

Indian Institute of Technology Palakkad

Slot System - Aug-Dec 2023

	08:00-08:50	09:00-09:50	10:00-10:50	11:00-11:50	12:05-12:55	13:00-13:50	14:00-15:15	15:30-16:45	17:10-18:00		
Mon	M1	A	B	C	H	Lunch Break	I	J	E1		
			PM1				PA1				
Wed	M3	A	B	C	H		Q	R	EML from 16:00		
			PM3				PA3				
Fri	M5	A	B	C	H		I	J	E5		
			PM5				PA5				

	08:00-08:50	09:00-10:15	10:30-11:45	12:00-12:50	13:00-13:50	14:00-15:15	15:30-16:45	17:10 to 18:00
Tue	M2	F	G	D	Lunch Break	K	L	E2
		PM2					PA2	
Thu	M4	F	G	D		K	L	E4
		PM4					PA4	

Slot Overview

Note - Numbers in slot names refer to the day of the week i.e., 1=Monday, 2=Tuesday, etc.
Example: in slot PA5, 5 stands for Friday. Similarly, in M3, 3 stands for Wednesday.

A, B, C and H - 3 credit slots (3*50 mins each)

F, G, I, J, K, and L - 3 credit slots (2*75 mins each)

D is a 2 credit slot (2*50 mins)

M1-M5, E1-E2, E4-E5, Q, and R are 1 credit slots (50 mins each)

PM1, PM3 and PM5 are morning lab slots (10:00 hrs to 12:45 hrs)

PM2 and PM4 are morning lab slots (9:00 hrs to 11:45 hrs)

PA1, PA2, PA4, PA5 are afternoon lab slots of 2hr 45min (14:00 hrs to 16:45 hrs)

PA3 is an afternoon lab slot of 1hr 50 min (14:00 hrs to 13:50 hrs)

Indian Institute of Technology Palakkad

Jan – May 2024

B. Tech. Semester II Institute Core Courses

Code	Course Name	Credits		Slot	Room/Batches
CY1040	Basic Chemistry for Engineers	2-1-0-3	Supratik (Coordinator), Dinesh and Rositha	A	C06-1 (B1-B4)
					C06-2 (B5-B8)
					C06-3 (B9-B12)
MA1021	Multivariable Calculus	3-1-0-4	Rohith V (coordinator) Jaikrishnan Lakshmi	C + Q	C06-1 (B1-B4)
					C06-2 (B5-B8)
					C06-3 (B9-B12)
CE1020	Engineering Mechanics	3-1-0-4	Arun C O (coordinator) Sanjukta Chakraborty Sovan Lal Das	B + R	C06-1 (B1-B4)
					C06-2 (B5-B8)
					C06-3 (B9-B12)
ID1110	Introduction to Programming	2-0-3-4	Anish (Theory)	F(9-9.50) (exam slot D)	A01-Aud
			Vivek (lab)	Tue (10-12.45) (PM2 for reg.)	A01 Comp lab1 (100) (B1-B6)
			Sovan Lal Das (lab)	Thu(10-12.45) (PM4 for reg.)	A01 Comp lab1 (100) (B7-B12)
HS1010	Technology and Society	2-0-0-2	Rahul Choragudi	L(Tuesday) H(Fri),	N-203 (B1-B6)
				H(Mon), L(Thursday)	N-203 (B7-B12)
EE1110	Electrical Workshop	0-0-3-2	Swaroop Sahoo Sabaraimalai M	PA1	B7-B9 (C06 Elec. Lab)
				PA2	B10-B12 (C06 Elec. Lab)
				PA4	B1-B3 (C06 Elec. Lab)
				PA5	B4-B6 (C06 Elec. Lab)
PH1130	Physics Lab	0-0-3-2	Amit Kumar Pal Uma Divakaran	PA2	B7-B9 (A01- Phy Lab)
				PA5	B10-B12 (A01- Phy Lab)
CY1130	Chemistry Lab	0-0-3-2	Yuvaraj (Coordinator) Rositha K	PA1	B1-B3 (A01 - CY Lab)
				PA4	B4-B6 (A01- CY Lab)

Indian Institute of Technology Palakkad

Jan – May 2024

B. Tech. HSE Courses, Semester II, IV

Code	Course Name	Credits	UG OE?	Prereq	Faculty	Slot	Room
HS2031	Principles of Economics (40)	3-0-0-3	Yes	No	Amrita Roy	H	A01-202
HS2302	Introduction to Language and Society(40)	3-0-0-3	Yes	No	Reenu Punnoose	H	A01-212
HSxxxx	Mental Health and Law (tentative title , course yet to be approved) (40)		Yes	No	Sudarshan R Kottai	H	A01-213
HS2304	Culture and Gender Performativity(40)	3-0-0-3	Yes	No	G Sujatha	H	A01-214

Indian Institute of Technology Palakkad

Jan – May 2024

B. Tech. SME Courses, Semester II and IV

Code	Course Name	Credits	UG OE?	Prereq	Faculty	Slot	Room
MA2041	Probability and Statistics	3-0-0-3	Yes		Arpan Kabiraj	F	A01-002
MA2032	Numerical Analysis	3-0-0-3	Yes		Gopikrishnan C R	F	A01-213
PH4602	Introduction to Special Relativity	3-0-0-3	Yes		Manoj Gopalakrishnan	G	A01-001
PH3601	Quantum Mechanics for Engineers	3-0-0-3	Yes	Yes	Amit Kumar Pal Uma Divakaran	G	A01-214
CY3601	Electrochemistry and Corrosions	3-0-0-3	Yes		Padmesh A	G	A01-202
CY4001	Industrial Chemistry	3-0-0-3	Yes	No	Umadevi	F	A01-202

