



Department of Biotechnology

Courses focus on Employability, Entrepreneurship and Skill development

Particulars	Regulation 2015 - 2018	Regulation 2018 - 2021	Regulation 2021 - 2024
Courses Focusing Employability	8	15	30
Courses Focusing Skill Development	19	26	10
Courses Focusing Entrepreneurship	1	2	4
Total	28	43	44



Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2015 - 2018

S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
1	III	15UBTC31	Microbiology	YES			YES
2	III	15UBTC3P	Lab in Microbiology	YES			
3	III	15UBTA31	Biological Sciences		YES		YES
4	III	15UBTA3P	Lab in Biological Sciences	YES			
5	III	15UBTS31	Human Physiology		YES		
6	III	15UBTV31	Medicinal Plants	YES			YES
7	IV	15UBTC41	Molecular Biology and Molecular Genetics		YES		YES
8	IV	15UBTC4P	Lab in Molecular Biology and Molecular Genetics	YES			YES
9	IV	15UBTA41	Food Biotechnology		YES		YES
10	IV	15UBTA4P	Lab in Food Biotechnology		YES		
11	IV	15UBTO41	Biostatistics		YES		
12	IV	15UBTO42	Fundamentals of Drug Designing		YES		YES
13	V	15UBTC5P	Lab in Immunology and Immunotechnology	YES			YES
14	VI	15UBTC6P	Lab in Recombinant DNA Technology	YES			YES



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NAAC IV CYCLE

S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
15	VI	15UBTC6Q	Lab in Plant Tissue Culture	YES			YES
16	VI	15UBTO62	Biochemical Techniques			YES	YES
17	V	15UBTC51	Immunology and Immunotechnology		YES		YES
18	V	15UBTC52	Industrial Biotechnology		YES		YES
19	V	15UBTC53	Animal Biotechnology		YES		YES
20	V	15UBTO51	Bioinformatics		YES		YES
21	V	15UBTO52	Marine Biotechnology		YES		YES
22	V	15UBTS51	IPR, Bioethics & Biosafety		YES		YES
23	V	15UBTS52	Cancer Biology		YES		
24	VI	15UBTC61	Recombinant DNA Technology		YES		
25	VI	15UBTC62	Plant Biotechnology		YES		
26	VI	15UBTO61	Stem Cell Biology		YES		YES
27	VI	15UBTS61	Functional Genomics		YES		YES
28	VI	15UBTV61	Nano Biotechnology		YES		YES
Total				8	19	1	
Percentage				28.57%	67.85%	3.57%	

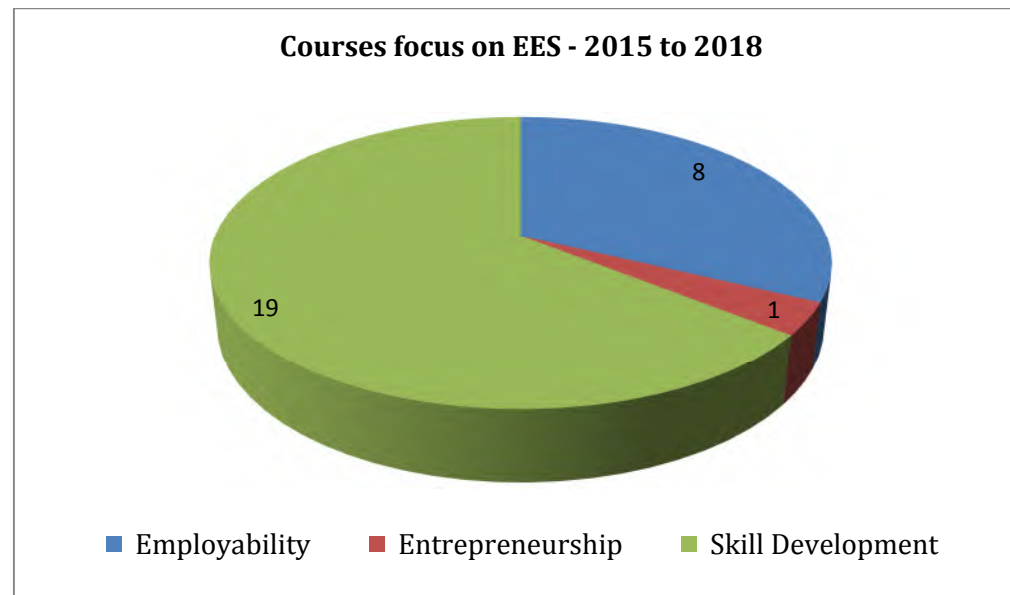
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Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2015 - 2018

