

J. J. COLLEGE OF ARTS AND SCIENCE (Autonomous)
Sivapuram Post, Pudukkottai.
P.G. & Research Department of Biotechnology

Bridge Course Syllabus (2020-2021)

UNIT 1

Introduction about the college and the department of Biotechnology, Bridging the gap between School and College education, Difference between Semester and non semester patterns.

UNIT 2

University –Bharathidasan University- relevant to courses and exams , Syllabus of the course (B.Sc Biotechnology), Major subject - Allied subjects - Part I, PartII, PartIII and part IV.

UNIT 3

CBCS system-Introduction and Benefits, Credit - Importance/ Advantages - How credits can be earned, Elective and other courses - SBE, MBE, NME, EVS, Gender studies and Value education, Semester Exam-Internal, External - Exam pattern, Model QP, Class attendance - Percentage – Condonation.

UNIT 4

NAAC,UGC, Autonomous, Deemed university, Research and Job Opportunities.

UNIT 5

General discipline-Manners-Morals, Behavioars, Respect to the Elders and Teachers, Role of students in college and society, Extracurricular activities- Cum-Skill development.

HEAD OF THE DEPARTMENT

Dr.G.MANIGANDAN, M.Sc., M.Phil., Ph.D., SET, NET,
Assistant Professor & Head,
PG & Research Department of Biotechnology,
J.J. College of Arts & Science (Autonomous),
Pudukkottai - 622 422.



PRINCIPAL

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PUDUKKOTTAI-622 422

**JJ COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)
SIVAPURAM; PUDUKKOTTAI
BRIDGE COURSE ATTENDANCE (2020-2023)**

Reg.no	Students name	19.10.2021	20.10.21	21.10.21	22.10.21	23.10.21	24.10.21
U20BT1001	Abirami M	P	p	p	p	p	P
U20BT1002	Aishwaryadevi D.	P	p	p	p	p	P
U20BT1003	Aishwarya.KP	P	p	p	p	p	P
U20BT1004	Aishwarya S.	AA	AA	p	p	p	P
U20BT1005	Ananthi.L	P	p	p	p	p	P
U20BT1006	Anu S.	P	p	p	p	p	P
U20BT1007	Arockiya Sowmiya.K	P	p	p	p	p	P
U20BT1008	Aruna.P	AA	p	p	p	p	P
U20BT1009	Aruna Devi	P	p	p	p	p	P
U20BT1010	Bagavathi.V	P	p	p	p	p	P
U20BT1012	Bhuvana D.	P	p	AA	p	p	P
U20BT1013	Ezhisai Nachiyar AR.	P	p	p	p	p	AA
U20BT1014	Gangadevi A.	P	p	p	p	p	P
U20BT1015	Geethaipriya.K	P	p	p	p	p	P
U20BT1016	Gokila S.	P	p	p	p	P	P
U20BT1017	Iniya.N	P	p	p	AA	P	P
U20BT1018	Janani.S	AA	p	p	p	p	P
U20BT1020	Kamini.B	P	P	p	p	p	P
U20BT1021	Karthiga G.	P	P	p	p	p	p
U20BT1022	Keerthana.K	P	P	p	p	p	p
U20BT1023	Kiruthika S	P	P	p	p	p	p
U20BT1024	Kiruthika S	P	P	p	p	p	p
U20BT1025	Krishnaveni.M	P	P	p	p	p	p
U20BT1026	Kurtheeshbegam.A	P	P	p	p	p	p
U20BT1027	Latha M.	P	P	p	p	p	p
U20BT1028	Madhumita	P	P	p	p	p	p
U20BT1029	Mahalakshmi.B	P	AA	p	p	p	p
U20BT1031	Monika	P	p	p	p	p	p
U20BT1032	Mukila.M	P	p	p	p	p	p
U20BT1033	Muthulakshmi.M	P	p	p	p	p	p
U20BT1034	Nagalakshmi A.	P	p	p	p	p	p
U20BT1035	Nanthini P.	P	p	p	p	p	p
U20BT1036	Ramani M	P	p	p	p	p	p
U20BT1037	Ramapriya P	P	p	p	p	p	p

G. Manigandan

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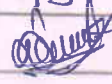

