

### Submission of Bouquet of MOOCs Courses

**Table 1. List of certifiable courses approved for earning the extra credits under core ECE Stream**

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Recent Advances in Transmission Insulators By Prof. Subba Reddy	4	January 18, 2021	March 21, 2021	January 25, 2021	All
2	Mathematical Methods and Techniques in Signal Processing By Prof. Shayan Srinivasa Garani	12	January 18, 2021	April 25, 2021	January 25, 2021	All
3	Evolution of Air Interface towards 5G By Prof. Suvra Sekhar Das	8	February 15, 2021	April 24, 2021	February 15, 2021	All
4	A brief introduction of Micro – Sensors By Prof. Santanu Talukder	4	January 18, 2021	March 21, 2021	January 25, 2021	All
5	Photonic integrated circuit By Prof. Shankar Kumar Selvaraja	12	January 18, 2021	April 24, 2021	January 25, 2021	All
6	Applied Linear Algebra By Prof. Andrew Thangaraj	12	January 18, 2021	April 24, 2021	January 25, 2021	All
7	Optical Fiber Sensors By Prof Balaji Srinivasan	12	January 18, 2021	April 25, 2021	January 25, 2021	All
8	Antennas By Prof. Girish Kumar	12	January 18, 2021	April 24, 2021	January 25, 2021	All
9	Biomedical Signal Processing By Prof. Sudipta Mukhopadhyay	12	January 18, 2021	April 24, 2021	January 25, 2021	EEE, ECE, EIE

**Table 2. List of certifiable courses approved for earning the extra credits by ECE Students under **EEE Discipline (Interdisciplinary)****

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Fundamental of Power Electronics By Prof. L. Umanand	12	January 18, 2021	April 25, 2021	January 25, 2021	ECE, EEE

**Table 3. List of certifiable courses approved for earning the extra credits by ECE Students under CSE Discipline (Interdisciplinary)**

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Programming in Java By Prof. Debasis Samanta	12	January 18, 2021	April 25, 2021	January 25, 2021	All
2	Deep Learning – IITKGP By Prof. Prabir Kumar Biswas	12	January 18, 2021	April 24, 2021	January 25, 2021	ECE, EEE, CSE
3	Data Mining By Prof. Pabitra Mitra	8	February 15, 2021	February 15, 2021	February 15, 2021	All
4	VLSI Physical Design By Prof. Indranil Sengupta	12	January 18, 2021	April 25, 2021	January 25, 2021	ECE, EEE, CSE
5	Software Testing By Prof. Rajib Mall	4	January 18, 2021	March 21, 2021	January 25, 2021	All
6	Cloud computing By Prof. Soumya Kanti Ghosh	8	February 15, 2021	April 25, 2021	February 15, 2021	CSE, ECE, EEE
7	Cloud Computing and Distributed Systems By Prof. Rajiv Misra	8	January 18, 2021	March 21, 2021	January 25, 2021	All
8	Introduction to Industry 4.0 and Industrial Internet of Things By Prof. Sudip Misra	12	January 18, 2021	April 25, 2021	January 25, 2021	All
9	Design and analysis of algorithms By Prof. Madhavan Mukund	8	January 18, 2021	March 21, 2021	January 25, 2021	All
10	Data Science for Engineers By Prof. Ragunathan Rengasamy, Prof. Shankar Narasimhan	8	January 18, 2021	March 21, 2021	January 25, 2021	All
11	Information Security - 5 - Secure Systems Engineering By Prof. Chester Rebeiro	8	January 18, 2021	March 21, 2021	January 25, 2021	All
12	Python for Data Science By Prof. Ragunathan Rengasamy	4	January 18, 2021	March 21, 2021	January 25, 2021	All
13	Artificial Intelligence: Knowledge Representation and Reasoning By Prof. Deepak Khemani	12	January 18, 2021	April 24, 2021	January 25, 2021	All
14	AI: Constraint Satisfaction By Prof. Deepak Khemani	8	January 18, 2021	March 21, 2021	January 25, 2021	All

**Table 4. List of certifiable courses approved for earning the extra credits  
by ECE Students under **Mechanical Discipline (Interdisciplinary)****

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Mechatronics By Prof. Pushparaj Mani Pathak	8	January 18, 2021	March 21, 2021	January 25, 2021	Mech, ECE, EEE
2	Robotics: Basics and Selected Advanced Concepts By Prof. Ashitava Ghosal	12	January 18, 2021	April 24, 2021	January 25, 2021	All

**Table 5. List of certifiable courses approved for earning the extra credits by ECE Students under **cutting edge technologies, environmental, economics and others that kindles research activities, start-ups, entrepreneurial activities etc.****

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Enhancing Soft Skills and Personality By Prof. T. Ravichandran	8	February 15, 2021	April 24, 2021	February 15, 2021	All
2	Employment Communication A Lab based course By Prof. Seema Singh	8	January 18, 2021	March 21, 2021	January 25, 2021	All
3	Soft Skill Development By Prof. Priyadarshi Patnaik, Prof. V. N. Giri, Prof. D. Suar	8	January 18, 2021	March 21, 2021	January 25, 2021	All
4	Intellectual Property By Prof. Feroz Ali	12	January 18, 2021	April 25, 2021	January 25, 2021	All
5	English language for competitive exams By Prof. Aysha Iqbal	12	January 18, 2021	April 24, 2021	January 25, 2021	All
6	Effective Writing By Prof. Binod Mishra	4	January 18, 2021	March 21, 2021	January 25, 2021	All
7	Towards an Ethical Digital Society: From Theory to Practice By Prof. Bidisha Chaudhuri	4	January 18, 2021	March 21, 2021	January 25, 2021	All
8	Numerical Methods: Finite difference approach By Prof. Aameeya Kumar Nayak	4	January 18, 2021	March 21, 2021	January 25, 2021	All

9	Advanced Probability Theory By Prof. Niladri Chatterjee	12	January 18, 2021	April 25, 2021	January 25, 2021	All
10	Partial Differential Equations (PDE) for Engineers: Solution by Separation of Variables By Prof. Sirshendu De	4	January 18, 2021	March 21, 2021	January 25, 2021	All
11	Essentials of Data Science With R Software - 1: Probability and Statistical Inference By Prof. Shalabh	12	January 18, 2021	April 24, 2021	January 25, 2021	All
12	Fuzzy Logic and Neural Networks By Prof. Dilip Kumar Pratihar	8	February 15, 2021	April 25, 2021	February 15, 2021	All
13	Matlab Programming for Numerical Computation By Prof. Niket Kaisare	8	January 18, 2021	March 21, 2021	January 25, 2021	All
14	Quantum Mechanics I By Prof. P. Ramadevi	12	January 18, 2021	April 25, 2021	January 25, 2021	All

\*\*All → Students belonging to all disciplines of Engineering