Graphical Representation





Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2018 - 2021

S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
1	I	18UBTC11	Cell Biology		YES		YES
2	I	18UBTC1P	Lab in Cell Biology and Genetics	YES			
3	I	18UBTA11	General Chemistry-I		YES		YES
4	I	18UBTA1P	Chemistry practical - Volumetric analysis	YES			
5	I	18UBTN11	Human Diseases- Communicable Diseases		YES		YES
6	I	18UBTE11	Fundamentals of Genetics		YES		YES
7	II	18UBTC21	Biochemistry		YES		
8	II	18UBTC2P	Lab in Biochemistry	YES			YES
9	II	18UBTA21	General Chemistry-II		YES		
10	II	18UBTA2P	Chemistry practical - Organic analysis	YES			YES
11	II	18UBTN21	Human Diseases -		YES		

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S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
			Non Communicable Diseases				
12	II	18UBTE21	Human Physiology		YES		YES
13	III	18UBTC31	Microbiology	YES			YES
14	III	18UBTC3P	Lab in Microbiology	YES			
15	III	18UBTA31	Biological Sciences		YES		YES
16	III	18UBTA3P	Lab in Biological Sciences	YES			
17	III	18UBTS31	Basic Concepts of Biotechnology		YES		YES
18	III	18UBTV31	Medicinal Plants			YES	
19	IV	18UBTC41	Immunology and Immunotechnology	YES			YES
20	IV	18UBTC4P	Lab in Immunology and Immunotechnology	YES			
21	IV	18UBTA41	Food Biotechnology	YES			YES
22	IV	18UBTA4P	Lab in Food Biotechnology	YES			YES
23	IV	18UBTO41	Biostatistics		YES		
24	IV	18UBTO42	Fundamentals of Drug Designing		YES		YES
25	IV	18UBTO43	Consumer Affairs		YES		YES

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S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
26	V	18UBTC51	Plant Biotechnology		YES		YES
27	V	18UBTC52	Industrial Biotechnology		YES		YES
28	V	18UBTC53	Animal Biotechnology		YES		YES
29	V	18UBTC5P	Lab in Plant, Animal and Industrial Biotechnology	YES			
30	V	18UBTO51	Bioinformatics		YES		
31	V	18UBTO52	Genetically Modified Crops		YES		YES
32	V	18UBTO53	Natural Products (Secondary Metabolites)			YES	YES
33	V	18UBTS51	IPR, Bioethics and Biosafety		YES		YES
34	V	18UBTS52	Cancer Biology		YES		YES
35	VI	18UBTC61	Recombinant DNA Technology		YES		
36	VI	18UBTC62	Molecular Biology and Molecular Genetics		YES		YES
37	VI	18UBTC6P	Lab in Recombinant DNA technology	YES			YES

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S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
38	VI	18UBTC6Q	Lab in Molecular Biology and Molecular Genetics	YES			YES
39	VI	18UBTO61	Stem Cell Biology		YES		
40	VI	18UBTO62	Biochemical Techniques	YES			
41	VI	18UBTO63	DNA Fingerprinting		YES		YES
42	VI	18UBTS61	Functional Genomics		YES		
43	VI	18UBTV61	Nano Biotechnology		YES		YES
Total				15	26	2	
Percentage				34.88%	60.46%	4.65%	

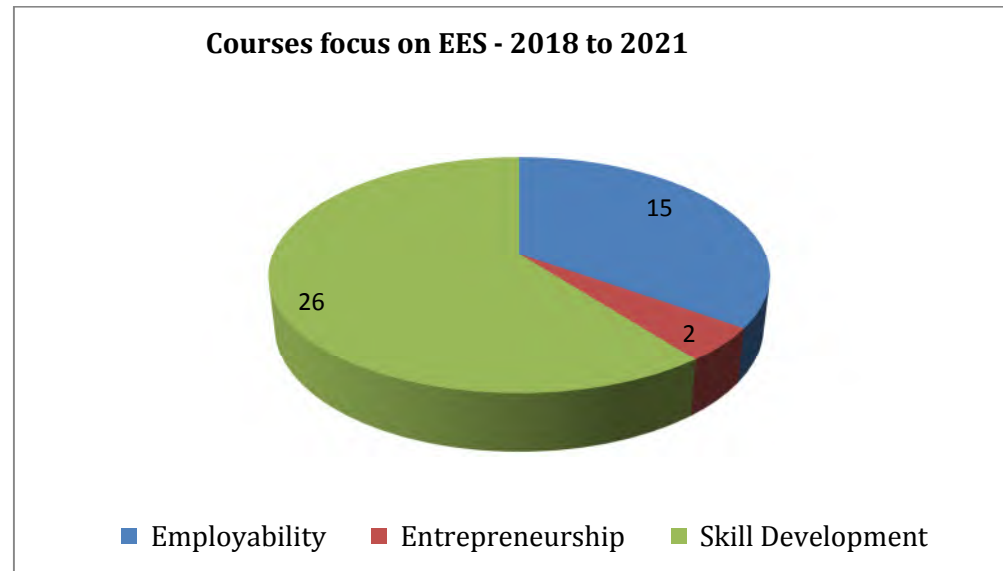
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Regulation 2018 - 2021

