

Format for submission of Bouquet of MOOCs Courses

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

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	End Date	Exam Dates	Enrolment End	Intended Audience	Institute	Co-ordinated Institute
1	Introduction to Professional Scientific Communication - Prof. S. Ganesh	4 weeks	18-01-2021	12-02-2021	21-03-2021	25-01-2021	PG	IITK	IITK
2	Human Molecular Genetics - Prof. S. Ganesh	4 weeks	18-01-2021	12-02-2021	21-03-2021	25-01-2021	UG/PG	IITK	IITK
3	Thermodynamics for Biological Systems: Classical and Statistical Aspect - Prof. Suraishkumar G K, Prof. Sanjib Senapati	12 weeks	18-01-2021	9-04-2021	25-04-2021	25-01-2021	UG	IITM	IITM
4	Material and Energy Balances - Prof. Vignesh Muthuvijayan	12 weeks	18-01-2021	9-04-2021	24-04-2021	25-01-2021	UG	IITM	IITM
5	Bioengineering: An Interface with Biology and Medicine - Prof. Sanjeeva Srivastava	8 weeks	18-01-2021	12-03-2021	21-03-2021	25-01-2021	UG	IITB	IITB
6	Bioinformatics: Algorithms and	12 weeks	18-01-2021	09-04-2021	25-04-2021	25-01-2021	UG/PG		

	Applications - Prof. Michael Gromiha							IITM	IITM
7	Biostatistics and Design of experiments - Prof. Mukesh Doble	8 weeks	18-01-2021	12-03-2021	21-03-2021	25-01-2021	UG/PG	IITM	IITM
8	Medical Biomaterials - Prof. Mukesh Doble	8 weeks	15-02-2021	09-04-2021	24-04-2021	15-02-2021	UG/PG	IITM	IITM
9	Introductory Mathematical Methods for Biologists	8 weeks	15-02-2021	09-04-2021	25-04-2021	15-02-2021	UG/PG	IITB	IITB
10	Interactomics : Basics & Applications - Prof. Sanjeeva Srivastava	12 weeks	18-01-2021	9-04-2021	24-04-2021	25-01-2021	UG/PG	IITB	IITB
11	Demystifying The Brain - Prof. Srinivas Chakravarthy	4 weeks	18-01-2021	12-02-2021	21-03-2021	25-01-2021	UG/PG	IITM	IITM
12	Biointerface Engineering - Prof. Lalit M. Pandey	8 Weeks	18-01-2021	12-03-2021	21-03-2021	25-01-2021	UG/PG	IITG	IITG
13	Bioreactor Design and Analysis - Prof. Smita Srivastava	8 Weeks	18-01-2021	12-03-2021	21-03-2021	25-01-2021	UG/PG	IITM	IITM
14	Structural Biology - Prof. Saugata	12 Weeks	18-01-2021	09-04-2021	24-04-2021	25-01-2021	UG/PG	IITR	IITR

	Hazra								
15	Optical Spectroscopy and Microscopy : Fundamentals of optical measurements and instrumentation - Prof. Balaji Jayaprakash	12 Weeks	18-01-2021	09-04-2021	24-04-2021	25-01-2021	PG	IISc	IISc
16	Computational Systems Biology - Prof. Karthik Raman	12 Weeks	18-01-2021	09-04-2021	24-04-2021	25-01-2021	UG/PG	IITM	IITM
17	Aspects Of Biochemical Engineering - Prof. Debabrata Das	12 Weeks	18-01-2021	09-04-2021	24-04-2021	25-01-2021	UG/PG	IIT KGP	IIT KGP
18	Metabolic Engineering - Prof. Pinaki Sar Prof. Amit Ghosh	8 Weeks	15-02-2021	09-04-2021	25-04-2021	15-02-2021	UG	IIT KGP	IIT KGP
19	Biochemistry – IITM - Prof. Subramaniam K	12 Weeks	18-01-2021	09-04-2021	24-04-2021	25-01-2021	UG	IITM	IITM
20	Forests and their management - Prof. Ankur Awadhiya	12 Weeks	18-01-2021	09-04-2021	24-04-2021	25-01-2021	UG	IITK	IITK
21	Conservation Economics - Prof. Ankur Awadhiya	12 Weeks	18-01-2021	09-04-2021	25-04-2021	25-01-2021	UG/PG	IITK	IITK

22	Environmental Chemistry and Microbiology	12 Weeks	18-01-2021	09-04-2021	25-04-2021	25-01-2021	UG/PG	IIT KGP	IIT KGP
23	Cell Biology: Cellular organization, division and processes - Prof. Shikha Laloraya	8 Weeks	15-02-2021	09-04-2021	24-04-2021	15-02-2021	UG/PG	IISc	IISc

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

Sl. No .	Name of the Subject & Instructor	Duration in Weeks	Start Date	End date	Exam Dates	Enrolment End	Intended Audience	Institute	Co-ordinated institute
1	Computational Fluid Dynamics - Prof. Sreenivas Jayanti	12 Weeks	18-01-2021	09-04-2021	25-04-2021	25-01-2021	UG/PG	IITM	IITM
2	Biomass Conversion and Biorefinery - Prof. Kaustubha Mohanty	12 Weeks	18-01-2021	09-04-2021	24-04-2021	25-01-2021	UG/PG	IITG	IITG
3	Introduction to process modeling in the Membrane Separation Process - Prof.Sirshendu De	4 Weeks	15-02-2021	12-03-2021	24-04-2021	15-02-2021	UG/PG	IIT KGP	IIT KGP
4	Sales and Distribution Management - Prof. Sangeeta Sahney	8 Weeks	15-02-2021	09-04-2021	25-04-2021	15-02-2021	UG/PG	IIT KGP	IIT KGP
5	Managing change in organizations - Prof. KBL Srivastava	12 Weeks	18-01-2021	12-03-2021	21-03-2021	25-01-2021	UG/PG	IIT KGP	IIT KGP
6	Linear Algebra - Prof. Pranav Haridas	12 Weeks	18-01-2021	09-04-2021	24-04-2021	25-01-2021	UG	Kerala School of Mathematics	IITM

7	Introduction to Rings and Fields - Prof. Krishna Hanumanthu	8 Weeks	18-01-2021	12-03-2021	21-03-2021	25-01-2021	PG	CMI	IITM
8	Quantum Transport - Prof. Madhu Thalakulam	12 Weeks	18-01-2021	09-04-2021	24-04-2021	25-01-2021	PG	IISER Thiruvananthapuram	IITM
9	Statistical Mechanics - Prof. Dipanjan Chakraborty	12 Weeks	18-01-2021	09-04-2021	25-04-2021	25-01-2021	UG/PG	IISER Mohali	IITM
10	Intellectual Property - Prof. Feroz Ali	12 Weeks	18-01-2021	09-04-2021	25-04-2021	25-01-2021	UG/PG	IITM	IITM