

| Details of the Swayam NPTEL-MOOC Courses Approved for Department of Mathematics | | | | | | |
|---|---|--|-----------------------|--------|-------------------------------|----------------|
| Sl. No | Course Title | Name of the Developer | Name of the Institute | No. of | Programme | Senate Meeting |
| 1 | Introduction to Queueing theory | Prof. N. Selvaraju | IIT Guwahati | 12 | BTech (M&C), MSc (M&C), Ph.D. | 165, 170 |
| 2 | Deep Learning | Prof. P. K. Biswas | IIT Kharagpur | 12 | BTech (M&C), MSc (M&C) | 166 |
| 3 | Getting Started with Competitive Programming | Prof. Neeldhara Misra | IIT Gandhinagar | 12 | BTech (M&C) | 166, 170 |
| 4 | Introduction to Machine Learning | Prof. Balaraman Ravindran | IIT Madras | 12 | BTech (M&C), MSc (M&C) | 166, 170 |
| 5 | Blockchain and its Applications | Prof. Sandip Chakraborty, Prof. Shamik | IIT Kharagpur | 12 | BTech (M&C), MSc (M&C) | 166, 170 |
| 6 | Data analytics with python | Prof. A. Ramesh | IIT Roorkee | 12 | BTech (M&C), MSc (M&C) | 166, 170 |
| 7 | An introduction to Artificial Intelligence | Prof. Mausam | IIT Delhi | 12 | BTech (M&C) | 166, 170 |
| 8 | Natural Language Processing | Prof. Pawan Goyal | IIT Kharagpur | 12 | BTech (M&C), MSc (M&C) | 166, 170 |
| 9 | Introduction to internet of things | Prof. Sudip Misra | IIT Kharagpur | 12 | BTech (M&C), MSc (M&C) | 166, 170 |
| 10 | Essentials of Data Science with R software- 1:Probability and Statistical Inference | Prof. Shalabh | IIT Kanpur | 12 | BTech (M&C), MSc (M&C) | 166, 170 |
| 11 | Cloud Computing | Prof. Soumya Kanti Ghosh | IIT Kharagpur | 12 | BTech (M&C), MSc (M&C) | 170 |
| 12 | Computer Networks and Internet Protocol | Prof. Soumya Kanti Ghosh, Prof. Sandip | IIT Kharagpur | 12 | BTech (M&C), MSc (M&C) | 170 |
| 13 | Privacy and Security in Online Social Media | Prof. Ponnurangam Kumaraguru | IIIT Hyderabad | 12 | BTech (M&C), MSc (M&C) | 170 |
| 14 | Artificial intelligence: knowledge representation and reasoning | Prof. Deepak Khemani | IIT Madras | 12 | BTech (M&C), MSc (M&C) | 170 |
| 15 | Machine learning and Science application | Prof. Balaji Srinivasan, Prof. Ganapathy | IIT Madras | 12 | BTech (M&C), MSc (M&C) | 170 |
| 16 | Reinforcement Learning | Prof. Balaraman Ravindran | IIT Madras | 12 | BTech (M&C), MSc (M&C) | 170 |
| 17 | Software Engineering | Prof. Rajib Mall | IIT Kharagpur | 12 | BTech (M&C), MSc (M&C) | 179 |
| 18 | Cyber Security and Privacy | Prof. Saji K Mathew | IIT Madras | 12 | BTech (M&C), MSc (M&C) | 179 |
| 19 | Introduction To Machine Learning - IITKGP | Prof. Sudeshna Sarkar | IIT Kharagpur | 8 | BTech (M&C), MSc (M&C) | 179 |
| 20 | Ethical Hacking | Prof. Indranil Sengupta | IIT Kharagpur | 12 | BTech (M&C), MSc (M&C) | 179 |