Indian Institute of Technology Palakkad

Jan – May 2024

B. Tech. General Category Elective (GCE)

Code	Course Name	Credits	UG OE?	Prereq	Faculty/Coordinator	Slot	Room
PH3601	Quantum Mechanics for Engineers	3-0-0-3	Yes		Amit Kumar Pal Uma Divakaran	G	A01-214
PH4602	Introduction to Special Relativity	3-0-0-3	Yes		Manoj Gopalakrishnan	G	A01-001
HS4605	Foundation of Linguistics (40)	3-0-0-3	Yes		Reenu Punnoose	G	A01-213
HS5009	Mental Health and Society in the Global South (40)	3-0-0-3	Yes		Sudarshan R. Kottai	G	A01-002
HS	Contemporary Issues in Economic Development (30)	3-0-0-3	Yes		Amrita Roy	G	A01-120
HS4607M	German I (NPTEL)		Yes		Reenu Punnoose (coordinator)	NA	NA
HS3605	Introduction to Modern Indian Political Thought (NPTEL)		Yes		G. Sujatha (coordinator)	NA	NA
ME3522	Introduction to Finite Element Methods	3-0-0-3	Yes	Yes	Nelson Muthu (will Join in Dec in ME)	G	A01-118
CY3601	Electrochemistry and Corrosions	3-0-0-3	Yes		Padmesh A	G	A01-202
ES 5601	Sustainability Analysis and Design	2-0-2-3	Yes		Sunitha K Nayar	G	A01-018
BS5001	Fundamentals of Nanobiotechnology	3-0-0-3	Yes		Abdul Rasheed P	G	A01-103
ES5XXX	Photosynthesis	3-0-0-3	Yes		Deepak Jaiswal	G	A01-212
EE5XXX	Computer Graphics (40)	2-0-2-3	No		Vijay Muralidharan	G	A01-119
ME5632	Computational Methods for Inverse Problems	3-0-0-3	Yes		Arijit Hazra	G	A01-101

GN1005	GN1005: How to prepare for internship and job search?	1-0-0-1			Vinod Aravindakshan	E4	A01-002
CY4001	Industrial Chemistry	3-0-0-3	Yes	No	Umadevi	F	A01-202
HS3627	Engineering Economics (40)*	2-1-0-3	No		Senthilkumar V	F	A01-212

Indian Institute of Technology Palakkad
Jan – May 2024
B. Tech. Civil Engineering Core Courses, Semester II and IV

Code	Course Name	Credits	UG OE?	Prereq	Faculty	Slot	Room
CE2020	Structural Analysis	2-1-2-4	Yes	Yes	Madhu Karthik M	A, PA1	A01-213 N Civil Lab
CE2060	Soil Mechanics	3-0-2-4	Yes	Yes	Sudheesh T. K.	B, PA3	A01-213 N Civil Lab
CE2040	Hydraulic Engineering	3-0-2-4	Yes	No	Athira P.	C, PA5	A01-213 N Civil Lab

Indian Institute of Technology Palakkad
Jan – May 2024
B. Tech. Civil Engineering Core Courses, Semester VI

Code	Course Name	Credits	UG OE?	Prereq	Faculty	Slot	Room
CE3020	Traffic Engineering	3-0-2-4	Yes	No	B. K. Bhavathrathan	A, PA2	A01-018
CE3040	Basic Structural Steel Design	3-1-0-4	Yes		Anil Kumar	C, M2	A01-018
CE3060	Estimation & Construction Management	3-1-0-4	No		Senthilkumar	B, M4	A01-018
CE3080	Hydraulic and Environmental Engineering Laboratory	0-0-3-2	No	Yes	Subhasis Mitra Praveena Gangadharan	PA4	N Civil Lab
CE3100	Internship		No		Gokulnath C		

B. Tech. Civil Engineering Elective Courses, Semester VI

XXXXX	GCE	See B.Tech. GCE Slot Allocation
	PME	See Department PME/ERC Course Page
	PME*	

Indian Institute of Technology Palakkad
Jan – May 2024
B. Tech. Civil Engineering Core Courses, Semester VIII

Code	Course Name	Credits	UG OE?	Prereq	Faculty	Slot	Room No
CE4120	Project II	7	NA			-	-

B. Tech. Civil Engineering Elective Courses, Semester VIII

	PME	See Department PME/ERC Course Page
	PME*	

Indian Institute of Technology Palakkad

Jan – May 2024

Civil Engineering PME & ERC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
CE5510	Advanced Concrete Technology	3-0-0-3		Yes	Athira Gopinath	J	A01-018	S6 & S8/MS/PHD
CE5011	Finite Element Applications	3-0-0-3	Yes	Yes	Gokulnath C	D, M3	A01-120	S6 & S8/MS/PHD
CE5002	Advanced Mechanics of Structures	3-0-0-3	Yes	Yes	Gokulnath C	I	A01-018	S6 & S8/MS/PHD
CE5003	GIS and Remote Sensing	1-0-3-3	Yes	No	Sarmistha Singh	D, PA5	A01-213 N Comp lab CC lab (48)	S6/S8 /MS/Ph.D.
CE5614	Pavement Analysis & Design	3-0-0-3	No	Yes	Veena Venudharan	H	A01-120	S8/MS/PhD
CE5514	Surface Water Hydrology	3-0-0-3	No	Yes	Subhasis Mitra	J	A01-213	S8/MS/PhD
CE5619	Pavement Management Systems	3-0-0-3	No	Yes	Veena Venudharan	D, M3	A01-018	S8/MS/PhD
CE5626	Underground Structures	3-0-0-3	No	Yes	Ankesh Kumar	I	A01-120	S6/S8/Ph.D./MS
CE5518	Advanced Reinforced Concrete: Analysis and Design	4-0-0-4	No	Yes	Madhu Karthik M	F	A01-120	S6/S8/M.S./Ph.D.
CE5621	Physico- Chemical Water Treatment Processes	3-0-0-3	No	Yes	Praveena G	F	A01-018	M.S./Ph.D.
CE5621	Biological Process Design for Wastewater Treatment	3-0-0-3	No	Yes	Praveena G	H	A01-018	M.S./Ph.D.
CE 5604	Geosynthetics and Reinforced Soil Structures	3-0-0-3	No	Yes	Divya P. V.	J	A01-120	S6/S8/MS/PhD
CE5006	Foundation Engineering	3-1-0-4	No	Yes	Sudheesh T. K.	K,E1	A01-120	S8/MS/PhD
CE5002	Applied soil mechanics	3-1-0-4	No	Yes	Rakesh J. Pillai	B,E4	A01-120	S8/MS/PhD
CE5615	Finite Element Methods in Geotechnical Engineering	3-0-0-3	No	Yes	Gokulnath C Rakesh J Pillai	D, M3	A01-120	MS/PhD

