



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

An Autonomous Institute | Affiliated to Osmania University
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbit.ac.in



COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

45
years

Department of Biotechnology NPTEL/SWAYAM Courses for Minor Engineering in **Bioscience and Bioengineering** (Applicable for 2020 admitted students onwards)

S.N.	Name of the Course	Link	No of weeks	Credits
1	Post Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop Products	https://onlinecourses.nptel.ac.in/noc24_ag11/preview	12	3
2	Advanced Aquaculture Technology	https://onlinecourses.nptel.ac.in/noc24_ag10/preview	12	3
3	Design for Biosecurity	https://onlinecourses.nptel.ac.in/noc24_bt77/preview	12	3
4	Neural Science for Engineers	https://onlinecourses.nptel.ac.in/noc24_ee01/preview	12	3
5	Classics in Neuroscience	https://onlinecourses.nptel.ac.in/noc24_bt38/preview	8	2
6	Biochemistry	https://onlinecourses.nptel.ac.in/noc24_cy06/preview	12	3
7	Biochemistry - IITM	https://onlinecourses.nptel.ac.in/noc24_bt12/preview	12	3
8	Molecular Biology	https://onlinecourses.nptel.ac.in/noc24_bt07/preview	12	3
9	Cell Biology: Cellular organization, division and processes	https://onlinecourses.nptel.ac.in/noc24_bt18/preview	8	2
10	I Think Biology	https://onlinecourses.nptel.ac.in/noc24_bt36/preview	12	3
11	Experimental Biochemistry	https://onlinecourses.nptel.ac.in/noc24_cy13/preview	12	3
12	Classics in Neuroscience	https://onlinecourses.nptel.ac.in/noc24_bt38/preview	8	2
13	Human Behaviour	https://onlinecourses.nptel.ac.in/noc24_hs35/preview	8	2
14	Applied Environmental Microbiology	https://onlinecourses.nptel.ac.in/noc24_ce04/preview	12	3
15	RNA Biology	https://nptel.ac.in/courses/102106097	12	3
16	Biomechanics	https://onlinecourses.nptel.ac.in/noc24_bt06/preview https://nptel.ac.in/courses/102106098	12	3
17	Enzyme Sciences and Technology	https://onlinecourses.nptel.ac.in/noc23_bt05/preview	12	3
18	Metabolic Engineering	https://onlinecourses.nptel.ac.in/noc23_bt06/preview	8	2
19	Introduction to Professional Scientific Communication	https://onlinecourses.nptel.ac.in/noc23_bt09/preview	4	1
20	Bioengineering: An Interface with Biology and Medicine	https://onlinecourses.nptel.ac.in/noc23_bt19/preview https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-bt09/	8	2

21	Interactomics: Basics & Applications	https://onlinecourses.nptel.ac.in/noc23_bt20/preview	12	3
22	Structural Biology	https://onlinecourses.nptel.ac.in/noc23_bt23/preview	12	3
23	Immunology	https://onlinecourses.swayam2.ac.in/cec23_bt13/preview	12	3
24	Virology	https://onlinecourses.swayam2.ac.in/cec23_bt08/preview https://swayam.gov.in/nd2_cec20_bt15/preview	12	4
25	Nanotechnology in Agriculture	https://onlinecourses.nptel.ac.in/noc23_bt30/preview	8	2
26	Human Genetics	https://onlinecourses.swayam2.ac.in/cec23_bt09/preview https://onlinecourses.swayam2.ac.in/cec23_bt05/preview	12	4

Note:

1. Students can secure minimum 3 credits in each semester (It is not mandatory but just for the convenience of students so that they can secure 20 credits before seventh semester).
2. Students cannot choose the courses they have studied as part of the regular curriculum (160 credits).
3. In case, any open elective matches with the subjects given in the above list, student can choose such subject only when he/she has not opted that elective in regular curriculum.
4. Incase, NPTEL is not offering any course listed above, BoS chairman can suggest an alternative course being offered by NPTEL during that time.
5. The list of courses will be updated time to time based on the courses announced by NPTEL and same will be informed to the students before deadline by the concerned faculty coordinators