

Engineering Sciences Coursework: PhD (Engg), after MTech

AcSIR

PhD (Engineering) Programme, after MTech

at

CSIR-CEERI, Pilani

(Admission Session: August, 2018)

Subject Code	Subject	L-T-P-C
ENG-CEERI-1-1501	Technical Communications	2-0-0-2
ENG-CEERI-2-1501	Project Management	2-0-0-2
ENG-CEERI-2-1511	Advanced Engineering Mathematics	3-0-0-3
ENG-CEERI-2-1512	Signal processing and Machine Learning	3-0-0-3
ENG-CEERI-2-1522	Lab: Signal processing and Machine Learning	0-0-2-1
ENG-CEERI-2-1502	Seminar (Non-Credit Compulsory)	0-1-1-0
ENG-CEERI-2-1513	Foundation of Cyber Physical Systems	3-0-0-3
ENG-CEERI-2-1514	Smart Sensors and Interface Electronics	3-0-0-3
ENG-CEERI-2-1515	Microwaves: Devices and System Engineering	3-0-0-3
ENG-CEERI-2-1516	Measurement and Characterization Techniques	2-0-0-2
ENG-CEERI-2-1526	Lab: Measurement and Characterization Techniques (as per Focus Area)	0-1-3-2
ENG-CEERI-2-1517	Modelling and Simulation	2-0-0-2
ENG-CEERI-2-1527	Lab: Modelling and Simulation (as per Focus Area)	0-1-3-2
ENG-CEERI-3-1501	Advanced Self-Study (Special Topic)	0-2-4-4
ENG-CEERI-3-1511	Image Processing and Computer Vision	3-0-0-3
ENG-CEERI-3-1512	Cognitive Systems	3-0-0-3
ENG-CEERI-3-1513	Embedded Intelligence	3-0-0-3
ENG-CEERI-3-1514	Photonic and Optoelectronic Devices and Technologies	3-0-0-3
ENG-CEERI-3-1515	Flexible and Non-Silicon Materials, Devices and Technologies	3-0-0-3
ENG-CEERI-3-1516	Advanced Microwave Materials and Their Applications	3-0-0-3
ENG-CEERI-3-1517	Plasma Physics and Applications	3-0-0-3
ENG-CEERI-3-1518	Terahertz Devices and Systems	3-0-0-3
ENG-CEERI-3-1519	Advanced Communication Systems	3-0-0-3
ENG-CEERI-3-1520	Security and Privacy in Cyber Physical System	3-0-0-3
ENG-CEERI-3-1521	Mixed-Signal Circuit Design	3-0-0-3
ENG-CEERI-3-1531	VLSI System Design	2-0-0-2
ENG-CEERI-3-1551	Lab: VLSI System Design	0-1-3-2
ENG-CEERI-3-1532	Advanced Machine Learning and Applications	2-0-0-2
ENG-CEERI-3-1552	Lab: Advanced Machine Learning and Applications	0-1-3-2
ENG-CEERI-3-1533	Real-time Autonomous Systems	2-0-0-2
ENG-CEERI-3-1553	Lab: Real-time Autonomous Systems	0-1-3-2
ENG-CEERI-3-1534	Smart Grid and Electrical Mobility Systems	2-0-0-2
ENG-CEERI-3-1554	Lab: Smart Grid and Electrical Mobility Systems	0-1-3-2
ENG-CEERI-3-1535	Micro-sensors and Actuators: Design and Fabrication	2-0-0-2
ENG-CEERI-3-1555	Lab: Micro-sensors and Actuators: Design and Fabrication	0-1-3-2
ENG-CEERI-3-1536	Micro- and Nano-Technologies and Applications	2-0-0-2
ENG-CEERI-3-1556	Lab: Micro- and Nano-Technologies and Applications	0-1-3-2

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ENG-CEERI-3-1537	RF-MEMS and Applications	2-0-0-2
ENG-CEERI-3-1557	Lab: RF-MEMS and Applications	0-1-3-2
ENG-CEERI-3-1538	Advanced Packaging Technologies	2-0-0-2
ENG-CEERI-3-1558	Lab: Advanced Packaging Technologies	0-1-3-2
ENG-CEERI-3-1539	Computational Electromagnetics	2-0-0-2
ENG-CEERI-3-1559	Lab: Computational Electromagnetics	0-1-3-2
ENG-CEERI-3-1540	High-Power Microwave Devices and Fabrication	2-0-0-2
ENG-CEERI-3-1560	Lab: High-Power Microwave Devices and Fabrication	0-1-3-2
ENG-CEERI-3-1541	Vacuum Micro-electronics and Terahertz Devices	2-0-0-2
ENG-CEERI-3-1561	Lab: Vacuum Micro-electronics and Terahertz Devices	0-1-3-2
ENG-CEERI-3-1542	Antenna Engineering	2-0-0-2
ENG-CEERI-3-1562	Lab: Antenna Engineering	0-1-3-2

Mandatory Courses for PhD (Credits: 10)

Subject Code	Subject	L-T-P-C
ENG-CEERI-4-1502	Research Methodology #	1-1-0-2
ENG-CEERI-4-0001	Project Proposal	0-0-4-2
ENG-CEERI-4-0002	Review Article #	0-0-4-2
ENG-CEERI-4-0003	Societal Program	0-0-8-4

To be completed before the Comprehensive Examination.