Indian Institute of Technology Palakkad

Jan – May 2024

B. Tech. Computer Science Engineering Core Courses, Semester II and IV

Code	Course Name	Credits	UG OE?	Prereq	Faculty	Slot	Room
CS2030	Data Structures and Algorithms	3-0-0-3	Yes*	Yes	Krithika Ramaswamy	B	A01-002
CS2130	Data Structures and Algorithms Lab	0-0-3-2	No	Yes	Deepak Rajendraprasad, Srimanta Bhattacharya	PA4	A01-Comp Lab1 (100 seater lab)
CS3060	Computer Architecture	3-0-0-3	Yes**	Yes	Sandeep Chandran	G	A01-Aud
CS3160	Computer Architecture Lab	0-0-3-2	Yes**	Yes	Sandeep Chandran	PA2	A01-Comp Lab1 (100 seater lab)
DS2020	Introduction to Artificial Intelligence	3-0-2-4	No	Yes	C K Narayanan	C+ PA3	A01-002 A01-Comp Lab1 (100 seater lab)

* Max 10 students outside CSE

** Max 5 students outside CSE

Indian Institute of Technology Palakkad

Jan – May 2024

B. Tech. Computer Science Engineering Core Courses, Semester VI

Code	Course Name	Credits	UG OE?	Prereq	Faculty	Slot	Room
CS3020	Database Management Systems	3-0-0-3	No		Koninika Pal	A	A01-002
CS3120	Database Management Systems Lab	0-0-3-2	No		Sahely Bhadra, Koninika Pal	PA1	A01-Comp Lab1 (100 seater lab)
CS3040	Compiler Design	3-0-0-3	No		Unnikrishnan Cheramangalath	D+E5	A01-102
CS3140	Compiler Design Lab	0-0-3-2	No		Unnikrishnan Cheramangalath	PA5	A01-Comp Lab1 (100 seater lab)
CS3100	Internship	CWC	No		Vivek Chaturvedi	-	-
CS2180*	Artificial Intelligence Lab	0-0-3-2	No		C K Narayanan	C+PA3	Same as DS2020
CS2060*	Computer Organisation	3-0-0-3	No		Sandeep Chandran	G	Same as CS3060
CS2160*	Computer Organisation Lab	0-0-3-2	No		Sandeep Chandran	PA2	Same as CS3160

*Course in 2017 curriculum, Contact course for students with backlog

B. Tech. Computer Science Engineering Elective Courses, Semester VI

XXXXX	GCE	See B.Tech. GCE Slot Allocation
	PME	See Department PME/ERC Course Page
	PME*	

Indian Institute of Technology Palakkad

Jan – May 2024

B. Tech. Computer Science Engineering Core Courses, Semester VIII

Code	Course Name	Credits	UG OE?	Prereq	Faculty	Slot	Room No
CS4120	Project II				Deepak Rajendraprasad, Srimanta Bhattacharya	-	

B. Tech. Computer Science Engineering Elective Courses, Semester VIII

XXXXX	GCE	See B.Tech. GCE Slot Allocation					
	PME*	See Department PME/ERC Course Page					

Indian Institute of Technology Palakkad

Jan – May 2024

Computer Science Engineering PME & ERC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
CS5016	Computational Methods and Applications	2-0-3-4	No		Albert Sunny	PA4+E4	N Comp. Lab CS Lab (70)	BTech CSE S4, S6, S8, MCAm, MSoCD, MS, PhD
CS5014	Foundations of Data Science and Machine Learning	3-0-0-3	No		Deepak Rajendraprasad	F	A01-102	BTech CSE S6, S8, MCAm, MDS, MS, PhD
CS5616	Computational Complexity	3-0-0-3	No		Dinesh Krishnamoorthy	B	A01-102	BTech CSE S6, S8, MCAm, MS, PhD
CS5003	Parameterized Algorithms	3-0-0-3	No		Krithika Ramaswamy	H	A01-102	BTech CSE S6, S8, MCAm, MS, PhD
CS5633	Model Checking	3-0-2-4	Yes		Jasine Babu	C (Theory) + E2 (Lab)	A01-102 A01-Comp Lab1(100 seater lab)	BTech CSE S4, S6, S8, MCAm, MSoCD, MS, PhD
CS5639	Topics in Networks	1-0-3-3	No		Anish Hirwe	PA2+E2	A01-Comp lab 2 (35) A01-102	BTech CSE S8, MSoCD, MS, PhD
CS5510	Compiler Optimizations and Program Analysis	3-0-0-3	No		Unnikrishnan Cheramangalath	L	A01-102	BTech CSE S8, MSoCD, MS, PhD
CS5638	Quantum Computing	3-0-0-3	No		Dinesh Krishnamoorthy, Srimanta Bhattacharya	E (for registration) (contact instructors for further details on lecture timings)	A01-212	BTech CSE S6, S8, MCAm, MS, PhD
CS5010	Graph Theory and Combinatorics	3-0-0-3	Yes	Yes	Srimanta Bhattacharya	I	A01-102	BTech CSE S4, MS, PhD
CS5002	Functional Programming	3-0-0-3	Yes		Piyush Kurur	B	A01-212	BTech CSE S4, S6, S8, MCAm, MSoCD, MS, PhD

DS5102	Big Data Lab	1-0-3-3	No		Nikhil Krishnan	PM3	A01-Comp Lab 1 (100 seater)	BTech CSE S6, S8
DS3040	Deep Learning	3-0-3-5	No		Mrinal Das	G and PM5 (tentative)	A01-102 A01-Comp Lab 1 (100 seater lab)	BTech CSE S6, S8
DS6004	Responsbile AI	3-0-0-3	No		Sahely Bhadra	L	A01-001	BTech CSE S6, S8
EE5605	Error-Correcting Codes for Communications and Distributed Systems	3-0-0-3	No		Nikhil Krishnan	F	A01-001	BTech CSE S6, S8
CS5642M	Introduction To Machine Learning	3-0-0-3	-	-	NPTEL	-	-	BTech CSE S6, S8, MCaM (OE), MSoCD
CS5643M	Reinforcement Learning	3-0-0-3	-	-	NPTEL	-	-	BTech CSE S6, S8, MCaM (OE), MSoCD
CS5637M	Secure Computation: Part I	3-0-0-3	-	-	NPTEL	-	-	BTech CSE S6, S8
CS4608M	Cloud Computing	3-0-0-3	-	-	NPTEL	-	-	BTech CSE S6, S8
CS5XXX	GPU Architectures and Programming	3-0-0-3	-	-	NPTEL	-	-	BTech CSE S6, S8, MSoCD

