce the effects in the environment such as global warming and pollution. But the current product by photovoltaic system is less efficient compared with the other model. To get the optimized maximum output from photovoltaic system a model is designed, such as applying the change in all the elements of the system.

A controller system of MPPT where used to increase efficiency of PV system. The use of controllers in the PV system has become necessary need to increase the output. The improvement of power with the help of MPPT system in the PI controller where initially implemented in the past year.

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The introduction of this type of MPPT scheme of controller where used in the intelligent based modeling of the PV system controller. In order to improve the efficiency of the energy output an intelligent based controlling system of MPPT where introduced and applied in PR controller.

Mathematical modeling of buck–boost dc–dc converter and investigation of converter elements on transient and steady state responses is given by Hamed Mashinchi Mahery [1]. Analysis of Closed Loop Single Phase Z-source Buck and Boost Matrix Converter with Reduced Number of Switches Using PI Controller is given by L.Akila [2]. A Step-up/down Inverter Implemented with the Boost interleaved Buck-boost dc-dc Converter is given by Chien-Hsuan Chang [3]. High Power High Voltage Gain Interleaved DC-DC Boost Converter Application is given by Jiexun Liu [4]. Modeling and Simulation of Closed Loop Controlled Parallel Cascaded Buck Boost Converter Inverter Based Solar System is given by Sundar [5]. Modeling and Simulation of Interleaved Buck Boost Converter with PID Controller is given by S. Vijayalakshmi [6]. A Modified PID Controller of SEPIC Converter for Excellent Dynamic Performance is given by Azrita binti Alias [7]. Performance Analysis of Fuzzy-Proportional Integral (PI) Control for Improvement in Quality and Magnitude of Dispatched Power for a Weak Grid-Tied Hybrid System is given by C. Bhattacharjee [8]. Microcontroller based DC-DC Cascade Buck-Boosts Converter is given by Sanjeet Kumar [9].

The comparison of the controllers as applied to closed loop interleaved buck boost converter with in PI and PR was not covered in the above literature. The simulink model introduced

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STATISTICAL RATIO ANALYSIS AND OVERVIEW OF GROWTH IN POWER ENERGY SYSTEM IN INDIA

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Abstract

An analysis of statistical ratio, overview of growth in power energy system in India is done here. An installed capacity of 330.86 GW as on 2017 in utility electricity sector has one National Grid. In power generation of the country has various aspects using coal, gas and diesel in thermal power plant. The renewable energy system has been generated using the power of hydro, solar and wind sources. Using the source of uranium the nuclear power generation system is also produced. By applying the five year plan customized in the country a new power generating system are installed. The generated power was consumed for various purposes such as domestic, commercial, industrial, traction, agriculture and others. An average statistical study of increase in power system in the last few decades is represented by the graphical form.

Keywords: Power Sector, Energy Audit, Restructuring, Deregulation, Distributed Generation, Non conventional renewable energy, Central Electricity Authority (CEA).

Introduction

The total capacity of power plant installed can be categorized as non- renewable energy and renewable energy. The power plant of renewable energy contributes 32% in the generation of total power system. Recently renewable energy systems are gradually used for electricity generation. A renewable energy technology does not demand any fossil fuel. Their action is only based on the utilizing of natural resources such as wind, solar, hydro power, biomass and geothermal. The consumption and generation of the energy using renewable sources are applied in many places such as industries, home and offices. The generation of renewable energy mainly depends on the nature resources availability of the country. The need of generation of power supply using renewable energy system is an emergency growth to reduce the environmentally pollution done by non-renewable power system.

The progress in power generation sector of the country is extraordinary after independence. At present the whole capacity of the generated power system is about 1,236.39 TWh were it was only 1362 MW at the time of independence. A rapid increase in the generation of the power system due to increase in the consumption of the power source. The development of the country also depends on the production of power sources so as to satisfy the total consumption of the population. The following various corporations sectors were involved in the power system generation as State Electricity Boards (SEB), National Thermal Power Corporation (NTPC), National Hydro-Electric Power Corporation (NHPC) and Power Grid Corporation Limited (PGCL) etc.

