



### Department of Physics

#### Courses focus on Employability, Entrepreneurship and Skill development

Particulars	Regulation 2015 - 2018	Regulation 2018 - 2021	Regulation 2021 - 2024
Courses Focusing Employability	6	10	8
Courses Focusing Skill Development	19	26	19
Courses Focusing Entrepreneurship	7	7	16
<b>Total</b>	<b>32</b>	<b>43</b>	<b>43</b>



### 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	15UPHC31	Optics			YES	
2.	III	15UPHC32	Electricity		YES		
3.	III	15UPHA31	Allied Chemistry - I	YES			
4.	III	15UPHA3P	Allied Chemistry Practical		YES		
5.	III	15UPHS31	Thermal Physics			YES	
6.	III	15UPHV31	Physics of Household Appliances - I	YES			
7.	IV	15UPHC41	Electromagnetism		YES		
8.	IV	15UPHC42	Spectroscopy and Laser Physics		YES		
9.	IV	15UPHC4P	Major Physics Practical - II		YES		
10.	IV	15UPHA41	Allied Chemistry - II	YES			
11.	IV	15UPHA4P	Allied Chemistry Practical		YES		
12.	IV	15UPHO41	Programming in C	YES			
13.	IV	15UPHO42	Statistical Mechanics		YES		

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## NAAC IV CYCLE

S.No.	Semester	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
14.	IV	15UPH043	Mathematical Physics		YES		
15.	V	15UPHC51	Atomic Physics and Quantum Mechanics		YES		
16.	V	15UPHC52	Analog Electronics			YES	
17.	V	15UPHC53	Classical Mechanics		YES		
18.	V	15UPH051	Programming in C++		YES		
19.	V	15UPH052	Astrophysics		YES		
20.	V	15UPH053	Optoelectronics			YES	
21.	V	15UPHS51	Medical Physics	YES			
22.	V	15UPHS52	Energy Physics-I			YES	
23.	VI	15UPHC61	Condensed Matter Physics		YES		
24.	VI	15UPHC62	Nuclear Physics		YES		
25.	VI	15UPHC63	Digital Electronics			YES	
26.	VI	15UPHC6P	Major Physics Practical - III		YES		
27.	VI	15UPHC6Q	Major Physics Practical - IV		YES		
28.	VI	15UPH061	Electronic Communication		YES		
29.	VI	15UPH062	Microprocessor Fundamentals		YES		
30.	VI	15UPH063	Nanotechnology and		YES		

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## NAAC IV CYCLE

S.No.	Semester	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
			Instrumentation				
31.	VI	15UPHV61	Physics of Household appliances – II	YES			
32.	VI	15UPHS61	Energy Physics- II			YES	
<b>Total No. of Courses</b>				<b>6</b>	<b>19</b>	<b>7</b>	
<b>Percentage</b>				<b>18.75%</b>	<b>59.37%</b>	<b>21.87%</b>	

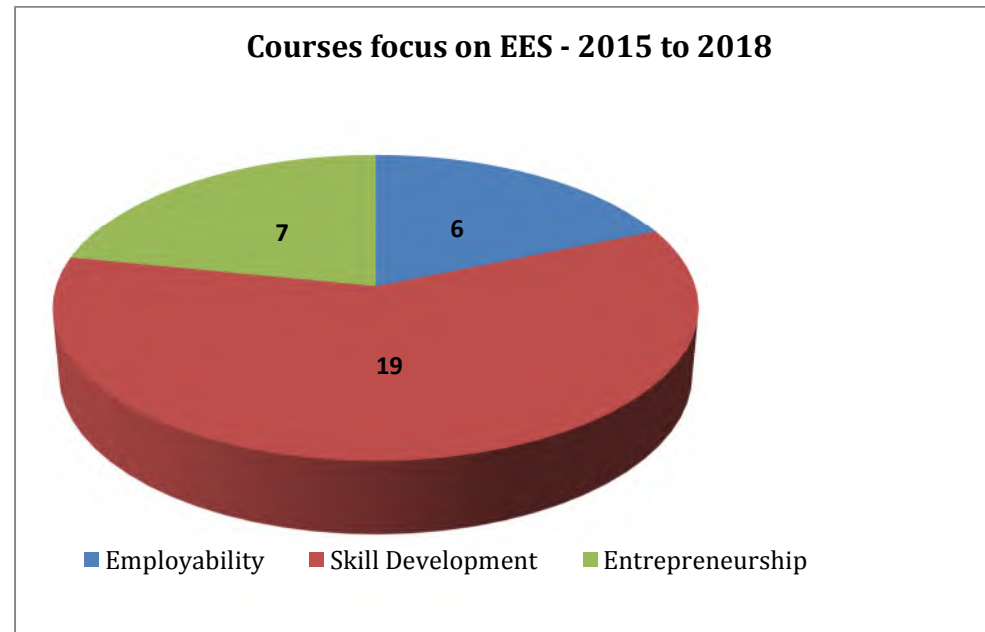
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### Courses focus on Employability, Entrepreneurship and Skill development

