



Department of Chemistry

Courses focus on Employability, Entrepreneurship and Skill development

Particulars	Regulation 2015 - 2018	Regulation 2018 - 2021	Regulation 2021 - 2024
Papers Focusing Employability	20	29	32
Papers Focusing Skill Development	3	7	06
Papers Focusing Entrepreneurship	6	8	06
Total	29	44	44



Courses focus on Employability, Entrepreneurship and Skill development Regulation 2015 - 2018

S.No	Sem.	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
1	III	15UCHC31	Organic Chemistry	YES			
2	III	15UCHC32	Chemistry of metallic and nonmetallic compounds	YES			
3	III	15UCHA31	Physics- I	YES			
4	III	15UCHS31	Paper And Pulp Technology		YES		
5	III	15UCHV31	Match industry			YES	
6	IV	15UCHC41	Adsorption, chemical kinetics and solid State	YES			
7	IV	15UCHC4P	Volumetric Analysis & complex	YES			
8	IV	15UCHA41	Physics- II	YES			
9	IV	15UCHA4P	Practical in Physics	YES			
10	IV	15UCHO41	Green Chemistry	YES			
11	IV	15UCHO42	Medicinal Chemistry	YES			YES
12	V	15UCHC51	Organic Chemistry - II	YES			
13	V	15UCHC52	Inorganic chemistry - I	YES			
14	V	15UCHC53	Thermodynamics & Photo chemistry	YES			



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NAAC IV CYCLE

15	V	15UCHO51	Perfume and sweetening			YES	
16	V	15UCHO52	Polymer chemistry			YES	YES
17	V	15UCHS51	Nano Chemistry	YES			
18	V	15UCHS52	Drug Chemistry			YES	YES
19	V	15UVED51	Value Education	YES			
20	VI	15UCHC61	Organic Chemistry – III	YES			
21	VI	15UCHC62	Concept of Bio-inorganic, organometallic & Environmental chemistry	YES			YES
22	VI	15UCHC63	Electrochemistry, Quantum & Phase rule	YES			
23	VI	15UCHC6P	Organic qualitative analysis estimations(Lab)	YES			
24	VI	15UCHC6Q	Physical chemistry Practical	YES			
25	VI	15UCHC6R	Gravimetric & organic prep(Lab)	YES			
26	VI	15UCHO61	Chromatographic Techniques		YES		
27	VI	15UCHO62	Analytical chemistry		YES		YES
28	VI	15UCSS61	Sugar Chemistry			YES	
29	VI	15UCSV61	Pyrotech			YES	
			Total No of courses	20	3	6	
			Percentage	68.97%	10.35%	20.68%	

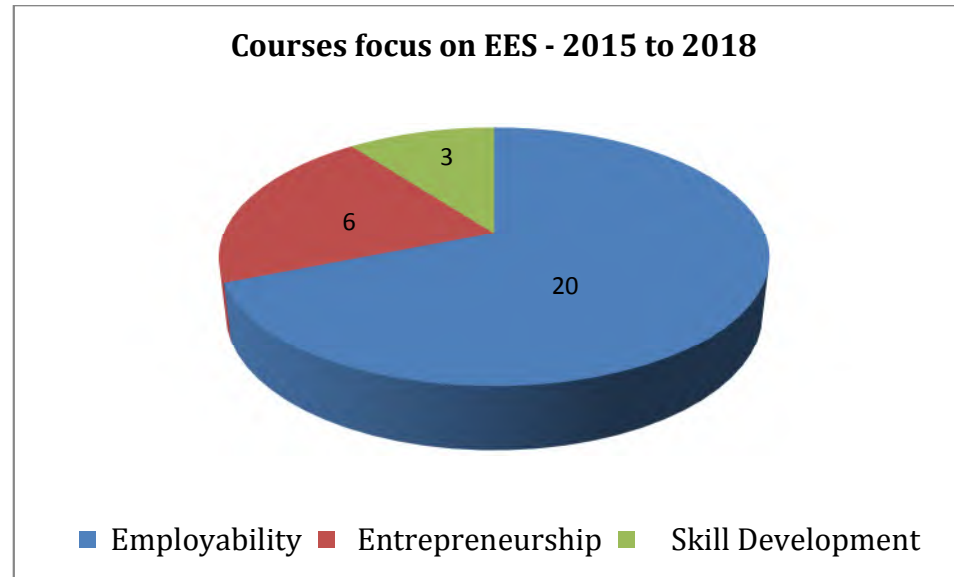
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Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2015 - 2018

