



# WALJAT COLLEGE OF APPLIED SCIENCES

In Academic Partnership With  
**BIRLA INSTITUTE OF TECHNOLOGY**



**FORM NO: AC-01(B)**  
**COURSE OFFERING - SPRING SEMESTER**

**Department: Biotechnology & Chemical Engineering**

**Program: BE/BT Session & Academic Year: SP 18**

Sl. No.	SEM II	SEM IV	SEM VI	SEM VIII
1	EC2001 Principle of Electronics Engg	BT4021 Chemical Engineering II	BT6021 Bioseparation Engineering	BT 8005 Protein Engineering
2	MA2201 Advance Engg Mathematics	BT4023 Microbiology	BT6023 Plant & Agriculture Biotechnology	BT 8007 Bioenergy
3	CH2303 Environmental Science	BT4025 Immunology	BT6025 Food & Enzyme Technology	BT 8008 Functional Genomics
4	CS2301 Fundamentals of Data Structure	BT4027 Thermodynamics of Chemical & Biological Systems	BT6027 Process Measurement and Control	BT 8016 Mineral Biotechnology
5	ME2001 Principles of Mechanical Engg	HU4001 Foreign Language	<b>Breadth Subject-VI</b> PE6009 Engineering Economy	<b>Elective III</b> BT8011 Marine Biotechnology and Aquaculture
6	AM1201 Engineering Mechanics	BT4022 Chemical Engineering I Lab.	BT6022 Bioseparation Engineering Lab.	<b>Elective IV</b> BT8015 Legal and Social Issues in Biotechnology
7	CH1402 Chemistry Lab	BT4024 Microbiology Lab.	BT6024 Plant Cell Technology Lab.	BT 8006 Protein Engineering lab
8	EE3202//AM2202 Basic Electrical Engg Lab/ Engineering Mechanics Lab	BT4026 Immunology Lab.	BT6026 Enzyme Technology Lab.	BT 8009 Colloquim
9	EC2002 Basic Electronics Engg Lab	GA4002/4 /6/8 NCC/NSS/PT&Games/ Creative Arts		BT 8010 Project
10	CS2302 Data Structure Lab			
11	GA2/ 4/6/8 NCC / NSS / PT & Games / C. Arts			
<b>Load</b>	<b>Credits: 30</b>	<b>Credits: 23</b>	<b>Credits: 21</b>	<b>Units: 8</b>

Signature of HoD

## **Semester VIII**

### **Elective III**

BT8011 Marine Biotechnology and Aquaculture

BT8012 Pharmaceutical Biotechnology

BT8013 Biotechnology Management

MMI2107 Fiber Optics and Laser in Medicine

### **Elective IV**

BT8015 Legal and Social Issues in Biotechnology

BT8017 Bioremediation

BT8018 Animal and Stem Cell Technology

<b>List of Breadth Elective VI</b>	
MSH 1137	Economics
PE 6009	Engineering Economy
MSH1117	Financial Management