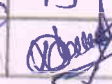

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U20BT1038	Sangeetha.R	P	P	AA	p	p	p
U20BT1039	Sathiyapriya T.	AA	p	P	p	p	p
U20BT1040	Snekavalli.S	P	p	P	p	p	p
U20BT1041	Srini.S	P	p	P	p	p	p
U20BT1042	Suba.M	P	p	AA	p	p	p
U20BT1043	Syedrafiya L.	P	P	p	p	p	p
U20BT1044	Tamilarasi R.	P	P	p	p	p	p
U20BT1045	Tharani G.	P	P	p	p	p	p
U20BT1046	Udhayakeerthana.S	P	P	p	p	p	p
U20BT1047	Uma V.	P	P	p	p	p	p
U20BT1048	Vinothini.B	P	AA	p	p	p	p
U20BT1049	Vithya P.	P	P	p	p	p	p
U20BT1050	Preethabavadharini	P	P	p	p	p	p
U20BT2001	Ahamed Fasith M.	P	P	p	p	p	p
U20BT2002	Akash (Ponvannan S.)	P	P	p	p	p	p
U20BT2003	Akilan.S	P	AA	p	p	p	p
U20BT2004	Arunkumar.R	P	p	p	P	p	p
U20BT2005	Arun.A	P	p	p	P	p	p
U20BT2006	Balakrishnan.S	P	p	p	P	p	p
U20BT2007	Chandrasekharan G.	P	p	p	P	p	p
U20BT2008	Chella Pandi A.	P	p	p	P	p	p
U20BT2009	Deepan.T	P	p	p	P	p	p
U20BT2010	Devanathan M.	P	p	p	P	p	p
U20BT2011	Dhanush.A	P	p	p	P	p	p
U20BT2012	Dhayajeyasimman	P	p	p	AA	p	p
U20BT2013	Gopinath S.	P	p	P	p	p	p
U20BT2014	Gowtham P.	P	p	P	p	p	p
U20BT2015	Hariharan.R	P	p	P	p	p	p
U20BT2016	Hariharapandiyan.A	P	p	P	p	p	p
U20BT2017	Ilancheral S.	P	p	AA	p	p	p
U20BT2018	Indira Prakash R.	P	p	p	p	p	p
U20BT2019	Jahir usain	P	p	p	p	p	p
U20BT2020	Janakaran.S	P	p	p	p	p	p
U20BT2021	Jeeva	P	p	p	p	p	p
U20BT2022	Kaif Ali.N	P	p	p	p	p	p
U20BT2023	Kumaradevan P.	P	p	p	p	p	p
U20BT2024	Manimuthu Raja.R	P	p	p	p	p	p
U20BT2025	Manoj	P	p	p	p	p	p
U20BT2026	Mohamed Rasik R.	AA	p	p	p	p	p



Dr. G. MANIGANDAN and SETHUPATI
 Head, Department of English
 J.J. College of Arts and Science
 Pudukkottai - 605 005

U20BT2027	Moses.D	P	p	p	p	p	p
U20BT2028	Mukesh	P	p	p	p	p	p
U20BT2029	Nagarajan.V	P	p	p	p	p	p
U20BT2030	Nandhakumar.M	P	p	p	p	p	p
U20BT2031	Narenthiran G.	P	p	p	p	p	p
U20BT2032	Pandiselvan.B	P	p	p	p	p	p
U20BT2033	Periyasamy.K	P	p	p	p	p	p
U20BT2034	Prakash.R	AA	p	p	p	p	p
U20BT2036	Salman.R	P	p	p	p	p	p
U20BT2037	Saravanan.R	P	p	p	p	p	p
U20BT2038	Sathiyasivam.R	P	AA	p	p	p	p
U20BT2039	Selvam T.	P	p	p	p	p	p
U20BT2040	Sheik Mohamed.A	P	p	p	p	p	p
U20BT2041	Solairaj	P	p	p	p	p	p
U20BT2042	Srikanth S.	P	p	p	p	p	p
U20BT2043	Stalin R.	AA	p	p	p	p	p
U20BT2044	Sudhakar M.	P	p	p	p	p	p
U20BT2045	Sudhakar S.	P	p	p	p	p	p
U20BT2046	Velmurugan.A	P	p	p	p	p	p
U20BT2047	Vimaladithyan P.	P	p	p	p	p	p
U20BT2048	Vijaya Prakash.M	p	p	p	p	p	p
No. OF ABSENTEES		07	04	02	02	0	01
No. OF PRESENTEES		88	91	93	93	95	94
SIGN. OF THE STAFF							