Indian Institute of Technology Palakkad
Jan – May 2024
B. Tech. Data Science Core Courses, Semester II

Code	Course Name	Credits	UG OE?	Prereq	Faculty	Slot	Room
DS2020	Introduction to Artificial Intelligence	3-0-2-4	No	Yes	Narayanan	C and PA3	A01-002 A01-Comp Lab1 (100 seater lab)
DS2040	Computer Systems for Data Science	3-0-3-5	No	Yes	Satyajit Das	B and PA5	A01-001 A01- Comp Lab2 (35)
DS3020	Database Systems	3-0-3-5	No	Yes	Koninika, Sahely	A and PA1	A01-002 A01-Comp Lab1 (100 seater lab)

Indian Institute of Technology Palakkad

Jan – May 2024

B. Tech. Electrical Engineering Core Courses, Semester II and IV

Code	Course Name	Credits	UG OE?	Prereq	Faculty	Slot	Room
EE3060A	Control Engineering	3-0-2-4	No	Yes	Sneha Gajbhiye	B PA2 (alternate weeks)	A01-103 N Electron. Lab
EE2040A	Analog Circuits Theory and Lab	3-0-2-4	No	Yes	Arvind	A PA2 (alternate weeks)	A01-103 N Electron. Lab
EE2080	Microprocessor Systems Design and Interfacing	3-0-2-4	No	Yes	Vijay Muralidharan	D+ PA4	A01-103 N Electron. Lab
EE3020A	Digital Signal Processing	3-0-0-3	Yes	Yes	M Sabarimalai Manikandan	C	A01-Aud
EE2040	Analog Circuits Theory (contact mode)	3-1-0-4	No	Yes	Arvind	A	A01-103
EE3150	Analog Circuits Lab (contact mode)	0-0-3-2	No	Yes	Arvind	PA2 (alternate weeks)	N Electron. Lab

*Contact mode courses for students from senior batches who have not completed these course requirements

Indian Institute of Technology Palakkad

Jan – May 2024

B. Tech. Electrical Engineering Core Courses, Semester VI

Code	Course Name	Credits	UG OE ?	Prereq	Faculty	Slot	Room
EE3020	Digital Signal Processing	3-1-0-4	No	Yes	M. Sabarimalai Manikandan	C+ M5	A01-Aud
EE3040	Power Systems	3-1-0-4	No	Yes	Manas Kumar Jena	A+ M1	A01-119
EE3060	Control Engineering	3-1-0-4	No	Yes	Shaikshavali Chitraganti	B+ M3	A01-119
EE3120	Communication Systems and Microwave Laboratory	0-0-3-2	No	Yes	Jobin Francis Sukomal Dey	PA1	N Electron. Lab
EE3140	Measurements and Instrumentation Laboratory	0-0-3-2	No	Yes	Sreenath Vijayakumar	PA5	N Electron. Lab

B. Tech. Electrical Engineering Elective Courses, Semester VI

XXXXX	GCE	See B.Tech. GCE Slot Allocation
	PME	See Department PME/ERC Course Page
	PME*	

Indian Institute of Technology Palakkad

Jan – May 2024

B. Tech. Electrical Engineering Core Courses, Semester VIII

Code	Course Name	Credits	UG OE ?	Prereq	Faculty	Slot	Room No
XXXXX	General Category Elective	3-0-0-3	-		See B.Tech. Common Courses Slot Allocation		
EE4120	Project II	0-0-11-7		Yes	Shaikshavali Chitraganti		

B. Tech. Electrical Engineering Elective Courses, Semester VIII

XXXXX	GCE	See B.Tech. GCE Slot Allocation					
	PME*	See Department PME/ERC Course Page					

Indian Institute of Technology Palakkad
Jan – May 2024
Electrical Engineering PME & ERC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
EE5518	Nanoelectronic Devices	3-0-0-3	No	Yes	Revathy Padmanabhan	H	A01-103	BTech(EE) S2/S4/S6/S8, MTech(SoCD) S2/S4, MS, PhD, as long as they meet the prerequisite
EE5606	Micro and Nanoscale Devices Laboratory	0-0-3-2	No	Yes	Revathy Padmanabhan	E* (for registration) (contact instructor for further details on elective lab timings)	Nila CIF-CMFF	BTech(EE) S2/S4/S6/S8, MTech(SoCD) S2/S4, MS, PhD, as long as they meet the prerequisite
EE5516	VLSI Architectures for signal processing and machine learning	2-0-2-3	No	Yes	Subrahmanyam Mula	D + PA3	A01-119 + N Electroni cs Lab	BTech(EE) S6/S8, MTech(SoCD) S2/S4, MS, PhD, as long as they meet the prerequisite
EE5519	Wireless Communication	3-0-0-3	No	Yes	Jobin Francis	K	A01-103	BTech EE S6/S8 and MS/Ph.D.
EE5525	Sensors and Signal Conditioning Circuits	3-0-0-3	No	Yes	Sreenath Vijayakumar	K	A01-119	BTech EE S6/S8, MTech(PEPS and SoCD) and MS/Ph.D.
EE5003	RF and Microwave Passive Circuits	3-0-0-3	Yes	Yes	Sukomal Dey	L	A01-119	BTech(EE) S4/S6/S8, MTech (SoCD) S2/S4, MS, PhD

EE5605	Error-Correcting Codes for Communications and Distributed Systems	3-0-0-3	No	Yes	Nikhil Krishnan M	F	A01-001	S6/S8 BTech (EE/CS/DS), MTech (DS/CAM), MS (EE/CS/DS), PhD (EE/CS/DS)
EE5514	Renewable Energy Systems	3-0-03	No	Yes	Naga Brahmendra	B	A01-214	S8 (UGEE), MS/PhD (EE)
EE5521	Optimal control	3-0-0-3	No	Yes	Shaikshavali Chitraganti	I	A01-214 or C06-1	MS/PhD

*EE5606 is an elective lab course. It is slotted in E for registration purposes.