The installed Capacity by source as on 31st November 2017 as shown in Fig. 1

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Special Issue

Identifying the Stabilizing Region of PID Controller Using Polytopic Polynomial Approach for Pilot Plant Binary Distillation Column

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ABSTRACT

The article presents the algorithm for identifying the stabilizing region of Proportional Integral Derivative (PID) controller, based on polytopic polynomial approach for a pilot plant binary distillation column. The distillation column is a Multiple Input Multiple Output (MIMO) process with all inputs and outputs are coupled to each other. This demands the development of robust control system to have the optimal utilization of available resources. Thus, decoupler is used to make MIMO system to multiple Single Input Single Output (SISO) system. The decoupler designed in the present research is used to reduce the interaction effect in the process. The decentralized PID controller is designed, in the current research, using D-decomposition method. Further, all the simulations are performed using MATLAB/ Simulink, and MAPLE software. Finally, the identified PID controller is validated through real-time experimentation.

Keywords: Distillation column, Decoupler, PID controller, Stabilizing region

1. INTRODUCTION

Distillation columns are most widely used in the chemical and petrochemical industries to separate chemical components into pure product streams. This separation is based on differences in the boiling point of various chemical components [1]. Distillation column contains a vertical column where the trays are used for component separations. A reboiler is used to provide heat for the necessary vaporization from the bottom of the distillation column. The condenser is used to cool, and condense the vapour from the top of the distillation column. Reflux drum is used to hold the condensed vapour so that liquid can be recycled back from the top of the column [2, 3]. The main objective of the present research is to form the control algorithm for a distillation column, modelled as TITO (Two Input Two Output) process for closed loop,

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EXPERIMENTAL IMPLEMENTATION OF CDM BASED TWO MODE CONTROLLER FOR AN INTERACTING 2*2 DISTILLATION PROCESS

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ABSTRACT:

The article illustrates the implementation of CDM based two mode controller for an interacting 2*2 distillation process. The decouplers are designed for the system to minimize the interaction between the loops, and first order plus dead time model is achieved for each decoupled subsystem. By using the graphical relationship between the controller and performance criteria the tuning parameters of two mode controller is obtained.This control strategy is demonstrated both in simulation and real-time environment using MATLAB/Simulink software. Also the closed loop performance indices are tabulated.

KEYWORDS: MIMO Process, Gain Margin, Phase Margin, Coefficient Diagram Method, Decouplers

1. INTRODUCTION

All chemical processes in process industries usually have two or more controlled outputs requiring two or more manipulated variables such process generally called as MIMO (Multi Input Multi Output) process. Despite the considerable work that has been done on advanced multivariable controller for MIMO systems, multiloop PI controllersare favored in most commercial process control applications.The controller is designed and implemented on each loop by considering the loop interactions and internal coupling with time delay. Multiloop controllers have been widely used because of their better performance and robustness. In the current research, a simple decoupler plus decentralized PI controller is proposed for an interacting 2*2 distillation process based on the desired gain and phase margin.The article is organized as follows: Section 2 presents Decoupler design; Section 3 gives a brief summary on Coefficient Diagram Method (CDM), Section 4 gives the expressions for PI Controller design. Section 5 describes the experimental setup. The simulation and implementation results of CDM based two mode controller is shown in Section 6, which is then followed by conclusions.

2. DECOUPLER DESIGN

Decoupler design is one of the widely accepted techniques to diminish the interactions between the control loops. The essence of decoupler is to compensate the effect of interaction between the loops. The design of decoupling controller matrix is very important. The decoupling controller can be obtained by the method proposed by Wang et al [6]. In order to design a simple decoupling controller [7]the loop transfer function is a first order plus dead time model then the diagonal elements are

Design of IMC Based Independent Multi-Loop PI Controller for Interacting Pilot Plant Distillation Column

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Abstract— This article illustrates a novel method for the design of IMC based independent multi-loop PI controller for an interacting pilot plant distillation column. The idea of an effective open-loop transfer function is first introduced to decompose a multi-loop control system into a set of equivalent independent single loop. This open loop transfer function is further approximated to the reduced order form. Based on the EOTF model, the individual controller of each single loop is then independently design by applying the internal model controller based PI tuning approach for the system. This control methodology is demonstrated both in simulation and real-time environment using MATLAB/Simulink software. Also the closed loop performance indices are tabulated.

