

Master of Science – (Electronics), SEM-I

Course:	EL-411: Mathematical Methods						
Course Outcomes	<p>CO1 : At the end of the course, the students will be able to use different mathematical methods to study problems in non-linear sciences.</p> <p>CO2 : Understand the methods to ordinary differential equations. understand the methods to solve Nonlinear Schrodinger type equations</p> <p>CO3 : Uunderstand the concepts and application of solutions.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						

Course:	EL- 412: Microcontroller and Applications						
Course Outcomes	<p>CO1 : Being Advance subject, Microcontroller and its application is introduced in the curriculum.</p> <p>CO2: In the field of electronics & Instrumentation the micro controller base circuits play important roll.</p> <p>CO3: Therefore the employability of the student's in the Industry increases.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						

Course:	EL-413: Measurement, Instrumentation and Experimental Planning						
Course Outcomes	<p>CO1 : At the end of the course, the students will be able to acquire the knowledge about the different errors occurring during measurement.</p> <p>CO2 : Understand the principle behind the instrumentation for measurement.</p> <p>CO3 : Identify the various transducers involved in measurement .</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						

Course:	EL- 414: C and CAD for Electronics						
Course Outcomes	<p>CO1 : At the end of the course, the students will learn higher level language programming and their basic.</p> <p>CO2 : The skill to write the programming using IF, FOR, WHILE and DO statement and there are aware global automatic static variables.</p> <p>CO3 : Student's do best exercise for simulation for electronics circuit using simulation program per Integrated Circuit Enchases (Spice)</p>						

Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						

Course:	EL-415: Practical's						
Course Outcomes	<p>CO1 : At the end of course work, students are update about skills of measurement of various electronic Components, soldering , Circuit layout etc.</p> <p>CO2 : The design approach is a simple step-by-step Procedure in which the student knows exactly why each Component Value is Selected.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						

Master of Science – PHYSICS, SEM-II

Course:	EL - 421: Digital Signal Processing						
Course Outcomes	<p>CO1 : The students will learn basic Principles of Digital Signal processing and roll of Signal functions in signal processing.</p> <p>CO2 : Student's may aware with system properties and basic of Fourier, Laplace and other transformations and basic terms associated with properties and transformation.</p> <p>CO3 : The basic introduction of Discrete, Fourier, Transformations (DFT), DDFT, IDFT and their utility in digital filter designing.</p> <p>CO4: The Applications of Digital signal processing are briefly cover in this syllabus. So, students learn and thing about their present and future applications.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						

Course:	EL- 422 : Op Amp & Circuit Designing
Course Outcomes	<p>CO1: The Student Will relays Practical Application or Operational They Learn the basic term Associated with op Amp to.</p> <p>CO2 : the Student may Premier general linear applications of Op Amp this concept may help them to think about special Application about Op Amp</p> <p>CO3 : The student may understand the basic design concept of the use of Op Amp single and dual power supply they may also learn about the use of feedback circuit Op Amp</p> <p>CO4: A student may aware with basic idea of interfacing of and Op Amp</p>

	for ADC & DAC Circuit.						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						

Course:	EL-423:- Electromagnetic Fields and Waves						
Course Outcomes	CO1 : At the end of the course, the students will be able to understand the basic concepts nucleus and its properties. CO2 : To gain the knowledge on elementary particles.						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						

Course:	EL- 424: Electronic Communication-I						
Course Outcomes	CO1 : The course provides excitement of the electronic communication field as well as background essential for advanced study in communication systems. CO2 : The practicing students will find it of service to update their knowledge in the field.						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						

Course:	EL-425: Practical's						
Course Outcomes	CO1 : At the end of the Course work, the students are familiar about the design and analysis of all the Basic semiconductor Circuit Apart from discrete Component. CO2 : Circuits, the design procedure for using IC operational amplifiers in various circuits is discussed. CO3 : Students are aware of operation of transducers.						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						

Master of Science – PHYSICS, SEM-III

Course:	EL - 531: Microwave						
Course Outcomes	CO1 : The students will learn about basic devices used for production and applications of Microwave frequencies.						

	<p>CO2 : The Devices like Tunnel Diode, MIS diode, IMPATT diode, TRAPATT diode, BARITT diode.</p> <p>CO3: Students will learn about Microwave transmission lines, Smith chart, Impedance matching, Couplers and Isolators.</p> <p>CO4: The students may aware with basics of Reflex klystrons, and Helix travelling wave tubes and Agile coaxial magnetrons.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						

Course:	EL- 532 : Optoelectronics						
Course Outcomes	<p>CO1: At the end of the Course work, it Provides the Students with a general understanding of the Characteristics of Optical Fibers and how they are used in a telecommunication system courses in Communication theory would be helpful for gaining a full understanding of the material.</p> <p>CO2: The course Progresses Systematically from descriptions & the individual elements of System designs and ends with discussion of measurement techniques for evaluating components & systems</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						

Course:	EL-533:- Solid State Devices						
Course Outcomes	<p>CO1 : The syllabus provide an introduction to theory of Semiconductor Device.</p> <p>CO2 : The emphasis on vital understanding of both the operation of present day devices will be benefited of present day device will be benefited to further development of new Semiconductor device in the field.</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						

Course:	EL- 534: Instrumentation						
Course Outcomes	<p>CO1 : At the end & the course , Students are upload in the area of measurement and indirectly allied to that of laboratory teaching.</p> <p>CO2 :The primary emphasis is on the measurement of Physical & mechanical variables encountered in experimental investigations & industrial processes.</p> <p>CO3: The Students also need to Put into action concepts of accuracy and Precision when diagnosing Problems and maintaining medical and laboratory equipment</p>						
Mapping between COs with PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6

	CO1						
	CO2						
	CO3						

Course:	EL-535: Practicals																					
Course Outcomes	CO1 : At the end of the Course work ,an attempt has been made to introduce the concepts of modern digital techniques and IC, for realization of various functions. CO2 : The Students are aware of experiments related with Microware & C-programming strong emphasis is placed on basic experiments of Electronics communication.																					
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Master of Science – PHYSICS, SEM-IV

Course:	EL - 541: Laser and its Applications																												
Course Outcomes	CO1 : At the end of the course work, the student has to knowledge of the basic theory behind Laser Operation and Its properties throughout. CO2 : the treatment has been kept as simple as positive with some familiarity of electromagnetic theory and non-linear optics.																												
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CO3																													

Course:	EL- 542 : Integrated Circuits Technology																												
Course Outcomes	CO1 : The students learn about classification of Integrating circuits and how the IC's are fabricated. CO2 : The students may also aware with basic steps of IC's fabrication processes like Crystal Growth, Epitaxial growth, Oxidation Photo litho grapy diffusion and metallization. CO3: The students are familiarize with IC fabrication methods for fabrication of BJT, FET, MOSFET and SMOS. CO4: The students may aware with topical concept for IC's, they may also aware with different types of Bonding and packages for ICs																												
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CO2																													
CO3																													

Course:	EL-543:- Analog & Digital Electronics
Course Outcomes	CO1 : The course contains the advance topics of Microelectronics like, NMOS, CMOS, BIFET-BIMOS-BICMOS, ECL and CCD

