



# 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

## Chaitanya Bharathi Institute of Technology Department of Biotechnology

### COURSES TO BE PURSUED FOR OBTAINING MINOR ENGINEERING IN **BIOSCIENCE AND BIOENGINEERING**

(Applicable for 2020 admitted students onwards)

S.N.	Name of the Course	Link	No of weeks	Credits
1	Neural Science for Engineers	<a href="https://onlinecourses.nptel.ac.in/noc24_ee01/preview">https://onlinecourses.nptel.ac.in/noc24_ee01/preview</a>	12	3
2	Classics in Neuroscience	<a href="https://onlinecourses.nptel.ac.in/noc24_bt38/preview">https://onlinecourses.nptel.ac.in/noc24_bt38/preview</a>	8	2
3	Biochemistry	<a href="https://onlinecourses.nptel.ac.in/noc24_cy06/preview">https://onlinecourses.nptel.ac.in/noc24_cy06/preview</a>	12	3
4	Biochemistry - IITM	<a href="https://onlinecourses.nptel.ac.in/noc24_bt12/preview">https://onlinecourses.nptel.ac.in/noc24_bt12/preview</a>	12	3
5	Molecular Biology	<a href="https://onlinecourses.nptel.ac.in/noc24_bt07/preview">https://onlinecourses.nptel.ac.in/noc24_bt07/preview</a>	12	3
6	Cell Biology: Cellular organization, division and processes	<a href="https://onlinecourses.nptel.ac.in/noc24_bt18/preview">https://onlinecourses.nptel.ac.in/noc24_bt18/preview</a>	8	2
7	I Think Biology	<a href="https://onlinecourses.nptel.ac.in/noc24_bt36/preview">https://onlinecourses.nptel.ac.in/noc24_bt36/preview</a>	12	3
8	Experimental Biochemistry	<a href="https://onlinecourses.nptel.ac.in/noc24_cy13/preview">https://onlinecourses.nptel.ac.in/noc24_cy13/preview</a>	12	3
9	Classics in Neuroscience	<a href="https://onlinecourses.nptel.ac.in/noc24_bt38/preview">https://onlinecourses.nptel.ac.in/noc24_bt38/preview</a>	8	2
10	Human Behaviour	<a href="https://onlinecourses.nptel.ac.in/noc24_hs35/preview">https://onlinecourses.nptel.ac.in/noc24_hs35/preview</a>	8	2
11	Applied Environmental Microbiology	<a href="https://onlinecourses.nptel.ac.in/noc24_ce04/preview">https://onlinecourses.nptel.ac.in/noc24_ce04/preview</a>	12	3
12	RNA Biology	<a href="https://nptel.ac.in/courses/102106097">https://nptel.ac.in/courses/102106097</a>	12	3
13	Biomechanics	<a href="https://onlinecourses.nptel.ac.in/noc24_bt06/preview">https://onlinecourses.nptel.ac.in/noc24_bt06/preview</a> <a href="https://nptel.ac.in/courses/102106098">https://nptel.ac.in/courses/102106098</a>	12	3
14	Enzyme Sciences	<a href="https://onlinecourses.nptel.ac.in/noc23_bt05/preview">https://onlinecourses.nptel.ac.in/noc23_bt05/preview</a>	12	3

*A.Pandey*  
25.01.2024

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	and Technology			
15	Metabolic Engineering	<a href="https://onlinecourses.nptel.ac.in/noc23_bt06/preview">https://onlinecourses.nptel.ac.in/noc23_bt06/preview</a>	8	2
16	Introduction to Professional Scientific Communication	<a href="https://onlinecourses.nptel.ac.in/noc23_bt09/preview">https://onlinecourses.nptel.ac.in/noc23_bt09/preview</a>	4	1
17	Bioengineering: An Interface with Biology and Medicine	<a href="https://onlinecourses.nptel.ac.in/noc23_bt19/preview">https://onlinecourses.nptel.ac.in/noc23_bt19/preview</a> <a href="https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-bt09/">https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-bt09/</a>	8	2
18	Interactomics: Basics & Applications	<a href="https://onlinecourses.nptel.ac.in/noc23_bt20/preview">https://onlinecourses.nptel.ac.in/noc23_bt20/preview</a>	12	3
19	Structural Biology	<a href="https://onlinecourses.nptel.ac.in/noc23_bt23/preview">https://onlinecourses.nptel.ac.in/noc23_bt23/preview</a>	12	3
20	Immunology	<a href="https://onlinecourses.swayam2.ac.in/cec23_bt13/preview">https://onlinecourses.swayam2.ac.in/cec23_bt13/preview</a>	12	3
21	Virology	<a href="https://onlinecourses.swayam2.ac.in/cec23_bt08/preview">https://onlinecourses.swayam2.ac.in/cec23_bt08/preview</a> <a href="https://swayam.gov.in/nd2_cec20_bt15/preview">https://swayam.gov.in/nd2_cec20_bt15/preview</a>	12	4
22	Nanotechnology in Agriculture	<a href="https://onlinecourses.nptel.ac.in/noc23_bt30/preview">https://onlinecourses.nptel.ac.in/noc23_bt30/preview</a>	8	2
23	Human Genetics	<a href="https://onlinecourses.swayam2.ac.in/cec23_bt09/preview">https://onlinecourses.swayam2.ac.in/cec23_bt09/preview</a> <a href="https://onlinecourses.swayam2.ac.in/cec23_bt05/preview">https://onlinecourses.swayam2.ac.in/cec23_bt05/preview</a>	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. In case, 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

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*25.01.2024*

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