<table>
<thead>
<tr>
<th>Dept.</th>
<th>MOOCS Course(s) (Professional Elective – I)</th>
<th>MOOCS Course(s) (Professional Elective – II)</th>
</tr>
</thead>
</table>
| Civil Engg. | 1. Optimization Methods for Civil Engineering (IITG)  
2. Rock Mechanics and Tunneling (IITKGP) | --- |
| EEE | 1. An Introduction to Coding Theory (IITK) | --- |
| ECE | 1. Introduction To Computer and Network Performance Analysis Using Queuing Systems (IITB)  
2. Modern Digital Communication Techniques (IITKGP) | --- |
| EIE | 1. Electrical Measurement and Electronic Instruments (IITKGP)  
2. Introduction to Operating Systems (IITM)  
3. Robotics (IITKGP)  
4. Industrial Robotics: Theories for Implementation (IIT-ISM Dhanbad)  
5. Introduction to Robotics (IITM) | --- |
| CSE | 1. Computer Vision (IITKGP)  
2. Natural Language Processing (IITKGP) |
| IT | 1. Multi-Core Computer Architecture (IITG)  
2. Introduction to Machine Learning (IITKGP) |
| CSE (AIML) / AIDS / AIML | 1. Computer Vision (IITKGP)  
2. Pattern Recognition and Applications (IITKGP)  
3. Computer Vision (IITKGP) |
| CSE (Cyber Security) | 1. Applied Accelerated Artificial Intelligence (IIT Palakkad)  
2. Cloud Computing (IITKGP) | 1. Data Science for Engineers (IITM)  
2. Introduction To Industry 4.0 And Industrial Internet of Things (IITKGP) |
| CSE (Data Science) | 1. Applied Accelerated Artificial Intelligence (IIT Palakkad)  
2. Programming, Data Structures and Algorithms Using Python (CMI) |
| CSE (IOT) | 1. Design and Analysis of Algorithms (CMI) | 1. Introduction to Machine Learning (IITKGP)  
2. Software Engineering (IITKGP) |
| CSE (Networks) | 1. Multi-Core Computer Architecture (IITG)  
2. Distributed Systems (IIT Patna)  
2. Data Science for Engineers (IITM)  
3. Introduction To Game Theory and Mechanism Design (IITB) |
| CE (Software Engg.) | 1. Computer Vision (IITKGP)  
2. Computer Graphics (IITG) | 1. Introduction to Internet of Things (IITKGP)  
2. Software Conceptual Design (IITB) |
| Computer Sc. and Design | 1. Data Science for Engineers (IITM)  
2. Computer Vision (IITKGP) | 1. Statistical Learning for Reliability Analysis (IITKGP)  
2. Natural Language Processing (IITKGP) |
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<th>Dept.</th>
<th>MOOCS Course(s) (Professional Elective - II)</th>
<th>MOOCS Course(s) (Professional Elective - III)</th>
<th>MOOCS Course(s) (Professional Elective - IV)</th>
<th>MOOCS Course(s) (Professional Elective - V)</th>
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<tr>
<td></td>
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<td>2. Ground Improvement (IITKGP)</td>
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<td>3. Availability and Management of Ground Water Resources (IIT-ISM)</td>
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<td>3. Bridge Engineering (IIT-ISM)</td>
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<tr>
<td>EEE</td>
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<td>1. Real-time Digital Signal Processing (IISc)</td>
<td>1. Design of Photovoltaic Systems (IISc)</td>
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<td>2. Automation in Manufacturing (IITG)</td>
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<td>2. Python For Data Science (IITM)</td>
<td>3. Social Network Analysis (IITD)</td>
<td>4. Social Networks (IIT Ropar)</td>
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<td>3. Digital Image Processing (IITKGP)</td>
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<td>4. Pattern Recognition and Application (IITKGP)</td>
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<tr>
<td>CSE</td>
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<td>1. Applied Accelerated Artificial Intelligence (IIT Palakkad)</td>
<td>2. Computational Complexity (IITH)</td>
</tr>
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</table>
| IT       | --- | --- | 1. Applied Accelerated Artificial Intelligence (IIT Palakkad)  
2. Cloud Computing (IITKGP) | 1. Reinforcement Learning (IITM)  
|----------|-----|-----| 3. Cloud Computing (IITKGP)  
2. Statistical Learning for Reliability Analysis (IITKGP) |
| CSE (AIML) | --- | --- | 1. Deep Learning (IIT Ropar)  
2. Privacy And Security in Online social media (IIITH) | 1. Big Data Computing (IIT Patna)  
2. Introduction To Haskell Programming (CMI) |
| CSE (Cyber Sec.) | --- | --- | 1. Natural Language Processing (IITKGP)  
2. Introduction to Internet of Things (IITKGP) | 1. Cloud Computing (IITKGP)  
2. Data Science for Engineers (IITM) |
| CSE (Data Science) | --- | --- | 1. Introduction To Industry 4.0 And Industrial Internet of Things (IITKGP) | 1. Introduction to Machine Learning (IITKGP)  
2. Distributed Systems (IIT Patna) |
| CSE (IOT) | --- | --- | 1. Deep Learning (IIT Ropar)  
2. Cyber Security and Privacy (IITM) | 1. Introduction to Machine Learning (IITKGP)  
2. Introduction To Haskell Programming (CMI) |
| CSE (Networks) | --- | --- | 1. Natural Language Processing (IITKGP)  
2. Cloud Computing (IITKGP) |
| CE (Software Engg.) | --- | --- | 1. Natural Language Processing (IITKGP)  
2. Cloud Computing (IITKGP) |

Note: Principals are requested to instruct the students not to repeat courses/subjects with the same title. A student has to take the approval of the allocated mentor (by the HOD) before finalization of MOOCs Courses. The mentor has to thoroughly verify and ensure that 1) All the pre-requisites for the MOOCs courses are satisfied, 2) The titles of the subjects in the forthcoming semesters are not similar to the subjects studied under MOOCs in the current semesters.

REGISTRAR