**Jan 2022 to May 2022**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9:00-9:55 | 10:00-10:55 | 11:00-11:55 | 12:00-12:55 | 13:00-14:30 | 14:30-15:55 | 16:00-17:25 | 17:30-18:55 | 19:00-20:30 |
| Monday | A | B | C | D | Lunch | P | Q | W | X |
| FN1 | | |  |  | AN1 | |  |  |
| Tuesday | D | E | F | G |  | R | S | Y | Z |
| FN2 | | |  |  | AN2 | |  |  |
| Wednesday | B | C | A | G |  | F | Challenge Lecture |  |  |
| FN3 | | |  |  |  |  |  |  |
| Thursday | C | A | B | E |  | Q | P | W | X |
| FN4 | | |  |  | AN4 | |  |  |
| Friday | E | F | D | G |  | S | R | Y | Z |
| FN5 | | |  |  | AN5 | |  |  |

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| --- | --- |
| AJ | Dr Alan Ranjit Jacob |
| AM | Dr. Anand Mohan |
| BI | Dr. Balaji Iyer |
| CSS | Dr. Chandra Shekar Sharma |
| DS | Dr. Debaprasad Shee |
| DSK | Dr. Devarai Santhosh Kumar |
| KCS | Dr. Kirti Chandra Sahu |
| KM | Dr. Kishalay Mitra |
| LG | Dr. Lopamudra Giri |
| NM | Dr. Narasimha Mangadoddy |
| PDP | Dr. Parag D. Pawar |
| PJ | Dr. Phanindra Jampana |
| PM | Dr. Praveen Meduri |
| SM | Dr. Saptarshi Majumdar |
| SS | Dr. Satyavrata Samavedi |
| SG | Dr. Shelaka Gupta |
| SD | Dr. Suhanya Duraiswamy |
| SKM | Dr. Sunil K. Maity |
| VV | Dr. Vikrant Verma |
| VJ | Dr. Vinod Janardhanan |

SEMESTER IV

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9:00-9:55 | 10:00-10:55 | 11:00-11:55 | 12:00-12:55 | 13:00-14:30 | 14:30-15:55 | 16:00-17:25 | 17:30-18:55 | 19:00-20:30 |
| Monday | EE1102 | B | CH2190 | CH2170 | Lunch | CH2180 | CH2160 | W | X |
| FN1 | | |  |  | AN1 | |  |  |
| Tuesday | CH2170 | E | F | G |  | R | S | Y | Z |
| FN2 | | |  |  | AN2 | |  | |
| Wednesday | B | CH2190 | EE1102 | G |  | F | Challenge Lecture |  |  |
| FN3 | | |  |  | EP1031 | |  |  |
| Thursday | CH2190 | EE1102 | B | E |  | CH2160 | CH2180 | W | X |
| FN4 | | |  |  | AN4 | |  |  |
| Friday | E | F | CH2170 | G |  | S | R | Y | Z |
| FN5 | | |  |  | CH1031 | |  |  |

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| Faculty Advisor: Dr. Anand Mohan | | | | | | |
| Course No | Title | Credits | Instructor | Room | Slot | Segment |
| LAXXXX/  CAXXXX | LA/CA | 2 |  |  | G |  |
| EP1031 | Physics Lab | 2 |  |  | AN3 | 16 |
| EE1102 | Basic Electrical Engineering | 3 |  | A-119 | A | 16 |
| CH2160 | Materials Science for Chemical Engineers | 2 | PM | **C-LH7** | Q | 14 |
| CH2170 | Chemical Reaction Engineering – I | 3 | SS | A-119 | D | 16 |
| CH2180 | Heat transfer | 3 | BI | A-119 | P | 16 |
| CH2190 | Fluid Mechanics | 3 | AJ | A-119 | C | 16 |
| CH1031 | Applied Chemistry Lab | 1 | DSK | lab | AN5 | 16 |
| ID1050\* |  |  |  |  |  |  |