Keywords— Multi-loop Controller, Decentralized controller, MIMO process, Decoupler.

I. Introduction

All processes in chemical industries usually have two or more controlled outputs requiring two or more manipulated variables such processes are generally termed as MIMO (Multi Input Multi Output) process. The multi-loop PI controller is designed and implemented on each loop by considering the loop interactions and internal coupling with time delay. Multi-loop controllers have been widely used because of their better performance and robustness. The article is organized as follows: Section 2 presents decoupler design; Section 3 gives a brief summary on Model reduction, Section 4 describes the experimental setup. The simulation and implementation results of multi-loop PI controller is presented and discussed in Section 5, followed by conclusion.

II. Decoupler Design

Decoupler design is one of the widely accepted techniques to diminish the interactions between the control loops. These are utilized to decouple the interacting or coupled processes. Decoupler decomposes a MIMO process into independent single loop sub-systems. Method proposed by Wang et al. [4] is utilized to design the decoupler for TITO processes.

Consider a MIMO processes is as given

$$G(s) = \begin{pmatrix} g_{11}e^{-\tau_{11}s} & g_{12}e^{-\tau_{12}s} \\ g_{21}e^{-\tau_{21}s} & g_{22}e^{-\tau_{22}s} \end{pmatrix} \quad (1)$$

Let the off-diagonal elements of G(s) have no RHP poles and diagonal elements of G(s) have no RHP zeros then decoupler matrix is as ;[7]

$$D(s) = \begin{pmatrix} 1 & \frac{-g_{12}}{g_{11}} \\ -\frac{g_{21}}{g_{22}} & 1 \end{pmatrix} \quad (2)$$

III. Design of PI Controller for Reduced EOTF Model

A two-input, two-output multi delay process is one of the most commonly encountered multivariable process in chemical industry. A simple model reduction technique is applied to approximate the EOTF to first-order plus dead time (FOPDT). For a 2*2 system, the general transfer function matrix is represented as

$$G(s) = \begin{bmatrix} g_{11}(s) & g_{12}(s) \\ g_{21}(s) & g_{22}(s) \end{bmatrix} \quad (3)$$

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Application of LabVIEW in Digital System Design and Image Processing

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ABSTRACT

The main objective of this article is to simulate the experiment of digital logic using LabVIEW. This article explains the application of LabVIEW in digital logic experimental teaching, and completed design of the assembly logic circuit output system and extinguished zero function of 12 digital display system and displayed the result by digital display. The actual experimental results verify the correctness of the simulation system, enrich the digital logic experiment teaching method and means, and enhance the students learning interest and enthusiasm.

Keywords: LabVIEW, Digital Logic Experiment, Seven Segment Display.

I. INTRODUCTION

LabVIEW [1] is a graphical programming language that uses icons instead of lines of text to create applications. In contrast to text-based programming languages, where instructions determine program execution, LabVIEW uses dataflow programming, where the flow of data determines execution order. LabVIEW also includes several wizards to help you quickly configure your DAQ devices and computer-based instruments and build applications. In LabVIEW, you build a user interface by using a set of tools and objects. The user interface is known as the front panel. You then add code using graphical representations of functions to control the front panel objects. The block diagram contains this code. In some ways, the block diagram resembles a flowchart. Users interact with the Front Panel when the program is running. Users can control the program, change inputs, and see data updated in real time. Every front panel control or indicator has a corresponding terminal on the block diagram. When a VI is run, values from controls flow through the block diagram, where they are used in the functions on the diagram, and the results are passed into other functions or indicators through wires.