Students may please contact the course instructor for further details about the lab timings

Indian Institute of Technology Palakkad
Jan – May 2024
B. Tech. Mechanical Engineering Core Courses, Semester II and IV

Code	Course Name	Credits	UG OE?	Prereq	Faculty	Slot	Room
ME2010	Fluid Mechanics Theory and Practice	3-0-2-4	Yes	No	Ganesh Natarajan Krishna S	B+ PA3	A01-202 D-03
ME2030A	Manufacturing Processes-I	3-0-0-3	Yes	Yes	Dinesh Setti	A	A01-202
ME2012	Mechanics of Solids: Theory and Practice	3-0-2-4	Yes	Yes	KVN Surendra	C+ PA1	A01-202 D-03

Indian Institute of Technology Palakkad
Jan – May 2024
B. Tech. Mechanical Engineering Core Courses, Semester VI

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room
ME3020	Applied Thermo-Fluids Engineering	4-0-0-4	Yes	Yes	Anand T N C	A+E2	A01-118
ME3040	Mechanical Vibrations	3-0-0-3		Yes	Anoop Akkoorath Mana	B	A01-118
ME3060	Machine Design Practice	3-0-0-3	Yes	Yes*	Santhakumar Mohan	C	A01-118
ME3080	Automation in Manufacturing	3-0-0-3		No	D Chakradhar	H	A01-118
ME3100	Internship	CWC		No	Vineed Narayanan	-	
ME3180	Mechanical Engineering Laboratory 2	0-0-3-2		No	Vineed Narayanan Pramod K	PA1	N Mech Lab

* Maximum 7 OE students, CoT required for prerequisite waiver

B. Tech. Mechanical Engineering Elective Courses, Semester VI

XXXXX	GCE	See B.Tech. GCE Slot Allocation
	PME*	See Department PME/ERC Course Page

Indian Institute of Technology Palakkad
Jan – May 2024
B. Tech. Mechanical Engineering Core Courses, Semester VIII

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No
ME4160	Project II	0-0-11-7		Yes	Krishna S (coordinator)	-	-

B. Tech. Mechanical Engineering Elective Courses, Semester VIII

	PME	See Department PME/ERC Course Page
	PME*	

Indian Institute of Technology Palakkad

Jan – May 2024

Mechanical Engineering PME & ERC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
ME5617	Wheeled Mobile Robots	3-0-0-3	Yes	No	Santhakumar Mohan	D+E1	A01-118	S6/S8/M.S/Ph.D
ME4502	Aerospace Propulsion	3-0-0-3	Yes	Yes	T Sundararajan	K	A01-118	S4/S6/S8
ME5610	Soft Computing	3-0-0-3	Yes	No	D Chakradhar Samarjeet Chanda	L	A01-118	S4/S6/S8/M.Tech. /M.S/Ph.D
ME5620	Advanced Heat Transfer	3-0-0-3	No	Yes	Samarjeet Chanda Pramod K	D+E1	A01-101	M.Tech./M.S./Ph. D.
ME5619	Combustion	3-0-0-3	No	No	Krishna S	I	A01-101	M.Tech./M.S./Ph. D.
ME5628	Lean Manufacturing	2-0-2-3	Yes	Yes	Girish Govande (ACMA) / D Chakradhar (coordinator)	F	A01-118	S6/S8/M.Tech (MME)/PhD
ME5626	Advanced Refrigeration and Air Conditioning	3-0-0-3	Yes	Yes	Vineed Narayanan Pramod K	L	A01-202	S6/S8/M.S/Ph.D
ME5618	Additive Manufacturing	3-0-03	Yes	Yes	Buchibabu Vicharapu	L	A01-101	S6/S8/M.S/M. Tech/Ph.D
ME5634	Fundamentals of micro-nano manufacturing	2-0-2-3	Yes	Yes	Afzaal Ahmed	K+ PA3	A01-101 N Mech Lab	S8/M.Tech./M.S. /Ph.D.

Indian Institute of Technology Palakkad
Jan – May 2024
MSc Chemistry Core Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
CY5002	Chemistry of Materials	3-0-0-3	No	Yes	Yugender Goud Kotagiri	F	N 303
CY5004	Molecular Dynamics and Basic Statistical Thermodynamics	3-0-0-3	No	No	Debarati Chatterjee	K	N 303
CY5006	Elucidation of Molecular Structure	3-0-0-3	No	Yes	Yuvaraj K	A	N 303
CY5008	Reaction Mechanisms	3-0-0-3	No	Yes	Mintu Porel	G	N 303
CY5102	Synthesis, Energetics and Dynamics Lab 2	0-0-2-2 (chk)	No	No	Supratik Sen Majumdar	PA5	A01-CY Lab
CY5104	Synthesis, Energetics and Dynamics Lab 3	0-0-2-2 (chk)	No	No	Sushabhan Sadhukhan	PM3	A01-CY Lab

MSc Chemistry Other Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
GN6001	Research Methodology and Professional Ethics	2-0-0-0	-	-		EML	

Indian Institute of Technology Palakkad

Jan – May 2024

MSc Chemistry Core Courses, Semester IV

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room
CY5120	Major Project		No	Yes	Abdul Rasheed	-	-

MSc Chemistry Elective Courses, Semester IV

	Elective II	See Elective Course Page
	Elective III	
	Elective IV	

Indian Institute of Technology Palakkad

Jan – May 2024

MSc Chemistry PSE/OE/SRC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
CY5611	Supramolecular Chemistry	3-0-0-3	No	No	Shanmugaraju Sankarasekaran	F	N306	
CY5610	Principles of Chemical Biology	3-0-0-3	No	No	Sushabhan Sadhukhan	K	N306	
CY5603	Chemistry of Mixing Separation and Analysis	3-0-0-3	No	Yes	Dinesh Jagadeesan	L	N306	
CY5503	Transition Metal Organometallics in Catalysis and Biology (NPTEL)				Mintu Porel			

