

Name of the University: Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur

Swayam Courses Offered in the Degree programme (2025-26): Odd Semester

Annexure I

Sl.No	Name of Courses	Level	Credit	Category
<b>Department of Physics</b>				
1.	Physics through computational thinking	UG	2	AEC
2.	Properties of Materials	UG	2	AEC
3.	Energy Resources, economics and sustainability	UG	2	AEC
4.	Experimental Physics-II	UG	3	SEC
5.	Physics of Biological systems	PG	3	PG electives
6.	Fluid Dynamics for Astrophysics	PG	3	PG electives
7.	Research Ethics and Plagiarism	PhD	2	Pre-PhD courses
<b>Department of Ancient History</b>				
8.	Introduction to Ancient Indian Architecture	PG	3	Elective
<b>Department of Economics</b>				
9.	Microeconomics for beginners	UG	3	Elective/AEC
10.	Data Analysis	UG	4	Elective/AEC
<b>Department of Mathematics and Statistics</b>				
11.	An introduction to point-set-topology part-I	PG	3	Elective
12.	Functional analysis	PG	3	Elective
13.	Fourier analysis and its application	PG	3	Elective
14.	Metrics spaces and complex analysis I	UG	5	Elective
15.	Differential equations	UG	4	Elective
16.	Introduction to operations research	UG	2	Elective
17.	Foundation of Data Science	UG	3	SEC
18.	A Basic Course in Machine Learning for All	UG/PG		NCrF Level 6.5
<b>Department of Philosophy</b>				
19.	सामाजिक और राजनीतिक दर्शन	PG	4	Elective
<b>Department of Computer Science</b>				
20.	Art of C Programming	UG	4	Core
<b>Department of Electronics</b>				
21.	Principles of Digital communication	PG	3	Elective
<b>Institute of Agriculture and Natural Sciences</b>				
22.	Organic Farming Practices and Certification	UG	2	Elective
23.	Vocational: Beekeeping	UG	10	Elective
24.	Water Quality Management Practices	UG	3	Elective
25.	Soil and Water Conservation Engineering	UG	3	Elective
26.	Plant Biochemistry and Biotechnology	UG	4	Elective
27.	Basics of Crop Breeding and Plant Biotechnology	UG	3	Elective
28.	Communication and Extension for Sustainable Development	UG	4	Elective
29.	Diseases of Horticultural Crops and their Management	UG	3	Elective
30.	Agricultural Economics	UG	4	Elective
31.	Nanotechnology in Agriculture	UG	2	Elective
32.	Indian Agricultural Development	UG	4	Elective
33.	Economic Viability of Indian Agriculture	UG	4	Elective
34.	Certificate Course in Environmental Sustainability	UG	4	Elective

35.	Mushroom Production	UG	10	Elective
36.	Post-Harvest Management of Fruits and Vegetables	UG	4	Elective
37.	Animal Waste Management	UG	1	Elective
38.	Soil Science and Technology	PG	3	Elective
39.	Basics of Crop Breeding and Plant Biotechnology	PG	3	Elective
40.	Plant Physiology	PG	4	Elective
41.	Introduction to Statistics	PG	3	Elective
42.	Advanced Soil Mechanics	PG	3	Elective
43.	Research Methods in Social Sciences and Agricultural Extension	PG	2	Elective

#### Department of Psychology

44.	Abnormal Psychology	UG	6	Core
45.	Counseling Psychology	UG	6	Core
46.	Community Psychology	UG	4	Core
47.	Emotional Intelligence	UG	2	AEC
48.	Introduction to Psychology	UG	2	AEC

#### Institute of Engineering & Technology

49.	Cyber Security and Privacy	UG	3	Elective
50.	Computer Vision	UG	3	Elective
51.	Cloud Computing	UG	3	Elective
52.	Artificial Intelligence : Search Methods For Problem Solving	UG	3	Elective
53.	Parameterized Algorithms	UG	3	Elective
54.	Social Networks	UG	3	Elective
55.	Computational Complexity	UG	3	Elective
56.	Advanced Distributed Systems	UG	3	Elective
57.	Statistical Learning For Reliability Analysis	UG	3	Elective
58.	Ethical Hacking	UG	3	Elective
59.	Software Testing	UG	3	Elective
60.	Deep Learning for Computer Vision	UG	3	Elective
61.	Privacy And Security In Online Social Media	UG	3	Elective
62.	Advanced Computer Architecture	UG	3	Elective
63.	Hardware Security	UG	3	Elective
64.	GPU Architectures and Programming	UG	3	Elective
65.	Foundations of Cyber Physical Systems	UG	3	Elective
66.	Selected Topics in Algorithms	UG	3	Elective
67.	Affective Computing	UG	3	Elective
68.	Introduction To Internet of Things	UG	3	Elective
69.	Data Analytics with Python	UG	3	Elective
70.	Foundations Cryptography of	UG	3	Elective
71.	Reinforcement Learning	UG	3	Elective
72.	Deep Learning	UG	3	Elective
73.	Natural Language Processing	UG	3	Elective
74.	Blockchain and its Applications	UG	3	Elective
75.	Multirate DSP	UG	3	Elective
76.	Circuit Analysis for Analog Designers	UG	3	Elective
77.	Optical Fiber Sensors	UG	3	Elective
78.	Microwave Engineering	UG	3	Elective
79.	Principles And Techniques of Modern Radar Systems	UG	3	Elective

