



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi
Proposed list of MOOCs (NPTEL July-Dec 2021 Timeline) for B.E Degree Honours

Format for submission of Bouquet of MOOCs Courses

Table 1. List of certifiable courses approved for earning the extra credits under type

Name of the Board		BIOTECHNOLOGY				
Sl. No.	Name of the Subject & Subject Matter Expert(SME)	Duration in Weeks	Start Date	End Date	Exam Dates	Enrolment End Date
1	Industrial Biotechnology Prof. Debabrata Das	12 Weeks	26 July 2021	15 October 2021	23 October 2021	2 August 2021
2	Introduction to Proteogenomics Prof. SanjeevaSrivastava	12 Weeks	26 July 2021	15 October 2021	24 October 2021	2 August 2021
3	Principles Of Downstream Techniques In Bioprocess Prof. MukeshDoble	12 Weeks	26 July 2021	15 October 2021	23 October 2021	2 August 2021
4	Experimental Biotechnology Prof. Vishal Trivedi	12 Weeks	26 July 2021	15 October 2021	24 October 2021	2 August 2021
5	Drug Delivery: Principles and Engineering Prof. RachitAgarwal	12 Weeks	26 July 2021	15 October 2021	23 October 2021	2 August 2021
6	Biomedical nanotechnology Prof. P. Gopinath	4 Weeks	23 August 2021	17 September 2021	23 October 2021	23 August 2021
7	Tissue engineering Prof. VigneshMuthuvijayan	8 Weeks	26 July 2021	17 September 2021	26 September 2021	2 August 2021
8	Plant Cell Bioprocessing Prof. SmitaSrivastava	8 Weeks	23 August 2021	15 October 2021	24 October 2021	23 August 2021
9	Functional Genomics Prof. S. Ganesh	4 Weeks	23 August 2021	17 September 2021	23 October 2021	23 August 2021
10	Introduction to Developmental Biology Prof. Subramaniam K	12 Weeks	26 July 2021	15 October 2021	24 October 2021	2 August 2021
11	Animal Physiology Prof. Mainak Das	12 Weeks	26 July 2021	15 October 2021	24 October 2021	2 August 2021
12	Fundamentals of Protein Chemistry Prof. SwagataDasgupta	12 Weeks	26 July 2021	15 October 2021	24 October 2021	2 August 2021
13	Biophysical chemistry Prof. Pramit Kumar Chowdhury	12 Weeks	26 July 2021	15 October 2021	24 October 2021	2 August 2021
14	Biological Inorganic Chemistry Prof. Debashis Ray	12 Weeks	26 July 2021	15 October 2021	23 October 2021	2 August 2021

Table 2. List of certifiable courses approved for earning the extra credits by BIOTECHNOLOGY Students (Interdisciplinary)



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi
Proposed list of MOOCs (NPTEL July-Dec 2021 Timeline) for B.E Degree Honours

Sl. No.	Name of the Subject & Subject Matter Expert(SME)	Duration in Weeks	Start Date	End Date	Exam Dates	Enrolment End Date
1	Bio microfluidics Prof. Tapas Kumar Maiti Prof. SumanChakraborty	4 Weeks	23 August 2021	17 September 2021	24 October 2021	23 August 2021
2	Aspen Plus® simulation software - a basic course for beginners Prof. PrabirkumarSaha	12 Weeks	26 July 2021	15 October 2021	24 October 2021	2 August 2021
3	Transport Phenomena of Non-Newtonian Fluids Prof. Nanda Kishore	12 Weeks	26 July 2021	15 October 2021	24 October 2021	2 August 2021
4	Trace and ultra-trace analysis of metals using atomic absorption spectrometry Prof. J R Mudakavi	8 Weeks	26 July 2021	17 September 2021	26 September 2021	2 August 2021
5	Introduction to mechanobiology Prof. ShamikSen	8 Weeks	26 July 2021	17 September 2021	26 September 2021	2 August 2021
6	Transport Phenomena in Biological Systems Prof. G. K. Suraishkumar	12 Weeks	26 July 2021	15 October 2021	23 October 2021	2 August 2021
7	Fundamentals of micro and nanofabrication Prof. Sushobhanavasthi Prof. Shankar Selvaraja	12 Weeks	26 July 2021	15 October 2021	24 October 2021	2 August 2021
8	Introduction to Dynamical Models in Biology Prof. Biplab Bose	4 Weeks	23 August 2021	17 September 2021	24 October 2021	2 August 2021
9	Introduction to Biomedical Imaging Systems Prof. Arun K. Thittai	12 Weeks	26 July 2021	15 October 2021	23 October 2021	2 August 2021
10	Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries Prof. Shashank Deep	12 Weeks	26 July 2021	15 October 2021	23 October 2021	2 August 2021
11	Metals In Biology Prof. D. Maiti	8 Weeks	26 July 2021	17 September 2021	26 September 2021	2 August 2021
12	Organic Chemistry in Biology and Drug Development Prof. AmitBasak	12 Weeks	26 July 2021	15 October 2021	23 October 2021	2 August 2021
13	Fundamentals of Food Process Engineering Prof. JayeetaMitra	12 Weeks	26 July 2021	15 October 2021	23 October 2021	2 August 2021
14	Ecology and Environment Prof. AbhijitDeshpande Prof. R. Ravi Krishna	8 Weeks	23 August 2021	15 October 2021	24 October 2021	23 August 2021



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi
Proposed list of MOOCs (NPTEL July-Dec 2021 Timeline) for B.E Degree Honours

15	Neuroscience of Human Movements Prof. Varadhan	12 Weeks	26 July 2021	15 October 2021	23 October 2021	2 August 2021
16	Organic Farming for Sustainable Agricultural Production Prof. Dillip Kumar Swain	8 Weeks	26 July 2021	17 September 2021	26 September 2021	2 August 2021
17	Algorithms for protein modelling and engineering Prof. PralayMitra	12 Weeks	26 July 2021	15 October 2021	23 October 2021	2 August 2021
18	Data Science for Engineers Prof. RangunathanRengasamy Prof. Shankar Narasimhan	8 Weeks	26 July 2021	17 September 2021	26 September 2021	2 August 2021
19	Health Research Fundamentals Prof. P. Manickam	8 Weeks	26 July 2021	17 September 2021	26 September 2021	2 August 2021
20	Innovation, Business Models and Entrepreneurship Prof. RajatAgarwal Prof. Vinay Sharma	8 Weeks	23 August 2021	15 October 2021	24 October 2021	23 August 2021