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Date: _____ Time: 2 hrs. Marks: 50

PART – A (ANSWER ALL THE QUESTIONS) (20×1=20)

1. Our college syllabus is being framed by?
(a) J.J. College University (b) Bharathiyar University (c) Anna University (d) Bharathidasan University
2. Tuberculosis caused by
(a) Bacteria (b) Virus (c) Algae (d) Fungi
3. *Aspergillus niger* is a
(a) Algae (b) Virus (c) Fungi (d) Bacteria
4. Which pattern does our college follows?
(a) Open University (b) Non – semester (c) Semester (d) Correspondent
5. Study of immunity
(a) Pathology (b) Immunology (c) Medicine (d) Microbiology
6. Causative agent of Amoebiasis is
(a) *Vibrio Cholerae* (b) *E.coli* (c) HIV (d) *Entamoeba histolytica*
7. Which one of the following is a plant hormone?
(a) Auxin (b) Gibberellins (c) Both a & b (d) None of the above

8. Which of the following is known as the power house of the cell?

- (a) Mitochondria (b) ATP (c) Chloroplast (d) Lysosome

9. First class with distinction means scoring?

- (a) Above 60% (b) 75% and above (c) Below 75% (d) 50-60%

10. Krebs cycle is also known as?

- (a) Calvin Cycle (b) Hill's reaction (c) TCA Cycle (d) Glycolysis

11. The pH range of an acid

- (a) 0 (b) 7 (c) 1 - 6.9 (d) 7.1 - 14

12. Who first developed vaccine for Rabies?

- (a) Robert Koch (b) Edward Jenner (c) Alexander Fleming (d) Louis Pasteur

13. Double helical structure of DNA was discovered by

- (a) Watson & Crick (b) Griffith (c) Mendel (d) Morgan

14. Sterilization is nothing but _____ of Microbes

- (a) Killing (b) Complete removal (c) Inactivation (d) Culturing

15. Blood cancer is referred as

- (a) Sarcoma (b) leukemia (c) Carcinoma (d) None of the above

16. Glucose is a

- (a) Amino acid (b) Protein (c) Carbohydrate (d) lipid

17. Numbers of chromosome in humans

- (a) 48 (b) 46 (c) 44 (d) 42

18. Color blindness caused due to the deficiency of

- (a) Vitamin A (b) Vitamin B (c) Vitamin K (d) Vitamin D

19. Name the pigment involved in photosynthesis

- (a) Chlorophyll (b) Xanthophylls (c) chloroplast (d) chromosome

20. Increase in earth's temperature is referred as

- (a) Acid rain (b) Green house effect (c) Hearing (d) Global warming

PART – B (ANSWER ALL THE QUESTIONS) (10×3=30)

1. What is bridge course?

2. AIDS

3. Define Biotechnology and explain about the scope of Biotechnology

4. What is Cloning?

5. List out the global environmental problems

6. Write short notes on laboratory rules and regulation

7. Draw the structure of plant and animal cell and label the parts

8. What is higher education and education at degree level?

9. Brief note on general discipline in Arts, letters, morals and behavior

10. Define Vaccine

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PART - A (ANSWER ALL THE QUESTIONS) (20×1=20)

1. Chloroplast present in
(a) Plant cell (b) Animal cell (c) Bacteria (d) Fungi
2. Study of insects
(a) Microbiology (b) Zoology (c) Biochemistry (d) Entomology
3. Immunology deals with
(a) Metabolism (b) Diseases (c) Immunity (d) None of the above
4. Who is father of Immunology?
(a) Robert Koch (b) Edward Jenner (c) Alexander Flemming (d) Louis Pasteur
5. Causative agent of typhoid
(a) *Vibrio cholera* (b) *E. Coli* (c) *Salmonella typhi* (d) *entamoeba histolytica*
6. Study of Microorganisms
(a) Pathology (b) Immunology (c) Microbiology (d) Zoology
7. DNA Double helix discovered by
(a) Watson and Crick (b) Alexander Flemming (c) Charles Darwin (d) Gregor Mendel
8. Type of RNA
(a) mRNA (b) tRNA (c) rRNA (d) All the above
9. Protein are made up of
(a) Amino Acid (b) Acetic Acid (c) Hydrochloric acid (d) Sugar
10. DNA is
(a) Deoxyribonucleic acid (b) ribonucleic acid (c) Phosphoric acid (d) all the above
11. Lab coat is otherwise called
(a) Operon (b) Apron (c) Gloves (d) Mask