In the front panel of LabVIEW, under control choose board, Boolean control provided all kinds of Boolean input control, including various button, switch and lamps circuit components, as shown in Fig.1. Boolean transport operator choose board of program diagram function choose provided fully functional logic operator, as shown in Fig.2. To design programs for Indicator light when logic really ("1") and lights out to show logical false ("0"). LabVIEW also has the function of creating subVI; users can need according to oneself design subVI to realize special function

Simple way of tuning Centralized PI Controller for Interacting Pilot Plant Distillation Column

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Abstract. A simple robust control technique based on centralized PI is proposed for an interacting pilot plant distillation column. The diagonal elements of the overall open loop transfer function of the system are reduced to first order plus dead time (FOPDT) model. The proposed method considers Steady State Gain Matrix and loop transfer function parameters like time delay and time constant for the centralized controller design. The proposed controller method is validated using Wood and Berry distillation column and pilot plant binary distillation column. The servo response shows that the designed centralized PI controller have good robust stability and performance.

Keywords: Centralized Control, MIMO process, Steady state gain, PI control.

1 Introduction

All process industries have many manipulated and controlled variables. For a MIMO systems, the loop interaction and existence of dead time and time delay creates a challenging task in designing a controller. Because of this interacting behavior, the MIMO process can be controlled by multi-loop controller or centralized controller. In this current research a simple method of designing a centralized PI controller is proposed for an interacting pilot plant distillation column.

A typical distillation column used in the chemical industries is to separate a mixture of components into two or more products based on their volatility. In the present research, a mixture of Isopropyl alcohol and water are considered for the distillation. The manipulated variables are the reflux flow rate (L) and reboiler power rate (Q), whereas the controlled variables are the tray temperatures T5 and T1 [8].

This paper is systematized as follows: Section 2 describes design methodology for Proportional-Integral Controller. Section 3 represents the design and simulation results of the proposed PI controller for both Wood Berry model and Lab Scale Pilot Plant Distillation column model followed by conclusion.

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Application of LabVIEW in Digital System Design and Image Processing

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Abstract: The main objective of this article is to simulate the experiment of digital logic using LabVIEW. This article explains the application of LabVIEW in digital logic experimental teaching, and completed design of the assembly logic circuit output system and extinguished zero function of 12 digital display system and displayed the result by digital display. The actual experimental results verify the correctness of the simulation system, enrich the digital logic experiment teaching method and means, and enhance the students learning interest and enthusiasm.

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1. INTRODUCTION

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In the front panel of LabVIEW, under control choose board, Boolean control provided all kinds of Boolean input control, including various button, switch and lamps circuit components, as shown in Fig.1. Boolean transport operator choose board of program diagram function choose provided fully functional logic operator, as shown in Fig.2. To design programs for Indicator light when logic really ("1") and lights out to show logical false ("0"). LabVIEW also has the function of creating subVI; users can need according to oneself design subVI to realize special function

Fig.1. Boolean Control Palette

Fig.2. Boolean Functions Palette

Digital Clock using Microcontroller in Multisim

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ABSTRACT: Digital clock is displays the time using Real time Clock. This circuit is used many applications like cars, railway stations, houses, offices, etc. in order to provide accurate time and date. In this type of applications, normally we use RTC ICs to display the time data accurately. This circuit also uses seven segment displays to display time ie. Minutes and Seconds, accurately. For every change in seconds and minutes a delay is given so that the variations in time can be observed by normal eyes. Here 8051 controller is used to display the time. Common anode type seven segment displays is used. This work can be extended with the help of Real Time Clock Chip which is configured by programming 8051 controller. Here the controller IC reads data continuously from Real Time Clock and processes it in correct order to display on time on LCD.