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	18UPHC11	Foundation Course: Basic Physics		YES		
2.	I	18UPHC12	Properties of Matter			YES	YES
3.	I	18UPHA11	Mathematics - I		YES		
4.	I	18UPHN11	Physics in Everyday Life - I		YES		
5.	I	18UPHE11	Introduction to PC Software		YES		YES
6.	II	18UPHC21	Mechanics and Sound		YES		
7.	II	18UPHC22	Gravitation and Relativity		YES		
8.	II	18UPHA21	Mathematics - II		YES		
9.	II	18UPHA2P	Major Physics Practical - I		YES		
10.	II	18UPHN21	Physics in Everyday Life - II		YES		
11.	II	18UPHE21	Photography	YES			





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## NAAC IV CYCLE

S.No.	Semester	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
12.	III	18UPHC31	Optics			YES	YES
13.	III	18UPHC32	Electricity and Electromagnetism		YES		YES
14.	III	18UPHA31	General Chemistry - I	YES			
15.	III	18UPHA3P	Chemistry Practical - Volumetric analysis		YES		
16.	III	18UPHS31	Thermal Physics			YES	
17.	III	18UPHV31	Physics of Household Appliances - I	YES			
18.	IV	18UPHC41	Mathematical Physics		YES		YES
19.	IV	18UPHC42	Spectroscopy and Laser Physics		YES		
20.	IV	18UPHC4P	Major Physics Practical - II		YES		
21.	IV	18UPHA41	General Chemistry - II	YES			
22.	IV	18UPHA4P	Chemistry Practical - Organic analysis		YES		
23.	IV	18UPHO41	Programming in C	YES			
24.	IV	18UPHO42	Consumer Affairs	YES			YES
25.	IV	18UPHO43	Statistical Mechanics		YES		
26.	V	18UPHC51	Atomic Physics and Quantum Mechanics		YES		YES

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S.No.	Semester	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
27.	V	18UPHC52	Analog Electronics			YES	
28.	V	18UPHC53	Classical Mechanics		YES		
29.	V	18UPHO51	Optoelectronics			YES	YES
30.	V	18UPHO52	Astrophysics		YES		
31.	V	18UPHO53	Programming in C++	YES			
32.	V	18UPHS51	Medical Physics	YES			
33.	V	18UPHS52	Energy Physics-I			YES	
34.	VI	18UPHC61	Condensed Matter Physics		YES		
35.	VI	18UPHC62	Nuclear Physics		YES		
36.	VI	18UPHC63	Digital Electronics			YES	
37.	VI	18UPHC6P	Major Physics Practical - III		YES		
38.	VI	18UPHC6Q	Major Physics Practical - IV		YES		
39.	VI	18UPHO61	Nanotechnology and Instrumentation		YES		YES
40.	VI	18UPHO62	Microprocessor Fundamentals		YES		
41.	VI	18UPHO63	Electronic Communication		YES		

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## NAAC IV CYCLE

S.No.	Semester	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
42.	VI	18UPHV61	Physics of Household appliances - II	YES			
43.	VI	18UPHS61	Energy Physics- II	YES			
<b>Total No. of Courses</b>				<b>10</b>	<b>26</b>	<b>7</b>	
<b>Percentage</b>				<b>23.25%</b>	<b>60.46%</b>	<b>16.27%</b>	