Indian Institute of Technology Palakkad
Jan – May 2024
MSc Mathematics Core Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
MA5002	Multivariable Calculus	4-0-0-4	No	Yes	Sarath Sasi	H, E4	N 308
MA5004	Measure Theory	4-0-0-4	No	Yes	V Muruganandam	A, M3	N 308
MA5006	Fields and Modules	4-0-0-4	No	Yes	Parangama Sarkar	G, Q	N 308
MA5008	Topology	4-0-0-4	No	Yes	Jaikrishnan J (coordinator)	F, E2	N 308
MA5010	Complex Analysis	4-0-0-4	No	Yes	G P Balakumar	C,M1	N 308

Indian Institute of Technology Palakkad

Jan – May 2024

MSc Mathematics Core Courses, Semester IV

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room
MA5120	Project Level 2	6-0-0-6	No		Arpan Kabiraj	N/A	

MSc Mathematics Other Courses, Semester IV

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room
GN6001	Research methodology and professional ethics	2-0-0-0				EML	
	Elective IV **	See Elective Course Page					
	Elective V						
	Elective VI/Project Level 2						
	Elective VII/Project Level 2						

** A student is allowed to take a maximum of one course in the open elective (OE) category in place of PSE.

Indian Institute of Technology Palakkad

Jan – May 2024

MSc Mathematics PSE/OE/SRC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
MA6605	Operator Theory	3-0-0-3	No	Yes	C R Jayanarayanan	F	N305	
EE5517	Information Theory and Statistics	3-0-0-3	No	Yes	M Ashok Kumar	B	N308	
MA6010	Advanced Partial Differential Equations	3-0-0-3	No	Yes	Gopikrishnan C R	G	N305	
MA6008	Lie Groups and Lie Algebras	3-0-0-3	No	Yes	Jaikrishnan J (coordinator)	L	N308	
CS5016	Computational Methods and Applications	2-0-3-4	No		Albert Sunny	PA4+ E4	N Comp Lab CS Lab (70)	
CS5010	Graph Theory and Combinatorics	3-0-0-3	Yes	Yes	Srimanta Bhattacharya	I	A01-102	
CS5014	Foundations of Data Science and Machine Learning	3-0-0-3	No		Deepak Rajendraprasad	F	A01-102	
CS5616	Computational Complexity	3-0-0-3	No		Dinesh Krishnamoorthy	B	A01-102	
MA5xxx	Financial Derivatives & Risk Management	NPTEL						
MA5xxx	Fourier Analysis and its Applications	NPTEL						
MA5xxx	Numerical Analysis	NPTEL						

Indian Institute of Technology Palakkad
Jan – May 2024
MSc Physics Core Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
PH5008	Quantum Mechanics 2	3-0-0-3	No	Yes	Kusum Dhochak	C	N 301
PH5002	Atomic and Molecular Physics	3-0-0-3	No	Yes	Jayakumar Balakrishnan	A	N 301
PH5004	Electronics and Instrumentation	2-0-3-4	No		Swaroop Sahoo	D PM2	N 301 Nila E. Lab
PH5006	Statistical Mechanics	3-1-0-4	No		Bibhu Ranjan Sarangi	B	N 301
PH5102	Msc Physics Lab 2 Thermal Physics and Atomic Spectroscopy Lab	0-0-3-2	No		Jayakumar Balakrishnan Kusum Dhochak	PA4	A01-Phy Lab

MSc Physics Other Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
GN6001	Research Methodology and Professional Ethics	2-0-0-0	-	-		EML	
HSxxxx	Humanities Elective	3-0-0-3	See HSE/HSS Course Page				

Indian Institute of Technology Palakkad

Jan – May 2024

MSc Physics Core Courses, Semester IV

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room
PH5120	Project II	0-0-12-8	No	Yes	Soham Manni	-	-

MSc Physics Elective Courses, Semester IV

	Elective III (OE)	See Elective Course Page
	Elective IV (PSE)	

Indian Institute of Technology Palakkad

Jan – May 2024

MSc Physics PSE/OE/SRC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
PH5611	Softmatter Physics	3-0-0-3	No	Yes	Vishwas V	F	N301	
PH5618	Introduction to Computational Physics	2-0-2-3	Yes	No	Akshay Bhatnagar	D+ PA3	N306 N Comp. Lab CC Lab (48)	
PH5622	Introduction to Astrophysics	3-0-0-3	Yes*	No	Projwal Banerjee	G	N 301	
PH6003	Magnetism in Materials	3-0-0-3	No	Yes	Soham Manni	H	N 301	
PHxxxx	Many Body Physics : Techniques and Applications (pending approval)	3-0-0-3	No	Yes	Prithvi Narayan P	K	N301	

* Only as GCE for BTech S6 and S8

Indian Institute of Technology Palakkad

Jan – May 2024

Humanities & Social Sciences HRC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
HS	Contemporary Issues in Economic Development	3-0-0-3	Yes		Amrita Roy	G	A01-120	
HS6009	Gender Question in India	3-0-0-3	No		G. Sujatha	J	N305/ C06-2	
HS6xxx	Formal and Non-Formal School Education in India* (yet to be approved)	3-0-0-3	No		Rahul Choragudi	I	N305/ C06-2	
HS6xxx	The Ethnographic Film	3-0-0-3	No		Rahul Choragudi	K	N305/ C06-2	

Indian Institute of Technology Palakkad

Jan – May 2024

M.Tech. in Computing and Mathematics Core Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
CS5016	Computational Methods and Applications	2-0-3-4	No	Yes	Albert Sunny	PA4+E4	N Comp Lab CS Lab (70)
CS5010	Graph Theory and Combinatorics	3-0-0-3	Yes	Yes	Srimanta Bhattacharya	I	A01-102
CS5014	Foundations of Data Science and Machine Learning	3-0-0-3	No	Yes	Deepak Rajendraprasad	F	A01-102

M.Tech. in Computing and Mathematics Elective/Other Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
	PME	See Elective Course Page					
	OE						

Indian Institute of Technology Palakkad

Jan – May 2024

M.Tech. in Computing and Mathematics Core Courses, Semester IV

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room
CM5120	Project / Dissertation Phase 2	0-0-18-12			Albert Sunny	-	-