I. INTRODUCTION

A clock is an instrument for measuring time. In principle, it requires no more than some physical process which will proceed at a known rate, and a way to gauge how long that process has been continuing. There are different types and sizes of clocks are available. Depending on the method of time display, clocks can be classified by four types. They are i) analog clocks, ii) digital clocks, iii) auditory clocks, iv) textual clocks. Digital clocks display a numeric representation of time. Two numeric display formats are commonly used on digital clocks. They are: 24-hour notation with hours ranging 00 to 23 and 12 hour notation with AM/PM indicator. Most digital clocks use an LCD or LED display. Generally for the designing a digital clock, a microcontroller is used as the controller of the circuit and a Real Time Clock IC [4] is used as counter.

Clock algorithm design consists of two steps. 1) Time counting process 2) Time adjustment process 1) Time counting process: The responsibility of this process is to count time. At beginning of the process hour, minute and second are set to zero. After passing each second, second is incremented and checked if it exceeds fifty-nine. When second exceeds fifty-nine then second is set to zero and minute is incremented. After passing one minute, it is checked if minute exceeds fifty-nine. when minute exceeds fifty-nine then minute is set to zero and hour is incremented. After passing one hour, it is checked if hour exceeds twenty-three. When hour exceeds twenty-three then hour is set to zero and the process continues all over again. 2) Time adjustment process: The responsibility of this process is to adjust time. This process starts when the user has pressed the SET button. Then, it is checked if the INCREMENT button is pressed. If Yes then hour is incremented and checked if the value is twenty-four. If Yes then hour is set to zero. On the other hand, if the DECREMENT button is pressed then hour is decremented and checked if the value is minus one. If Yes then hour is set to twenty-three. The user again presses the SET button for modifying minutes. It is checked if the INCREMENT button is pressed. If Yes then minute is incremented and checked if the value is sixty. If Yes then minute is set to zero. If the DECREMENT button is pressed then minute is decremented and checked if the value is minus one. If Yes then minute is set to fifty-nine. Similarly, the user again presses the SET button for altering seconds. It is checked if the INCREMENT button is pressed. If Yes then second is incremented and checked if the value is sixty. If Yes then second is set to zero. if the DECREMENT button is pressed then second is decremented and checked if the value is minus one. If Yes then second is set to fifty-nine. Now, the user again presses the SET button to stop the process.

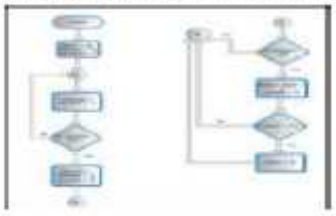

Figure1. Flowchart for Clock Sequence

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Self B - Adaptive Key Generation for Primary Users in Cognitive Radio Networks for Less Prone Primary User Emulation Attacks

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Abstract

Primary user attack is the major problem in the Cognitive Radio networks. Dynamic Spectrum sharing is the major advantage of Cognitive radio networks in which primary users (PU) are prioritize and authorized for using the spectrum than the Secondary users (SU). The problem arises when the Secondary users mimic the characteristics of the Primary users and use the spectrum without any deadline and make the primary users to queue for spectrum sharing. Hence the centralized system for the detection of primary attacks has been proposed. The algorithm follows the principle of Self B-Adaptive Keys for the Primary Users and keys are forwarded to the Intelligent Learning Center which can detect the different parameters ofthe primary users such as the RSSI, Power, Distance and Channel ID optimizes and compares with the thresholds which are already in the Intelligent learning centers. Hybrid PSO is used for the optimization of characterization of the primary users and Cognitive Rule Sets has been designed for the determination of the presence of the primary users among the different users in the network. The proposed scenario has been implemented in the ARM CPU as main test bench and MATLAB for the optimization and classification.

Keywords: *Self Adaptive keys, Cognitive Rule Sets, Hybrid PSO, Power, Distance, RSSI*

1. Introduction

Primary User Emulation Attack is one of the serious threatsin Cognitive radio network. With this kind of attacks, the Secondary users follow the primary user characteristics and make uses of the spectrum completely. This leads to the authorized primaryusers may use the spectrum in an inefficient manner. Several algorithms were proposed for this prevention of the attacks but every algorithm has its own advantage and disadvantages but the major problem is the lack of intelligence in the classification of the primary users among the user.