Graphical Representation





Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2021 - 2024

S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
1	I	21UBTC11	Cell Biology and Genetics		YES		YES
2	I	21UBTC1P	Practical: Cell Biology and Genetics			YES	YES
3	I	21UBTA11	Allied Chemistry - I	YES			
4	I	21UBTA1P	Practical: Volumetric analysis	YES			
5	I	21UBTS11	Biotechnology and Human Welfare	YES			YES
6	II	21UBTC21	Biochemistry and Metabolism	YES			
7	II	21UBTC2P	Practical: Biochemistry		YES		YES
8	II	21UBTA21	Allied Chemistry-II	YES			YES
9	II	21UBTA2P	Practical: Organic analysis	YES			
10	II	21UBTS21	Plant and Animal Physiology	YES			

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11	III	21UBTC31	Microbiology	YES			YES
12	III	21UBTC3P	Practical: Microbiology		YES		
13	III	21UBTA31	Biological Sciences	YES			YES
14	III	21UBTA3P	Practical: Biological Sciences			YES	YES
15	III	21UBTN31	Infectious Diseases	YES			YES
16	III	21UBTS31	Practical: Entrepreneurship in Biotechnology- I			YES	
17	IV	21UBTC41	Molecular Biology and Microbial Genetics	YES			YES
18	IV	21UBTC4P	Practical: Molecular Biology and Microbial Genetics			YES	
19	IV	21UBTA41	Bioanalytical Tools	YES			YES
20	IV	21UBTA4P	Practical: Bioanalytical Tools		YES		YES
21	IV	21UBTM41	Cell Culture Technologies	YES			YES
22	IV	21UBTM42	Computer Aided Drug Designing	YES			YES

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S.No.	Semester	Course Code	Course Name	Employability	Skill Development	Entrepreneurship	Contemporary Requirement
23	IV	21UBTN41	Mushroom Cultivation		YES		YES
24	IV	21UBTS41	Practical: Entrepreneurship in Biotechnology - II		YES		
25	V	21UBTC51	Plant Biotechnology	YES			YES
26	V	21UBTC52	Animal Biotechnology	YES			
27	V	21UBTC53	Food Biotechnology	YES			YES
28	V	21UBTC5P	Practical: Plant, Animal and Food Biotechnology		YES		YES
29	V	21UBTO51	Biostatistics	YES			
30	V	21UBTO52	Biophysics	YES			YES
31	V	21UBTO53	Bio-Instrumentation	YES			YES
32	V	21UBTO54	Genetically Modified Organisms	YES			
33	V	21UBTO55	Natural Products	YES			YES
34	V	21UBTO56	Medicinal Plants	YES			
35	V	21UBTS51	Nanobiotechnology and Cancer Biology	YES			YES
36	VI	21UBTC61	Recombinant DNA Technology and	YES			YES

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			Foresnsic Science				
37	VI	21UBTC62	Immunology and Immunotechnology		YES		YES
38	VI	21UBTC63	Industrial Biotechnology	YES			
39	VI	21UBTC6P	Practical: Recombinant DNA Technology and Industrial Biotechnology		YES		YES
40	VI	21UBTC6Q	Practical: Immunology and Immunotechnology		YES		YES
41	VI	21UBTO61	IPR, Bioethics and Biosafety	YES			YES
42	VI	21UBTO62	Evolutionary Biology	YES			YES
43	VI	21UBTO63	Stem Cell Biology	YES			YES
44	VI	21UBTS61	Bioinformatics and Functional Genomics	YES			YES
Total				30	10	4	
Percentage				68.18%	22.72%	9.09%	

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Regulation 2021 - 2024

Graphical Representation

