



**Visvesvaraya Technological University**  
Belagavi-590 018, Karnataka

**Board of Studies in Electronics and Instrumentation Engineering  
(EI / BM / ML)**

**List of MOOC Courses for the Award of B.E. (Honours)**

**Table 1. List of certifiable courses approved for earning the extra credits under  
Electronics and Instrumentation Engineering (EI/BM/ML) Board**

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Bioengineering: An Interface with Biology and Medicine Prof. Sanjeeva Srivastava	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG
2	BioInformatics: Algorithms and Applications Prof. Michael Gromiha	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
3	Biostatistics and Design of experiments Prof. Mukesh Doble	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
4	Medical Biomaterials Prof. Mukesh Doble	8 Weeks	February 15, 2021	April 9, 2021	February 15, 2021	UG/PG
5	Introductory Mathematical Methods for Biologists Prof. Ranjit Padinhateeri	8 Weeks	February 15, 2021	April 9, 2021	February 15, 2021	UG/PG
6	Process Control - Design, Analysis and Assessment Prof. Rangunathan Rengasamy	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
7	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems Prof. Vaibhav Vasant Goud & Prof. R. Anandalakshmi	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG

8	Process Equipment Design Prof. Shabina Khanam	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
9	Chemical Process Instrumentation Prof. Debasis Sarkar	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
10	Remote Sensing: Principles and Applications Prof. Eswar Rajasekaran	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
11	Problem solving through Programming In C Prof. Anupam Basu	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
12	Introduction to Soft Computing Prof. Debasis Samanta	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
13	Software Testing Prof. Rajib Mall	4 Weeks	January 18, 2021	February 12, 2021	January 25, 2021	UG/PG
14	Cloud computing Prof. Soumya Kanti Ghosh	8 Weeks	February 15, 2021	April 9, 2021	February 15, 2021	UG
15	Programming, Data Structures And Algorithms Using Python Prof. Madhavan Mukund	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG
16	Introduction to Machine Learning Prof. Balaraman Ravindran	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
17	Artificial Intelligence: Knowledge Representation and Reasoning Prof. Deepak Khemani	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
18	The Joy of Computing using Python Prof. Sudarshan Iyengar & Prof. Yayati Gupta	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
19	Computer Organization and Architecture: A Pedagogical Aspect Prof. Santhosh biswas, Prof. Jatindra kumar deka & Prof. Arnab sarkar	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG

20	An Introduction to Artificial Intelligence Prof. Mausam	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
21	Data Analytics with Python Prof. A. Ramesh	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
22	Fundamentals of Automotive Systems Prof. C. S. Shankar Ram	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
23	CMOS Digital VLSI Design Prof. Sudeb Dasgupta	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
24	Evolution of Air Interface towards 5G Prof. Suvra Sekhar Das	8 Weeks	February 15, 2021	April 9, 2021	February 15, 2021	UG/PG
25	Sensors and Actuators Prof. Hardik Jeetendra Pandya	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
26	Digital System Design Prof. Neeraj Goel	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
27	Optical Fiber Sensors Prof Balaji Srinivasan	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
28	Optical Communications Prof. Pradeep Kumar K	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
29	Electronics equipment integration and Prototype building Prof. N. V. Chalapathi Rao	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
30	Enhancing Soft Skills and Personality Prof. T. Ravichandran	8 Weeks	February 15, 2021	April 9, 2021	February 15, 2021	UG/PG
31	Emotional Intelligence Prof. Rabindra Kumar Pradhan	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
32	Speaking Effectively Prof. Anjali Gera Roy	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG
33	Employment Communication: A Lab based course Prof. Seema Singh	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG
34	Soft Skill Development Prof. Priyadarshi Patnaik, Prof. V. N. Giri & Prof. D. Suar	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG

35	Intellectual Property Prof. Feroz Ali	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
36	Health Research Fundamentals Prof. P. Manickam	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG
37	Patent Law for Engineers and Scientists Prof. Feroz Ali	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
38	English language for competitive exams Prof. Aysha Iqbal	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
39	Effective Writing Prof. Binod Mishra	4 Weeks	January 18, 2021	February 12, 2021	January 25, 2021	UG/PG
40	Introduction to Operations Research Prof. G. Srinivasan	8 Weeks	February 15, 2021	April 9, 2021	February 15, 2021	UG/PG
41	Linear Algebra Prof. Pranav Haridas	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
42	Entrepreneurship Essentials Prof. Manoj Kumar Mondal	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG/PG
43	Fundamental of Fluid Mechanics for Chemical and Biomedical Engineers Prof. Raghvendra Gupta	12 Weeks	January 18, 2021	April 9, 2021	January 25, 2021	UG
44	Matlab Programming for Numerical Computation Prof. Niket Kaisare	8 Weeks	January 18, 2021	March 12, 2021	January 25, 2021	UG/PG
45	Introduction to Database Systems Prof. Sreenivasa Kumar	12 Weeks	January 18, 2021	April 25, 2021	January 25,2021	UG
46	Information Security - 5 - Secure Systems Engineering Prof. Chester Rebeiro	8 Weeks	January 18,2021	March 21, 2021	January 25,2021	UG/PG
47	Database Management System Prof. Partha Pratim Das & Prof. Samiran Chattopadhyay	8 weeks	January 18,2021	March 21, 2021	January 25,2021	UG/PG