Hence the intelligent algorithm should be imparted in the classification of the user. The proposed algorithm so called Self B-Adaptive key generation for the Primary user at the Transmitter and the Intelligent Learning Center at the receiver side for the classification of the primary users. The proposed algorithm works on the generation of the key depends on the Energy, RSSI, distance and optimized by the Hybrid PSO Methods.

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SMART PARKING SYSTEM USING RFID

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ABSTRACT: Due to the increasing population and the traffic of vehicles it is very important to have an efficient parking system, to save the time and other parking problems. Our paper uses RFID that saves the confusion among the parking slots and issues the exact bill amount for the time a parking space was used. The paper also describes a high-level view of the system architecture. Towards the end, the paper discusses the working of the system in form of a prototype that proves the correctness of the proposed model.

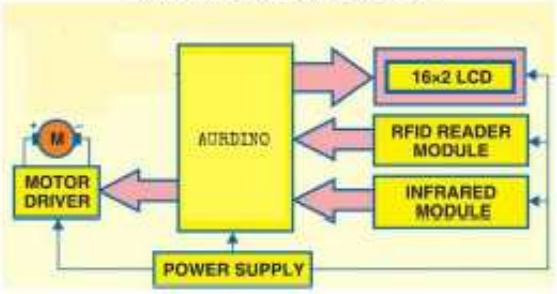
KEY WORDS – Radio Frequency identification RFID, Infrared IR, Liquid Crystal Display LCD, Aurdino, Servo motor.

I.INTRODUCTION

In the existing system there is no automation used for parking Lots. Manpower required to maintain the car parking and the driver doesn't know the exact free lots available in the Parking space. Radio-frequency identification (RFID) is an automatic identification method wherein the data stored on RFID tags or transponders is remotely retrieved. The RFID tag is a device that can be attached to or incorporated into a product, animal or person for identification and tracking using radio waves. Some tags can be read from several metres away, beyond the line of sight of the reader.

RFID technology is used in vehicle parking systems of malls and buildings. The system normally consists of a vehicle counter, sensors, display board, gate controller, RFID tags and RFID reader. Presented here is an automatic vehicle parking system using AURDINO microcontroller.

II.BLOCK DIAGRAM



III.COMPONENT DETAILS

RFID system fundamentals

Basically, an RFID system consists of an antenna or coil, a transceiver (with decoder) and a transponder (RF tag) electronically programmed with unique information. There are many different types of RFID systems in the market. These are categorised on the basis of their frequency ranges. Some of the most commonly used RFID kits are low-frequency (30-500kHz), mid-frequency (900kHz-1500MHz) and high-frequency (2.4-2.5GHz).

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QUADROTOR USING ARDUINO

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ABSTRACT

To assemble and calibrate a semi-autonomous quadcopter which can be controlled by a wireless remote controller using Arduino Uno.

The microcontroller has been programmed to receive inputs from the remote controller, gyroscope and control the Electronic Speed Controllers which in turn control the four motors.To achieve flight, two of the motors must apply downward force and the other two motors have to apply an upward force. To turn, one pair (left or right side) of motors slows down to turn the copter. To ascend, all motors will increase in speed, and will all decrease in order to descend. To move forward, the front two motors will decrease while the back two motors will increase and vice versa in order to move in a backwards direction.

Introduction

A quadcopter, also called a quadrotor helicopter or quadrotor, is a multirotor helicopter that is lifted and propelled by four rotors. Quadcopters are classified as rotorcraft, as opposed to fixed-wing aircraft, because their lift is generated by a set of rotors (vertically oriented propellers).

Quadcopters generally use two pairs of identical fixed pitched propellers; two clockwise (CW) and two counterclockwise (CCW). These use independent variation of the speed of each rotor to achieve control. By changing the speed of each rotor, it is possible to specifically generate a desired total thrust; to locate for the centre of thrust both laterally and longitudinally; and to create a desired total torque, or turning force.

