



**LIST OF COURSES OFFERED (M.Tech. Programmes) / Even Semester (2010)**

**M.Tech. (ENERGY ENGINEERING)**

Code	Course of Study	Credit	Slot	Name of the Faculty
CL704	Solar Energy Engineering	3	A	Dr.(Ms.) K. N. Sheeba
CL702	Energy Audit And Management	3	B	Dr.(Mrs.)M.Premalatha
CL706	Bio Energy Engineering	3	C	Dr. H. Janardhana Prabhu
CL712	Computational Fluid Dynamics	3	D	Dr. M. Perumalsamy
CL727	Optimum Utilization of Heat and Power	3	E	Dr. V. Gopala Krishnan
CL714	Batteries and Fuel Cells	3	F	Dr.M. Matheswaran
CL708	Solar Energy Engineering Lab	2	Q	Dr.(Mrs.)M.Premalatha

**M. Tech. (CHEMICAL ENGINEERING)**

Code	Course of Study	Credit	Slot	Name of the Faculty
CL602	Fluid Particle Technology	3	A	Dr. N. Anantharaman
CL604	Computer Aided Design	3	B	Dr. P. Sivashanmugam
CL606	Advanced Fluid Dynamics & Heat Transfer	3	C	Dr. A. Arunagiri
CL712	Computational Fluid Dynamics	3	D	Dr. M. Perumalsamy
HM712	Personnel management and Industrial relations	3	E	Mr. R. Murugesan
CL621	Optimization Techniques	3	F	Dr. S. Saravanan

**M.Tech. (PROCESS CONTROL & INSTRUMENTATION)**

Code	Course of Study	Credit	Slot	Name of the Faculty
CL652	Computer Control of Process	3	A	Dr. S. Narayanan
CL656	Chemical Process Flow sheeting	3	B	Dr. (Mrs.)P. Kalaichelvi
CL654	Industrial Communication Systems	3	C	Dr. N. Sivakumaran
CL666	Logic and Distributed Control System	3	D	Dr. M. Umapathy
HM712	Personnel management and Industrial relations	3	E	Mr. R. Murugesan
CL674	System Identification	3	F	Dr. A. Seshagiri Rao
CL698	Control & Instrumentation Lab	2	P	Dr. A. Ramakalyan Dr. K. Srinivasan

**M. Tech. (TRANSPORTATION ENGINEERING AND MANAGEMENT)**

Code	Course of Study	Credit	Slot	Name of the Faculty
CE605	Road Transport Management and Economics	3	A	Mrs. V. Sunitha
CE606	Transportation Planning		B	Dr. Samson Mathew
CE607	Computer Simulation Applications in Transportation Engineering	3	C	Dr. S.Moses Santhakumar
CE615	Bridge Engineering	3	D	Mr. R. Jayasankar
CE616	Theory of Traffic Flow	3	E	Dr. S.Moses Santhakumar
CE614	Ground improvement Techniques	3	E	Dr. K. Muthukumaran
CE714	Environmental Impact Assessment	3	F	Dr. S.T.Ramesh
CE608	CAD in Transportation Engineering	2	Q	Mrs. V. Sunitha

**M. Tech. (STRUCTURAL ENGINEERING)**

Code	Course of Study	Credit	Slot	Name of the Faculty
CE655	Stability of Structures	3	A	Dr. P. Jayabalan
CE656	Finite Element Methods		B	Dr. J. Karthikeyan
CE657	Theory of Plates and Shells	3	C	Dr. P. A. Krishnan
CE614	Bridge Engineering	3	D	Mr. R. Jayasankar
CE663	Maintenance and Rehabilitation of Structures	3	E	Dr.C.Natarajan
CE664	Design of Steel and Composite Structures	3	E	Dr. K. Baskar
CE614	Ground improvement Techniques	3	E	Dr. K. Muthukumar
CE666	Seismic Design of Structures	3	F	Dr. K. Baskar
CE658	CAD in Structural Engineering	2	Q	Dr. J. Karthikeyan

**M. Tech. (ENVIRONMENTAL ENGINEERING)**

Code	Course of Study	Credit	Slot	Name of the Faculty
CE705	Biological Process Design for Wastewater Treatment	3	A	Dr. S.T.Ramesh
CE706	Transport of Water and Wastewater	3	B	Dr. G. Swaminathan
CE707	Air Quality Management	3	C	Dr. T. Sivasankar
CE717	Contaminant Transport Modeling	3	D	Dr. R. Gandhimathi
CE719	Environmental Geotechnology	3	E	Dr. S. Jayalekshmi
CE721	River Engineering	3	E	Dr. K. Palanichamy
CE714	Environmental Impact Assessment	3	F	Dr. S.T.Ramesh
CE708	Environmental Microbiology and Engineering Laboratory	2	P	Dr. S.T.Ramesh