\*ID1050 will be offered in the March to Jun semester

SEMESTER VI

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9:00-9:55 | 10:00-10:55 | 11:00-11:55 | 12:00-12:55 | 13:00-14:30 | 14:30-15:55 | 16:00-17:25 | 17:30-18:55 | 19:00-20:30 |
| Monday | CH3022/  CH3042 | CH6120 | C | CH6040 | Lunch | P | CH6140 | CH2120 | |
| FN1 | | |  |  | AN1 | |  |  |
| Tuesday | CH6040 | E | CH6890 | G |  | R | S | Y | Z |
| FN2 | | |  |  | CH3021 | |  |  |
| Wednesday | CH6120 | C | CH3022/  CH3042 | G |  | CH6890 | Challenge Lecture |  |  |
| FN3 | | |  |  |  |  |  |  |
| Thursday | C | CH3022/  CH3042 | CH6120 | E |  | CH6140 | P | CH2021 | |
| FN4 | | |  |  | AN4 | |  |  |
| Friday | E | CH6890 | CH6040 | G |  | S | R | Y | Z |
| FN5 | | |  |  | CH3041 | |  |  |

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| Faculty Advisor: Dr. Vinod Janardhanan | | | | | | |
| Course No | Title | Credits | Instructor | Room | Slot | Segment |
| LAXXXX/CAXXXX | LA/CA | 2 |  |  | G |  |
| Minor | Minor (optional) |  |  |  | C |  |
| Minor | Minor (optional) |  |  |  | P |  |
| Honors\* | Honors\* |  |  |  |  |  |
| CH4015 | Mini Project | 3 |  |  |  |  |
| CH3022 | Mass Transfer Equipment Design | 1 | VJ | C-LH5 | A | 12 |
| CH3042 | Plant Design -I | 2 | PJ | C-LH5 | A | 36 |
| CH3021 | Reaction Engineering Lab | 1 | SM | Lab | AN2 | 16 |
| CH3041 | Process Control Lab | 1 | VJ | Lab | Saturday (2 to 5) | 16 |
| CH2011 | Applied Chemistry Lab | 1 | DSK | Lab | AN5 | 16 |
| CH2121 | Fluid Mechanics Lab | 1 | PDP | Lab | W-X (Monday) | 16 |
| CH2021 | Mechanical Operations Lab | 1 | NM | Lab | W-X (Thursday) | 16 |
| Core Elective Basket: Chemical Processes - Select any 3 credits | | | |  |  |  |
| CH6120 | Fluidization Technology | 2 | NM | A-119 | B | 36 |
| CH6890 | Introduction to Microfluidics | 1 | SD | A-119 | F | 56 |
| CH6040 | Process Intensification | 1 | PM | A-118 | D | 34 |
| CH6140 | Petroleum Refinery | 2 | SKM | A-119 | Q | 14 |
| 11 credits of core electives (can be taken in 7th and 8th semester) | | | | | | |
| Honors program – Need to complete 6 credits of core electives in 5th and 6th semesters followed by 6 credits of project work in 7th and 8th semesters (3 credits each semester). | | | | | | |

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| The core courses of M.Tech Chemical Engineering can be chosen as electives for Bachelor’s program. |

SEMESTER VIII

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|  | 9:00-9:55 | 10:00-10:55 | 11:00-11:55 | 12:00-12:55 | 13:00-14:30 | 14:30-15:55 | 16:00-17:25 | 17:30-18:55 | 19:00-20:30 |
| Monday | A | B | C | D | Lunch | P | Q | W | X |
| FN1 | | |  |  | AN1 | |  |  |
| Tuesday | D | E | F | G |  | CH4020 | S | Y | Z |
| FN2 | | |  |  | AN2 | |  |  |
| Wednesday | B | C | A | G |  | F | Challenge Lecture |  |  |
| FN3 | | |  |  | CH3021 | |  |  |
| Thursday | C | A | B | E |  | Q | P | W | X |
| FN4 | | |  |  | AN4 | |  |  |
| Friday | E | F | D | G |  | S | CH4020 | Y | Z |
| FN5 | | |  |  | AN5 | |  |  |

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| Faculty Advisor: Dr. Praveen Meduri | | | | | | |
| Course No | Title | Credits | Instructors | Room | Slot | Segment |
| LAXXXX/CAXXXX | LA/CA | 2 |  |  | G |  |
| Minor | Minor (optional) |  |  |  | C |  |
| Minor | Minor (optional) |  |  |  | P |  |
| Honors\* | Honors\* |  |  |  |  |  |
| CH4015 | Mini Project | 3 |  |  |  |  |
| CH4020 | Optimization | 2 | KM | A-118 | R | 14 |
| CH3021 | Reaction Engineering Lab | 1 | SM | Lab | AN3 | 16 |
| CH3041 | Process Control Lab | 1 | VJ | Lab | Saturday (2 to 5) | 16 |
| CH2121 | Fluid Mechanics Lab | 1 | PDP | Lab | W-X (Monday) | 16 |
|  | | | | | | |
| 13 credits of free electives (can be taken in any semester) | | | | | | |
| 11 credits of core electives (can be taken in 7th and 8th semester) | | | | | | |
| Honors program – Need to complete 6 credits of core electives in 5th and 6th semesters followed by 6 credits of project work in 7th and 8th semesters (3 credits each semester). | | | | | | |