Quadcopters differ from conventional helicopters, which use rotors that are able to vary the pitch of their blades dynamically as they move around the rotor hub. In the early days of flight, quadcopters (then referred to either as 'quadrotors' or 'helicopters') were seen as possible solutions to some of the persistent problems in vertical flight. Torque-induced control issues (as well as efficiency issues originating from the tail rotor, which generates no useful lift) can be eliminated by counter-rotation, and the relatively short blades are much easier to construct. A number of manned designs appeared in the 1920s and 1930s. These vehicles were among the first successful heavier-than-air vertical takeoff and landing (VTOL) vehicles. However, early prototypes suffered from poor performance, and latter prototypes required too much pilot work load, due to poor stability augmentation and limited control authority.

In the late 2000s, advances in electronics allowed the production of cheap lightweight flight controllers, accelerometers (IMU), global positioning system and cameras. This resulted in the quadcopter configuration becoming popular for small unmanned aerial vehicles. With their small size and maneuverability, these quadcopters can be flown indoors as well as outdoors.

At a small size, quadcopters are cheaper and more durable than conventional helicopters due to their mechanical simplicity. Their smaller blades are also advantageous because they possess less kinetic energy, reducing their ability to cause damage. For small-scale quadcopters, this makes the vehicles safer for close interaction. It is also possible to fit quadcopters with guards that enclose the rotors, further reducing the potential for damage. However, as size increases, fixed propeller quadcopters develop disadvantages over conventional helicopters. Increasing blade size increases their momentum. This means that changes in blade speed take longer, which negatively impacts control. Helicopters do not experience this problem as increasing the size of the rotor disk does not significantly impact the ability to control blade pitch.

POWER EFFICIENT RESOURCE ALLOCATION OF OFDMA WIRELESS NETWORK

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Multihop cellular network have drawn great attention for the future generation cellular network because of it through put and coverage. But still there are few problems facing by MCN's are interference and frequency resources which leads to traffic congestion and lack in QOS. Thus paper introduces the heuristic algorithm which provides a good Quality of Service (QoS) and reduced interference compared to the existing techniques. Power allocation of cell-edge users is optimized through radio resources. Simulation result shows the throughput achieved for cell-edge and cell-Centre users using power allocation.

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ENHANCEMENT OF POWER EFFICIENCY IN 5G- MASSIVE MIMO SYSTEM USING INNOVATIVE ALGORITHM TECHNIQUE

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Massive MIMO is the presently most compelling sub-6 GHz bodily-layer generation for destiny Wi-Fi. The 5G structures are characterized via high transmission data quotes, 1Gbps and above, so huge bandwidth transmission is anticipated. The maximum critical goals inside the design of 5G Wi-Fi systems are to address the extreme inter symbol interference (ISI) as a result of the excessive statistics prices, and to make use of the available bandwidth in spectrally efficient manner. To aid the time various QoS in multiuser surroundings for 5G structures (Massive -MIMO) is the robust candidate. Channel fading is distinctive at different sub companies, this feature may be exploited for allocating the subcarriers to the users in line with the immediately channel nation facts (CSI). A very excessive facts rate is most desired for the usage of multimedia and Internet, so on this paper surveys the overall performance of Shannon Hartley theorem and Eigen matrix set of rules which allocates the channels to customers for high facts prices inside the uplink and downlink transmission of MC-CDMA structures. This paper particularly analyzes the BER performance beneath Rayleigh fading channel conditions of MC-CDMA in presence of AWGN (Additive White Gaussian Noise) the usage of QPSK modulation for distinct number of subcarrier, special quantity of customers using MATLAB program.

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Rectangular Microstrip Patch Antenna Design

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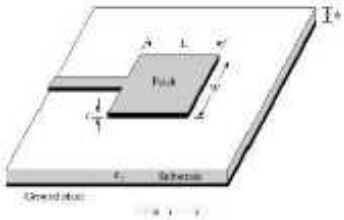
Abstract:

This article presents the design of Rectangular Microstrip Patch antenna for communication. The simple patch antenna can be designed by varying the substrate and the thickness of the substrate. In Microstrip patch antenna (MPA) design, choosing the substrate is difficult task because, the designer should select the proper substrate material, to get the proper Gain value, Radiation pattern, Return loss and Impedance bandwidth. This paper presents how the rectangular Microstrip patch antenna can be designed and the performance of patch antenna varies when we are changing the substrate thickness and substrate materials. The proposed antenna operates at a band of WiMAX, Wi-Fi and ISM.