**M. Tech. (COMPUTER SCIENCE)**

Code	Course of Study	Credit	Slot	Name of the Faculty
CS702	Advanced Concepts in Database Systems.	3	A	Dr. K. Viswanathan Iyer
CS704	Distributed Systems	3	B	Dr. C. Mala
CS706	Advanced Digital Design	3	C	Prof. N. Ramasubramanian
CS714	Real-time systems	3	D	Dr. S. Mary Saira Bhanu
CS720	Wireless sensor networks	3	E	Dr. S Selvakumar
CS716	Network security	3	F	Mrs. R. Leela Velusamy
CS718	Principles of Cryptography	3	G	Mr. Kunwar Singh
	Seminar	2	-	-

**M.Tech. (POWER ELECTRONICS)**

Code	Course of Study	Credit	Slot	Name of the Faculty
EE656	Microcontroller applications in power converters	3	A	Dr. N. Ammasaigounden
EE654	Power Electronic Drives	3	B	Dr. K.Sundareswaran
EE652	Switched Mode Power Conversion	3	C	Mr. S. Senthil Kumar
EE626	Digital Controllers in Power Electronic Applications	3	D	Dr. Sishaj P.Simon
EE672	Digital Simulation of Power Electronic Systems	3	E	Dr. G. Saravana Ilango
EE620	Renewable Power Generation Sources	3	F	Dr. V. Sankaranarayanan
EE616	Computer Networking	3	G	Dr. S. Sudha
EE658	Power modules laboratory	2	Q	Mr.P.Raja

**M. Tech. (POWER SYSTEMS)**

Code	Course of Study	Credit	Slot	Name of the Faculty
EE604	High Voltage DC Transmission	3	A	Ms. M.Venkata Kirthiga
EE602	Power System Operation and Control	3	B	Dr. S.Arul Daniel
EE606	Flexible AC Transmission Systems	3	C	Dr. C. Nagamani
EE626	Digital Controllers in Power Electronic Applications	3	D	Dr. Sishaj P.Simon
EE 625	Power Quality	3	E	Dr.M.Jayabharatha Reddy
EE620	Renewable Power Generation Sources	3	F	Dr. V. Sankaranarayanan
EE616	Computer Networking	3	G	Dr.S.Sudha
EE608	Power System Simulation Lab	2	P	Dr. Sishaj P.Simon

**M.Tech. (COMMUNICATION SYSTEMS)**

Code	Course of Study	Credit	Slot	Name of the Faculty
EC606	Optical Communication Systems	3	A	Dr. D. Sriram Kumar
EC602	Advanced Digital Communication	3	B	Ms.R.K.Jeyachitra
EC656	Designing with ASICs	3	C	Dr.G.Lakshmi Narayanan
EC604	Broadband Wireless Technologies	3	D	Dr. P.Muthuchidambaranathan
EC616	RF MEMS	3	E	Dr. S. Raghavan
EC662	FPGA - based System Design	3	F	Dr. B.Venkataramani Ms.S.Deivalakshmi
EC612	Architecture of DSPs	3	G	Mr. M.Bhaskar
EC610	Signal Processing Laboratory	2	Q <sub>1</sub>	Ms.S.Deivalakshmi
EC608	Fiber Optics and Communication Laboratory	2	Q <sub>2</sub>	Ms.R.K.Jeyachitra

**M.Tech. (VLSI SYSTEMS)**

Code	Course of Study	Credit	Slot	Name of the Faculty
EC654	Electronic Design Automation Tools	3	A	Ms. R.Pandeeswari
EC652	VLSI System Testing	3	B	Ms. R.Thilagavathy
EC656	Designing with ASICs	3	C	Dr.G.Lakshmi Narayanan
EC666	Low Power VLSI circuits	3	E	Mr. M.Bhaskar
EC662	FPGA - based System Design	3	F	Dr. B.Venkataramani Ms.S.Deivalakshmi
EC612	Architecture of DSPs	3	G	Mr. M.Bhaskar
EC658	Analog IC Design Laboratory	2	P	Dr. B.Venkataramani
EC660	ASIC – CAD Laboratory	2	Q	Dr.G.Lakshmi Narayanan