80.	Introduction To Wireless and Cellular Communications	UG	3	Elective
81.	Fiber Optic Communication Technology	UG	3	Elective
82.	C-Based VLSI Design	UG	3	Elective
83.	Digital Image Processing	UG	3	Elective
84.	Machine Learning for Engineering and science applications	UG	3	Elective
85.	Optical Wireless Communications for Beyond 5G Networks and IoT	UG	3	Elective
86.	An Introduction to Artificial Intelligence	UG	3	Elective
<b>Department of Business Administration</b>				
87.	English Communication	UG	2	AEC
88.	Enhancing Soft Skills and Personality	UG	2	AEC
89.	Complete guide for campus interviews: Step by step preparation for Internships and Full-time jobs	UG	1	AEC
<b>Department of Commerce</b>				
90.	English Communication	UG	2	AEC
91.	Enhancing Soft Skills and Personality	UG	2	AEC
92.	Complete guide for campus interviews: Step by step preparation for Internships and Full-time jobs	UG	1	AEC
93.	Fundamentals of Banking and Insurance	UG	2	AEC
<b>Department of Biotechnology</b>				
94.	Computational Genomics	PG	3	Elective
95.	Comprehensive Molecular Diagnostics and Advanced Gene Expression Analysis	PG	3	Elective
96.	Probability and Statistics	PG	3	Core
97.	Algorithms in Computational Biology and Sequence Analysis	PG	3	Elective
98.	Computational Systems Biology	PG	3	Elective
99.	Interactomics: Basics & Applications	PG	3	Elective
100.	Introduction to Complex Biological Systems	PG	3	Elective
<b>Department of Botany and Microbiology</b>				
101.	Nanotechnology in Agriculture	PG	3	Elective
102.	Climate Change Science	PG	3	Elective
103.	Biostatistics and Design of experiments	UG	2	AEC
104.	Cell Biology: Cellular organization, division and processes	UG	2	Elective
105.	Microbial Biotechnology	PG	3	Elective
106.	Food Fundamental and Chemistry	PG	4	Elective
107.	Food Microbiology	UG	4	Elective/Core
108.	RNA Biology	PG	3	Elective
<b>Department of Modern and Medieval History</b>				
109.	History of India (1206-1550)	UG	6	Core
110.	History of Modern Europe (1780-1939)	UG	3	Core
111.	Research Methodology in India	PG	5	Core
<b>Department of Sanskrit</b>				
112.	संस्कृत भाषा एवं साहित्य	UG	6	Core/SEC
<b>Department of Education</b>				
113.	Soft Skill Development	UG	2	SEC
114.	Research Methodology	B.Ed/M.Ed /PG	2	Core

115.	Research Methodology in Natural Science	B.Ed/M.Ed /PG	3	Core
116.	Qualitative Research Methods and Research	B.Ed/M.Ed /PG	3	Core
<b>Department of Home sciences</b>				
117.	Personality Development and Communication Skills	UG	3	SEC
118.	Public Health Management	UG	3	SEC
<b>Zoology</b>				
119.	Introduction to Professional Scientific Communication	PG	3	Elective
120.	Cell Biology: Cellular organization, division and processes	PG	2	Elective
121.	Climate Change Science	PG	3	Elective
122.	Host-Pathogen Interaction (Immunology)	UG	3	Elective
123.	Fundamentals of Ecology	UG/PG	3	Elective
124.	Enzyme Sciences and Technology	PG3	3	Elective
125.	Biostatistics and Design of experiments	UG	2	AEC
126.	Human Physiology	PG	3	Elective

### Procedure for Credit Transfer

1. The department's SWAYAM mentor, with the approval of the Board of Studies (BoS), will notify the list of eligible SWAYAM courses for credit transfer.
2. Notifications will be made in June and November every year, prior to the forthcoming semester.

### Key Points to Note

- Students must choose from the notified list of SWAYAM courses.
- Credit transfer will be subject to the University's approval and guidelines.
- The department's SWAYAM mentor and BoS will oversee the credit transfer process.

We have received the above list from the Department Board of Studies (in anticipation) to dates through SWAYAM Mentors.



## दीनदयाल उपाध्याय गोरखपुर विश्वविद्यालय, गोरखपुर

दिनांक. 24.02.2025

पत्रांक: 1352 / कमेटी / 2025

प्रतिलिपि: निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित -

1. समस्त संकायाध्यक्ष/विभागाध्यक्ष, को इस आशय से प्रेषित कि शासन द्वारा प्रस्तावित किये गये पाठ्यक्रमों के सम्बन्ध में अग्रेतर कार्यवाही करने का कष्ट करें।
2. प्राचार्य/प्राचार्या, सम्बद्ध राजकीय, अनुदानित एवं स्ववित्तपोषित महाविद्यालय।
3. समन्वयक आई0टी0सी0 सेल को इस आशय से प्रेषित कि उक्त सूचना को सम्बद्ध महाविद्यालयों की लॉगिन में अपलोड कराने के साथ-साथ विश्वविद्यालय की वेबसाइट पर अपलोड कराने का कष्ट करें।
4. प्रभारी, सम्बद्धता अनुभाग, दी0द0उ0 गोरखपुर विश्वविद्यालय, गोरखपुर।
5. परीक्षा नियंत्रक, दी0द0उ0 गोरखपुर विश्वविद्यालय, गोरखपुर।
6. प्रभारी सचिव कुलपति, मा0 कुलपति जी के अवलोकनार्थ।
7. वै0स0 कुलसचिव

कुलसचिव  
24.2.25