Graphical Representation





Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2018 - 2021

S.No	Sem.	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
1	I	18UCHC11	Organic and Physical Chemistry-I	YES			YES
2	I	18UCHC12	Inorganic and Analytical	YES			
3	I	18UCHC1P	Physical Constant Determination and Organic Distillation(Lab)	YES			
4	I	18UCHA11	Mathematics-I	YES			
5	I	18UCHN11	Industrial Chemistry - I			YES	YES
6	I	18UCHE11	Glass Industry			YES	YES
7	II	18UCHC21	Organic and Physical Chemistry - II	YES			
8	II	18UCHC22	Inorganic and Analytical Chemistry-II	YES			
9	II	18UCHC2P	Volumetric Analysis (Lab)	YES			
10	II	18UCHA21	Mathematics - II	YES			
11	II	18UCHN21	Industrial Chemistry - II			YES	
12	II	18UCHE21	Cement Industry			YES	
13	III	18UCHC31	Organic and Physical Chemistry - III	YES			
14	III	18UCHC32	Inorganic and Analytical	YES			



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NAAC IV CYCLE

			Chemistry - III				
15	III	18UCHC3P	Semi Micro Qualitative Analysis (Lab)	YES			
16	III	18UCHA31	Physics- I	YES			
17	III	18UCHS31	Ceramic Industry			YES	
18	III	18UCHV31	Oils and Fats			YES	YES
19	IV	18UCHC41	Organic and Physical Chemistry IV	YES			
20	IV	18UCHC42	Inorganic and Analytical Chemistry IV	YES			
21	IV	18UCHC4P	Organic Salt Analysis(Lab)	YES			
22	IV	18UCHA41	Physics- II	YES			
23	IV	18UCHA4P	Practical in Physics	YES			
24	IV	18UCHO41	Applied Chemistry		YES		YES
25	IV	18UCHO42	Pharmaceutical Chemistry		YES		
26	V	18UCHC51	Organic Chemistry - I	YES			
27	V	18UCHC52	Inorganic chemistry - I	YES			
28	V	18UCHC53	Physical Chemistry - I	YES			
29	V	18UCHC5P	Physical Lab - I	YES			
30	V	18UCHC5Q	Organic Preparation and Estimation(Lab)	YES			
31	V	18UCHO51	Forensic Chemistry		YES		YES
32	V	18UCHO52	Supramolecular Chemistry	YES			
33	V	18UCHS51	Agricultural Chemistry		YES		YES
34	V	18UCHS52	Textile Chemistry		YES		

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NAAC IV CYCLE

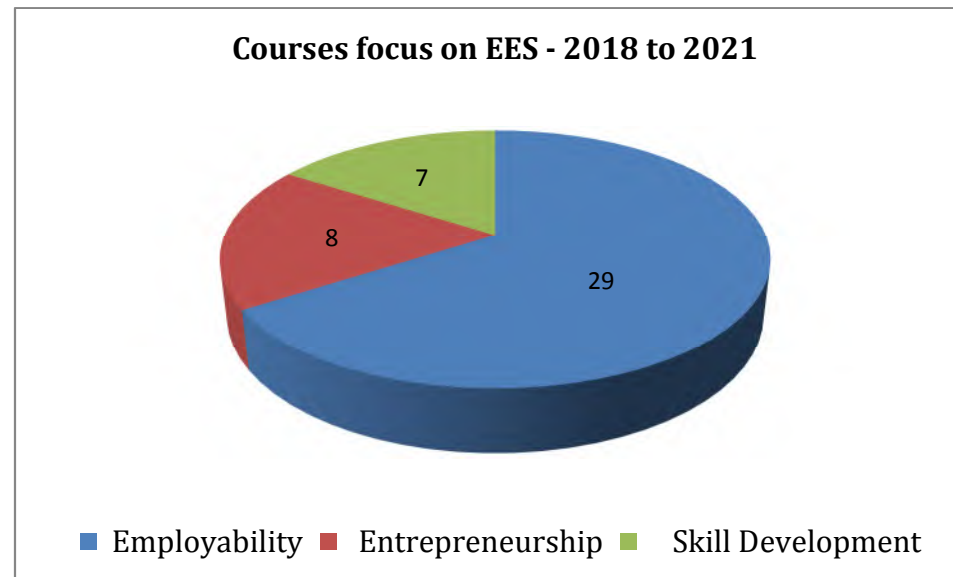
35	V	18UVED51	Value Education	YES			
36	VI	18UCHC61	Organic Chemistry- II	YES			
37	VI	18UCHC62	Inorganic Chemistry II	YES			
38	VI	18UCHC63	Physical Chemistry II	YES			
39	VI	18UCHC6P	Physical Lab II	YES			
40	VI	18UCHC6Q	Gravimetry and Complex Preparation(lab)	YES			
41	VI	18UCH061	Food and Nutrition Chemistry		YES		YES
42	VI	18UCH062	Biochemistry		YES		
43	VI	18UCHS61	Matches and Fireworks			YES	
44	VI	18UCHV61	Printing technology			YES	
			Total No of courses	29	7	8	
			Percentage	65.90%	18.18%	15.90%	