Indian Institute of Technology Palakkad

Jan – May 2024

M.Tech. in Computing and Mathematics PE/OE/ERC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No
CS5616	Computational Complexity	3-0-0-3	No	Yes	Dinesh Krishnamoorthy	B	A01-102
CS5003	Parameterized Algorithms	3-0-0-3	No	Yes	Krithika Ramaswamy	H	A01-102
CS5633	Model Checking	3-0-2-4	Yes	Yes	Jasine Babu	C (Theory) + E2 (Lab)	A01-102 A01-Comp Lab 1 (100 seater)
CS5638	Quantum Computing	3-0-0-3	No	Yes	Dinesh Krishnamoorthy, Srimanta Bhattacharya	E (for registration) (contact instructors for further details on lecture timings)	A01-212
CS5002	Functional Programming	3-0-0-3	Yes	Yes	Piyush Kurur	B	A01-212
CS5642M	Introduction To Machine Learning (OE)	3-0-0-3	-	-	NPTEL	-	-
CS5643M	Reinforcement Learning (OE)	3-0-0-3	-	-	NPTEL	-	-

Indian Institute of Technology Palakkad

Jan – May 2024

M. Tech. Data Science Core Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
DS3040	Deep Learning	3-0-3-5	Yes*	Yes	Mrinal Das	G and PM5 (tentative)	A01-102 A01-Comp Lab 1 (100 seater lab)
DS5102	Big Data Lab	1-0-3-3	Yes**	No	Nikhil Krishnan	PM3	A01-Comp Lab 1 (100 seater lab)

M. Tech. Data Science Elective/Other Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
	PME I	See Elective Course Page					
	PME II						
	PME III						

*10 students outside Data Science discipline

** Total cap is 30 (20 MDS students and 10 students from other branches UG/PG/PhD)

Indian Institute of Technology Palakkad

Jan – May 2024

M. Tech. Data Science Core Courses, Semester IV

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room
DS5120	Project (phase 2)	10			Mrinal Das		

M. Tech. Data Science Other Courses, Semester IV

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room

Indian Institute of Technology Palakkad

Jan – May 2024

M. Tech. Data Science PE/OE/ERC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
DS5608	Time Series Modeling and Analysis	3-0-0-3	No	Yes	Prof. Varahan (online) Sahely Bhadra (local Coordinator)	J (please chk with coordinator for timings)	A01-001	total cap is 40 (20 MDS students, and 20 students from other branches, S6/S8/PG and PhD)
DS6004	Responsbile AI		No	Yes	Sahely Bhadra	L	A01-001	total cap is 20 (open to all branches, S6/S8/PG and PhD)
DSXYZ	Business Analytics	3-0-0-3	No	Yes	Prof. Anand and Shovan from IIMK, local coordinator - CKN	I only Monday H, I, J	A01-001	total cap is 30 (20 MDS and 10 students open to all branches S8/PG/PhD)
EE5605	Error Correcting Codes	3-0-0-3			Nikhil Krishnan	F	A01-001	

Indian Institute of Technology Palakkad
Jan – May 2024
M. Tech- Geotechnical Engineering Core Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
CE5002	Applied soil mechanics	3-1-0-4	No		Rakesh J. Pillai	B,E4	A01-120
CE5006	Foundation Engineering	3-1-0-4	No		Sudheesh T. K.	K,E1	A01-120
CE5004	Experimental Geotechnics	0-0-3-2	No		Ankesh Kumar	PM4	N Civil lab

M.Tech. Geotechnical Engineering Other Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
GN6001	Research Methodology and Professional Ethics	2-0-0-0				EML	
CExxxx	Dept. Elective 1	See Elective Course Page					
CExxxx	Dept. Elective 2						
CExxxx	Dept. Elective 3						

Indian Institute of Technology Palakkad

Jan – May 2024

M. Tech in Geotechnical Engineering Core Courses, Semester IV

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room
CE5120	Project Stage 2 (Sem 4)	0-0-0-12			Ankesh Kumar		

Indian Institute of Technology Palakkad

Jan – May 2024

M. Tech in Geotechnical Engineering PE/OE/ERC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
CE5626	Underground Structures	3-0-0-3	No		Ankesh Kumar	I	A01-120	
CE 5604	Geosynthetics and Reinforced Soil Structures	3-0-0-3	No		Divya P. V.	J	A01-120	
CE5615	Finite ELement Methods in Geotechnical Engineering	3-0-0-3	No		Gokulnath C and Rakesh J Pillai	D, M3	A01-120	
CE5614	Pavement Analysis & Design	3-0-0-3	No		Veena Venudharan	H	A01-120	

Indian Institute of Technology Palakkad

Jan – May 2024

M.Tech. in Manufacturing and Materials Engineering Core Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
ME5004	Mechanical Behaviour of Materials	3-0-0-3	No	Yes	Kesavan D	A	A01-101
ME5002	Computer Aided Metrology	3-0-0-3	No	Yes	S Kanmani Subbu	B	A01-101
ME5101	Modeling and Simulation Laboratory	1-0-2-3		Yes	S Kanmani Subbu	M2+PA1	A01-101 N Comp Lab CC Lab (48)

M.Tech. in Manufacturing and Materials Engineering Other Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
GN6001	Research Methodology and Professional Ethics	2-0-0-0		No	Anand TNC	EML ?	
	PME 1	See Elective Course Page					
	PME 2						
	PME 3						

Indian Institute of Technology Palakkad

Jan – May 2024

M.Tech. in Manufacturing and Materials Engineering Core Courses, Semester IV

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room
ME5120	Project II	0-0-0-12	No	Yes	Dinesh	-	

M.Tech. in Manufacturing and Materials Engineering Elective Courses, Semester IV

Indian Institute of Technology Palakkad

Jan – May 2024

M.Tech. in Manufacturing and Materials Engineering PE/OE/ERC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
ME5620	Advanced Heat Transfer	3-0-0-3		Yes	Samarjeet Chanda	D+E1	A01-101	M.Tech./M.S./Ph.D.
ME5610	Soft Computing	3-0-0-3	Yes	No	D Chakradhar Samarjeet Chanda	L	A01-118	S4/S6/S8/M.Tech./M.S/Ph.D
ME5618	Additive Manufacturing	3-0-0-3	Yes	Yes	Buchibabu	L	A01-101	S6/S8/M.S/M.Tech/Ph.D
ME5628	Lean Manufacturing	2-0-2-3	Yes	Yes	Girish Govande (ACMA) / Chakradhar	F	A01-118	S6/S8/M.Tech (MME)/PhD
ME5634	Fundamentals of micro-nano manufacturing	2-0-2-3	Yes	Yes	Afzaal Ahmed	K+PA3	A01-101 N Mech Lab	s8/M.Tech./M.S./Ph.D.
ME5632	Computational Methods for Inverse Problems	3-0-0-0	Yes	Yes	Arijit Hazra	G (GCE)	A01-101	S6/S8/M.S/Ph.D

