

Indian Institute of Technology Palakkad

Slot System - Jan-May 2024

| | 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 | | Lunch Break | Q <small>14:00-14:50</small> | R <small>15:00-15:50</small> | EML from 16:00 |
| | | | PM3 | | | | | PA3 14:00-15:50 | | |
| Fri | M5 | A | B | C | H | | | Lunch Break | I | J |
| | | | 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 | | Lunch Break | 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 15:50 hrs)

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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) |

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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 |

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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 |

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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 |

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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 | PA2, PA3 | 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* | | | | | | |

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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 |

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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

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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 | | | | | |

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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 | Responsible 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) |

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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

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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* | |

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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

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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 | H | 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

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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 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 | Projjwal Banerjee | G | N 301 | |
| PH6003 | Magnetism in Materials | 3-0-0-3 | No | Yes | Soham Manni | H | N 301 | |
| PHxxxx | Many Body Physics : Technqiues 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

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)

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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 |
|------|-------------|---------|---------------|--------|---------|------|------|
| | | | | | | | |

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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 coordin ator 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
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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 | H | 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

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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 | | |

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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 |

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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 | | | | | | |

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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