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12. Name the material used for cultivation of microbes
(a) Growth factors (b) Medium (c) Nutrients (d) All the Above

13. IA is based on
(a) Attendance (b) Discipline (c) Model Exam Marks (d) All the above

14. Which pattern does our college follows
(a) Open University (b) Non - Semester (c) Semester (d) Correspondent

15. Which Council regulates Arts & Science College in india
(a) AICTE (b) AIMS (c) IIM (d) UGC

16. Glucose is a
(a) Vitamin (b) Protein (c) Lipid (d) Carbohydrate

17. pH of stomach is
(a) 1 (b) 2 (c) 3 (d) 4

18. r-DNA technology also known as
(a) Genetics (b) Genetic engineering (c) Tissue engineering (d) None of the above

19. *E.coli* is a
(a) Virus (b) Bacteria (c) Algae (d) Fungi

20. CBCS Mean
(a) Choice based credit system (b) credit based choice system (c) Credit based Credit system (d) Choice based criteria system

PART -B (ANSWER ALL THE QUESTIONS) (10×3=30)

21. What is Vitamin A?
22. Write down the various branches of biotechnology
23. Write the scope of biotechnology
24. What is GPA?
25. What are the components of a cell?
26. Differentiate the learning experience of the school and college.
27. What did you learn from the bridge course?
28. What are microbes?
29. Write short notes on sterilization
30. Define Cell biology

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J.J COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)
DEPARTMENT OF BIOTECHNOLOGY
ACADEMIC YEAR -2020-2021
BRIGDE COURSE MARK SHEET

S. No	Name of the Student	Pre test	Post test
1.	Abirami M	30	35
2.	Aishwaryadevi D.	25	29
3.	Aishwarya.KP	35	40
4.	Aishwarya S.	26	39
5.	Ananthi.L	21	27
6.	Anu S.	20	24
7.	Arockiya Sowmiya.K	31	34
8.	Aruna.P	26	39
9.	Aruna Devi	21	27
10.	Bagavathi.V	20	24
11.	Bhuvana D.	26	39
12.	Ezhisai Nachiyar AR.	35	40
13.	Gangadevi A.	20	24
14.	Geethaipriya.K	21	27
15.	Gokila S.	20	24
16.	Iniya.N	21	27
17.	Janani.S	21	27
18.	Kamini.B	20	24
19.	Karthiga G.	26	39
20.	Keerthana.K	21	27
21.	Kiruthika S	20	24
22.	Kiruthika S	26	39
23.	Krishnaveni.M	21	30
24.	Kurtheeshbegam.A	20	24
25.	Latha M.	32	27
26.	Madhumita	20	24
27.	Mahalakshmi.B	21	35
28.	Monika	21	27
29.	Mukila.M	30	32
30.	Muthulakshmi.M	25	35
31.	Nagalakshmi A.	26	26
32.	Nanthini P.	30	30
33.	Ramani M	30	32
34.	Ramapriya P	25	35



G. Jay
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J. Jayaram Sivaiah

74.	Moses.D	26	26
75.	Mukesh	30	35
76.	Nagarajan.V	25	29
77.	Nandhakumar.M	27	26
78.	Narenthiran G.	27	28
79.	Pandiselvan.B	22	25
80.	Periyasamy.K	26	30
81.	Prakash.R	25	30
82.	Salman.R	25	35
83.	Saravanan.R	26	26
84.	Sathiyasivam.R	25	35
85.	Selvam T.	26	26
86.	Sheik Mohamed.A	30	32
87.	Solairaj	25	35
88.	Srikanth S.	26	26
89.	Stalin R.	25	35
90.	Sudhakar M.	26	26
91.	Sudhakar S.	30	32
92.	Velmurugan.A	25	35
93.	Vimaladithyan P.	26	26
94.	Vijaya Prakash.M	20	22

Staff in charge: Dr. L Vivekanandan

Head of the Department

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Principal

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