Indian Institute of Technology Palakkad

Jan – May 2024

M.Tech. in Power Electronics and Power Systems Core Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
EE5015	Power Converters - modulation, control and applications	3-0-0-3	No	Yes	Anirudh Guha	A	A01-214
EE5103	Power converters design lab	0-0-3-2	No	Yes	Naga Brahmendra	PA5	N Machines Lab
EE5105	Power Electronics simulation lab	0-0-3-2	No	Yes	Anirudh Guha	PM2	N Comp Lab CC Lab (48)
EE5101	Power systems simulation lab	0-0-3-2	No	Yes	Manas Kumar Jena	PM4	N Comp Lab CC Lab (48)

M.Tech. in Power Electronics and Power Systems Elective/Other Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
	Program Elective 2	See Elective Course Page					
	Program Elective 3						
	Open Elective						

Indian Institute of Technology Palakkad

Jan – May 2024

M.Tech. in Power Electronics and Power Systems Core Courses, Semester IV

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room
PE5120	Professional Major Project Phase 2	0-0-0-12	No		Naga Brahmendra		

Indian Institute of Technology Palakkad

Jan – May 2024

M.Tech. in Power Electronics and Power Systems PE/OE/ERC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
EE5523	Electric Drives	3-0-0-3	No	Yes	Arun Rahul S	C	A01-214	Mtech PEPS/ MS/PhD
EE5525	Sensors and Signal Conditioning Circuits	3-0-0-3	No	Yes	Sreenath Vijayakumar	K	A01-119	Mtech PEPS/Mtech SoCD/UGEES6/UG EES8/MS/PhD
EE5514	Renewable Energy Systems	3-0-0-3	No	Yes	Naga Brahmendra	B	A01-214	Mtech PEPS/ UGEES8 / MS/PhD

Indian Institute of Technology Palakkad
Jan – May 2024
M.Tech. in System-on-Chip Design Core Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
CS5102	SoC Design Lab	1-0-3-3	No		Vivek Chaturvedi	PM4 + M4	N Electron. Lab
SD5190	Mini project	0-0-5-3			Subrahmanyam Mula (Coordinator)		

M.Tech. in System-on-Chip Design Elective/Other Courses, Semester II

Code	Course Name	Credits	UG OE/ GCE	Prereq	Faculty	Slot	Room
	Professional Elective 1	See Elective Course Page					
	Professional Elective 2						
	Professional Elective 3						
	Professional Elective 4						

Indian Institute of Technology Palakkad

Jan – May 2024

M.Tech. in System-on-Chip Design Core Courses, Semester IV

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room
SD5120	M.Tech Thesis/Project Phase 2	0-0-18-12					

Indian Institute of Technology Palakkad
Jan – May 2024
M.Tech. in System-on-Chip Design PE/OE/ERC Courses

Code	Course Name	Credits	UG OE/ GCE?	Prereq	Faculty	Slot	Room No	Availability
EE5518	Nanoelectronic Devices	3-0-0-3	No	Yes	Revathy Padmanabhan	H	A01-103	BTech(EE) S2/S4/S6/S8, MTech (SoCD) S2/S4, MS, PhD, as long as they meet the prerequisite
EE5606	Micro and Nanoscale Devices Laboratory	0-0-3-2	No	Yes	Revathy Padmanabhan	E* (for registration) (contact instructor for further details on lab timings)	Nila CIF-CMFF	BTech(EE) S2/S4/S6/S8, MTech (SoCD) S2/S4, MS, PhD, as long as they meet the prerequisite
EE5516	VLSI Architectures for signal processing and machine learning	2-0-2-3	No	Yes	Subrahmanyam Mula	D + PA3	A01-119 N Electron. Lab	BTech(EE) S6/S8, MTech(SoCD) S2/S4, MS, PhD, as long as they meet the prerequisite
EE5525	Sensors and Signal Conditioning Circuits	3-0-0-3	No	Yes	Sreenath Vijayakumar	K	A01-119	BTech EE S6/S8 and MS/Ph.D.
EE5003	RF and Microwave Passive Circuits	3-0-0-3	Yes	Yes	Sukomal Dey	L	A01-119	BTech(EE) S4/S6/S8, MTech(SoCD) S2/S4, MS, PhD
CS5639	Topics in Networks	1-0-3-3	No	Yes	Anish Hirwe	PA2+E2	A01-Comp lab 2 (35) A01-102	BTech CSE S8, MSoCD, MS, PhD
CS5510	Compiler Optimizations and Program Analysis	3-0-0-3	No	Yes	Unnikrishnan Cheramangalath	L	A01-102	BTech CSE S8, MSoCD, MS, PhD
CS5002	Functional Programming	3-0-0-3	Yes	Yes	Piyush Kurur	B	A01-212	BTech CSE S4, S6, S8, MCaM, MSoCD, MS, PhD
CS5016	Computational Methods and Applications	2-0-3-4	Yes	Yes	Albert Sunny	PA4+E4	N Comp Lab CS Lab (70)	BTech CSE S4, S6, S8, MCaM, MSoCD, MS, PhD

CS5633	Model Checking	3-0-2-4	Yes	Yes	Jasine Babu	C (Theory) + E2 (Lab)	A01-102 A01-Comp Lab1(100)	BTech CSE S4, S6, S8, MCaM, MSoCD, MS, PhD
CS5642M	Introduction To Machine Lea	3-0-0-3	-	-	NPTEL	-	-	
CS5643M	Reinforcement Learning	3-0-0-3	-	-	NPTEL	-	-	

*EE5606 is an elective lab course. It is slotted in E for registration purposes.

Students may please contact the course instructor for further details about the lab timings