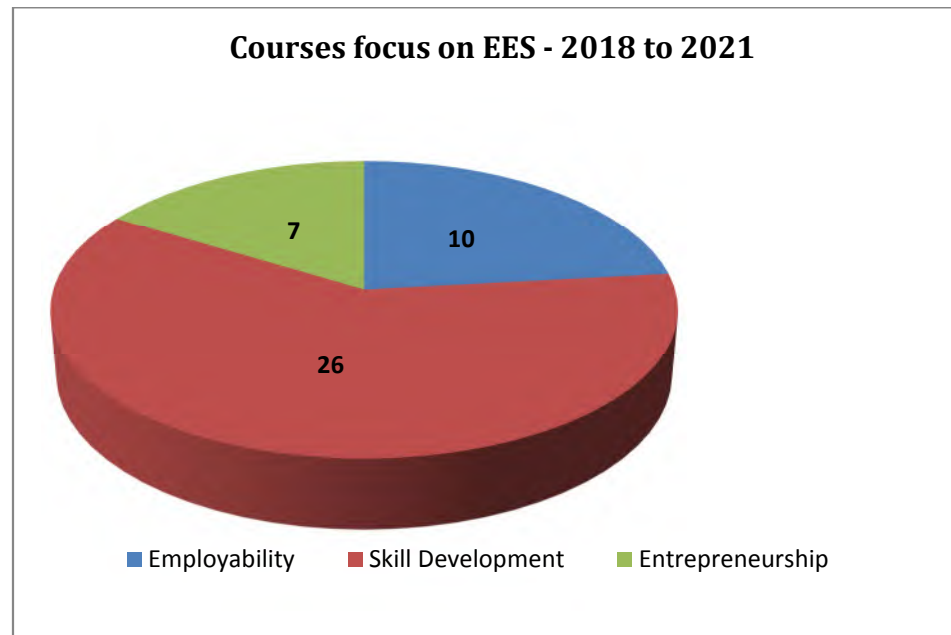
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### Courses focus on Employability, Entrepreneurship and Skill development

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	21UPHC11	Properties of Matter and Mechanics			YES	-
2.	I	21UPHC1P	Practical - Properties of Matter and Mechanics		YES		YES
3.	I	21UPHA11	Mathematics - I		YES		-
4.	I	21UPHS1P	Practical - Introduction to Office Suite and Web Search		YES		YES
5.	II	21UPHC21	Heat and Thermodynamics			YES	YES
6.	II	21UPHC2P	Practical - Thermal Physics		YES		YES
7.	II	21UPHA21	Mathematics - II		YES		-
8.	II	21UPHS21	Sound and Ultrasonics		YES		YES
9.	III	21UPHC31	Electricity and Electromagnetism			YES	-
10.	III	21UPHC3P	Practical - Electricity and Electromagnetism		YES		YES



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S.No.	Semester	Course Code	Course Name	Employability	Skill development	Entrepreneurship	Contemporary Requirement
11.	III	21UPHA31	Chemistry - I		YES		-
12.	III	21UPHA3P	Practical - Volumetric analysis		YES		-
13.	III	21UPHN31	Physics of Household Appliances	YES			-
14.	III	21UPHS31	Electrical Wiring and Home Appliances	YES			YES
15.	IV	21UPHC41	Optics and Spectroscopy			YES	-
16.	IV	21UPHC4P	Practical - Optics		YES		YES
17.	IV	21UPHA41	Chemistry - II		YES		-
18.	IV	21UPHA4P	Practical - Organic analysis		YES		-
19.	IV	21UPHM41	Nature and Properties of Materials			YES	YES
20.	IV	21UPHM42	Soft Skill Development		YES		YES
21.	IV	21UPHN41	Non-Conventional Energy Resources			YES	YES
22.	IV	21UPHS41	Instrumentation Skill	YES			YES
23.	V	21UPHC51	Atomic Physics			YES	YES
24.	V	21UPHC52	Analog Electronics			YES	-
25.	V	21UPHC53	Relativity and Quantum Mechanics			YES	YES
26.	V	21UPHC5P	Practical -General		YES		YES

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			Physics				
27.	V	21UPH051	Classical and Statistical Mechanics			YES	YES
28.	V	21UPH052	Astrophysics		YES		
29.	V	21UPH053	Basis of Data Communications and Programming in C	YES			YES
30.	V	21UPH054	Mathematical Physics		YES		YES
31.	V	21UPH055	Mathematical Methods		YES		YES
32.	V	21UPH056	Energy Physics			YES	YES
33.	V	21UPHS51	Fibre Optics	YES			YES
34.	V	21UPHJ51	Internship	YES			YES
35.	VI	21UPHC61	Solid State Physics			YES	-
36.	VI	21UPHC62	Nuclear Physics			YES	YES
37.	VI	21UPHC63	Digital and Communication Electronics			YES	YES
38.	VI	21UPHJ61	Project	YES			YES
39.	VI	21UPHC6P	Practical -Electronics		YES		YES
40.	VI	21UPH061	Nano Physics			YES	-
41.	VI	21UPH062	Microprocessor Fundamentals		YES		YES
42.	VI	21UPH063	Medical Physics	YES			YES

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43.	VI	21UPHS61	Solar Photovoltaics			YES	YES
<b>Total No. of Courses</b>				<b>8</b>	<b>19</b>	<b>16</b>	
<b>Percentage</b>				<b>18.60%</b>	<b>44.18%</b>	<b>37.20%</b>	





### Courses focus on Employability, Entrepreneurship and Skill development

Regulation 2021 - 2024

Graphical Representation