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| The core courses of M.Tech Chemical Engineering can be chosen as electives for Bachelor’s program. |

M. Tech and PhD (Semester II)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9:00-9:55 | 10:00-10:55 | 11:00-11:55 | 12:00-12:55 | 13:00-14:30 | 14:30-15:55 | 16:00-17:25 | 17:30-18:55 | 19:00-20:30 |
| Monday | A | B | CH5030 | D | Lunch | CH5080 | Q | W | X |
| FN1 | | |  |  | AN1 | |  |  |
| Tuesday | D | E | F | G |  | R | S | Y | Z |
| FN2 | | |  |  | CH5101 | |  | |
| Wednesday | B | CH5030 | A | G |  | F | Challenge Lecture |  |  |
| FN3 | | |  |  |  |  |  |  |
| Thursday | CH5030 | A | B | E |  | Q | CH5080 | W | X |
| FN4 | | |  |  | AN4 | |  |  |
| Friday | E | F | D | G |  | S | R | Y | Z |
| FN5 | | |  |  | AN5 | |  |  |

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| Faculty Advisor: Dr Shelaka Gupta | | | | | | |
| Course No | Title | Credits | Instructors | Room | Slot | Segment |
| CH5080 | Advanced Transport Phenomena | 3 | PDP | A-118 | P | 16 |
| CH5030 | Molecular Thermodynamics | 2 | SM | A-118 | C | 36 |
| CH5101 | CFD Lab | 2 | VV | Lab | AN2 | 16 |
| CH5036 | Industry Lectures | 1 | AM |  | Allotted lecture time | 16 |
| CH5015 | Thesis (Stage 1) | 3 |  |  |  |  |
|  | Electives | 4 |  |  |  |  |

M. Tech (Semester IV)

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| Faculty Advisor: Dr Santosh Kumar Devarai | | | | | | |
| Course No | Title | Credits | Instructors | Room | Slot | Segment |
| CH5035 | Thesis (Stage 3) | 12 | All |  |  |  |

**M. Tech Dual Degree Semester 10 (B. Tech to M. Tech conversion)**

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| Faculty Advisor: Dr. Saptarshi Majumdar | | |
|  | Electives | 6 |
| CH5026 | Dual Degree Thesis (Stage 2) | 12 |

List of Electives

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Course No | Title | Credits | Instructor | Room | Slot | Segment |
| CH6810 | Computational Fluid Dynamics | 2 | KCS | **C-LH10** | D | 14 |
| CH6420 | Non-Newtonian Fluid Mechanics | 2 | AM | A-118 | B | 36 |
| CH6860 | Data analysis tools in experimental research | 1 | LG | A-118 | E | 12 |
| CH6480 | Principles of heterogeneous catalysis | 2 | DS | A-117 | F | 14 |
| CH6190 | Modern Probability Theory | 3 | PJ | A-118 | Q | 16 |
| CH6020 | Sustainable Energy | 1 | DSK | A118 | D | 56 |
| CH6690 | Energy storage systems | 2 | PM | A-119 | G | 14 |
| CH6610 | Fuel Cell Technology | 2 | VJ | A-118 | E | 36 |
| CH6120 | Fluidization Technology | 2 | NM | A119 | B | 36 |
| CH6890 | Introduction to Microfluidics | 1 | SD | A-119 | F | 56 |
| CH6040 | Process Intensification | 1 | PM | A-118 | D | 34 |
| CH5230 | Colloids, Emulsions and Foams | 2 | AJ | A-119 | E | 36 |
| CH6140 | Petroleum Refinery | 2 | SKM | A-119 | Q | 14 |

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| The core courses of M.Tech Chemical Engineering can be chosen as electives for Bachelor’s program |
| PBS courses offered for that program can also be chosen as electives for both Bachelor’s and Master’s program. |