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Regulation 2018 - 2021

Graphical Representation





Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2021 - 2024

S.No	Sem.	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
1	I	21UCHC11	General Chemistry – I	YES			
2	I	21UCHC1P	Practical: Organic and Inorganic Chemistry	YES			
3	I	21UCHA11	Mathematics – I	YES			
4	I	21UCHS11	Science Communication and Popularization		YES		
5	II	21UCHC21	General Chemistry – II	YES			
6	II	21UCHC2P	Practical: Organic and Physical Chemistry	YES			
7	II	21UCHA21	Mathematics – II	YES			
8	II	21UCHS21	Biofertilizers		YES		YES
9	II	21UVED21	Value Education	YES			
10	III	21UCHC31	General Chemistry – III	YES			
11	III	21UCHC3P	Practical: Organic and Physical Chemistry	YES			
12	III	21UCHA31	Physics – I	YES			
13	III	21UCHA3P	Practical : Physics – I	YES			
14	III	21UCHN31	Chemistry in day-to-			YES	



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NAAC IV CYCLE

			day life				
15	III	21UCHS31	Computer Application in Chemistry			YES	YES
16	IV	21UCHC41	General Chemistry – IV	YES			
17	IV	21UCHC4P	Inorganic Semi-micro Qualitative Analysis	YES			
18	IV	21UCHA41	Physics – II	YES			
19	IV	21UCHA4P	Practical : Physics – II	YES			
20	IV	21UCHSM41	Introductory Organic Chemistry	YES			
21	IV	21UCHSM42	Quantitative Methods in Chemistry	YES			
22	IV	21UCHN41	Industrial Chemistry		YES		
23	IV	21UCHS41	Fermentation Science and Technology		YES		YES
24	V	21UCHC51	Organic Chemistry – I	YES			
25	V	21UCHC52	Inorganic Chemistry – I	YES			
26	V	21UCHC5P	Practical: Physical Chemistry - I	YES			
27	V	21UCHC5Q	Practical: Organic Analysis and Estimation	YES			
28	V	21UCHO51	Electrochemistry	YES			
29	V	21UCHO52	Photochemistry	YES			
30	V	21UCHO53	Geochemistry	YES			

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NAAC IV CYCLE

31	V	21UCH054	Biochemistry	YES			
32	V	21UCH055	Environmental Chemistry	YES			
33	V	21UCH056	Nanochemistry			YES	YES
34	V	21UCHS51	Personality Development			YES	
35	V	21UCHJ51	Internship		YES		
36	VI	21UCHC61	Organic Chemistry – II	YES			
37	VI	21UCHC62	Inorganic Chemistry – II	YES			
38	VI	21UCHC63	Physical Chemistry	YES			
39	VI	21UCHC6P	Practical: Physical Chemistry – II	YES			
40	VI	21UCHC6Q	Practical: Gravimetry and Complex Preparation	YES			
41	VI	21UCHO61	Organometallic Chemistry and Biological role of metals	YES			
42	VI	21UCHO62	Analytical Chemistry			YES	
43	VI	21UCHO63	Medicinal Chemistry			YES	YES
44	VI	21UCHS61	Analytical Clinical Biochemistry		YES		YES
			Total No of courses	32	6	6	
			Percentage	72.7%	13.6%	13.6%	

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