**M.Tech. (INDUSTRIAL SAFETY ENGINEERING)**

Code	Course of Study	Credit	Slot	Name of the Faculty
ME654	Safety in Chemical Industry	3	B	Guest Faculty
ME656	Fire Engineering and Explosion Control	3	C	Guest Faculty
ME652	Computer Aided Risk Analysis	4	D	Dr. S.P. Sivapirakasam
ME675	Electrical Safety	3	E	Guest Faculty
ME676	Safety in Material Handling	3	F	Guest Faculty
ME658	Industrial Safety Lab	1	Y	Dr. S.P. Sivapirakasam

**M.Tech. (THERMAL POWER ENGINEERING)**

Code	Course of Study	Credit	Slot	Name of the Faculty
ME602	Fluid Mechanics of Turbomachines	3	A	Dr. R.B.Anand
ME634	Advanced Refrigeration and Air Conditioning	3	B	Mr. V. Mariappan
ME604	Instrumentation	3	C	Dr. K. Pannirselvam
ME638	Heat Transfer Equipment Design	3	D	Mr. S. Venkatachalapathy
ME636	Boiler Auxiliaries and Performance Evaluation	3	E	Dr. AR. Veerappan
ME606	Computational Fluid Dynamics	3	F	Dr. S. Shanmugam
ME642	Finite Element Method in Heat Transfer Analysis	2	B	Mr. N. Siva Shanmugam

**M.Tech. (MATERIALS SCIENCE AND ENGINEERING)**

Code	Course of Study	Credit	Slot	Name of the Faculty
MT662	High Temperature Materials	3	A	Dr.K.Siva Prasad
MT654	Composites and Polymers	3	B	Dr.V.Surianarayanan
MT656	Nanomaterials and Technology	3	C	Dr.T.Srinivasa Rao
MT665	Particulate Technology	3	D	Dr.K.S.Pandey
MT622	Surface Engineering	3	E	Dr.S.Natarajan
MT652	Ceramic Science and Technology	3	F	Dr.N.Ramesh Babu
MT658	Materials Testing & characterization Laboratory	2	Q	Dr.N.Ramesh Babu

**M.Tech. (WELDING ENGINEERING)**

Code	Course of Study	Credit	Slot	Name of the Faculty
MT602	Welding Metallurgy	3	A	Mr.S.Jerome
MT604	Welding Codes and Standards	3	B	WRI
MT606	Welding Processes - II	3	C	Dr.S. Muthukumaran
MT612	Design of Weldments	3	D	Dr.M.Ashfaq
MT622	Surface Engineering	3	F	Dr.S.Natarajan
MT614	Corrosion Engineering	3	G	Dr S.P.Kumaresh Babu
MT629	Welding Metallurgy Laboratory	2	P	Mr.S.Jerome

**M.Tech. (INDUSTRIAL ENGINEERING)**

Code	Course of Study	Credit	Slot	Name of the Faculty
PR652	Quality Engineering	3	A	Dr. R.Jeyapaul
PR656	Work Design and Ergonomics	3	B	Mr. S.Prasanna Venkatesan
PR654	Modeling and Simulation	3	C	Dr. S. Kumanan
PR668	Total Quality Management	3	D	Dr. K.Paneerselvam
PR672	Terotechnology	3	E	Dr S.Vinodh
PR666	Supply Chain Management	3	F	Mr. P.Parthiban
PR658	Simulation Lab.	2	P	Dr. S. Kumanan Mr. S.Prasanna Venkatesan

**M. Tech. (MANUFACTURING TECHNOLOGY)**

Code	Course of Study	Credit	Slot	Name of the Faculty
PR602	Production Automation & CNC Technology	3	A	Dr. J. Jerald
PR604	Mechanics of Metal Forming	3	B	Dr. R. Narayanasamy
PR618	Computer Aided Design and Manufacturing	3	C	Dr. M. Duraiselvam
PR606	Flexible Manufacturing Systems	3	D	Dr. T. Selvaraj
PR672	Terotechnology	3	E	Dr S.Vinodh
PR624	Manufacturing of Products from Non-metallic Materials		F	Mr. P.Senthil
PR608	CNC Technology Lab.	2	P	Dr. T. Selvaraj Dr. J. Jerald

**M. Tech. (NON DESTRUCTIVE TESTING)**

Code	Course of Study	Credit	Slot	Name of the Faculty
PH602	Ultrasonic Testing	3	-	Dr. S. Manivannan
PH610	Electrical, magnetic and optoelectronic materials	3	-	Dr. A. Chandra Bose
PH612	Nanoscience and technology & applications	3	-	Dr.J. Hemalatha
PH614	Advanced NDT techniques – I	3	-	Dr. N. V. Giridharan
PH616	Advanced NDT techniques – II	3	-	Dr. R. Nagalakshmi

**Associate Dean (Academic) /PG****Dean (Academic)**

To

All HODs

CC: Copy Submitted to the Director