Key words: Rectangular MPA, Wi-Fi and ISM.,

Introduction

The Microstrip patch antenna contains very compact in size, it requires less power, fast data
transmission and better return loss. The challenging task in the antenna design is Electromagnetic Interference and Compatibility (EMI/EMC). So we need to analyse the performance of the proposed antenna by varying the substrate materials. The proposed antenna is used for most of the ISM and ultra-wide band applications. In this article we study about the different substrate materials used in Microstrip patch antenna design and the thickness of the substrate. The simple patch antenna is shown in the fig.(1)



The Patch antenna consists of Ground plane, substrate, Patch and Feed line. It gives the different
Antenna parameters, Metamaterial as a composite material structure that exhibits a special property like negative refractive index or left-handed materials. It gives a polarization in negative direction because of negative μ and negative ε. The Metamaterial can enhance the directivity, gain of the patch antenna and reduce the return loss. The variation in gap size of Split ring resonator (SRR) improves the Bandwidth of patch antenna. These Metamaterial structures miniaturize the antenna, inducing the resonator.

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Performance Analysis of Simple Microstrip Patch Antenna

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Abstract:

The present paper deals with the design of simple patch antenna performance by varying the substrate and the thickness of the substrate. In Microstrip patch antenna (MPA) design,choosing the substrate is difficult task because, the designer should select the proper substrate material, to get the proper Gain value, Radiation pattern, Return loss and Impedance bandwidth. This paper presents, how the performance of patch antenna varies when we are changing the substrate thickness and substrate materials. The proposed antenna operates at a band of ISM and it gives the comparative analysis of substrate materials.

Key words: Rectangular MPA, Substrate Materials, ISM band, UWB.,

Introduction

The Microstrip patch antenna contains very compact in size, it requires less power, fast data transmission and better return loss. The challenging task in the antenna design is Electromagnetic Interference and Compatibility (EMI/EMC). So we need to analyse the performance of the proposed antenna by varying the substrate materials. The proposed antenna is used for most of the ISM and ultra-wide band applications. In this article we study about the different substrate materials used in Microstrip patch antenna design and the thickness of the substrate.The simple patch antenna is shown in the fig.(1)

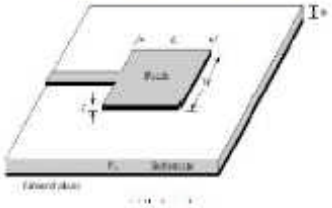

Fig.1

The Patch antenna consists of Ground plane, substrate, Patch and Feed line. It gives the different antenna parameters like, Impedance bandwidth, Radiation pattern, Gain, Return loss etc., Payal Kalra et. al (1)demonstrated the design and analysis of terahertz microstrip patch antenna for detection of plastic explosive SEMTEX by deploying Fr4 material as substrate of thickness 1.62 μm with dielectric constant of 4.4 whereas the radiating patch and ground plane are made up of copper material having high conductivity and low resistivity. From the result it is observed that the antenna has an input impedance of 49.15 Ω which resonates at 4.32 THz frequency with return loss of -52.10 dB and with a gain of 5.88 dB and directivity of 5.75 dBi which makes it highly suitable for detection of plastic explosive SEMTEX. Abdol Aziz Kalteh et. al (2) designed the antenna consists of a circular ring exciting stub on the front side and a circular slot on the back ground plane. By utilizing a parasitic strip and a T-shaped stub. The antenna structure is fabricated on a dielectric substrate of FR4 epoxy substrate with relative permittivity (εr) of 4.4, thickness of 1.6 mm. from the