

## Parul University

### Programmes that specifically teach on climate science and/or Environmental Sustainability

Programme Name	Relevance to Climate Science and Environmental Sustainability	Year of Introduction
Bachelor of Science in Environmental Science	Core focus on climate systems, pollution control, sustainability practices, biodiversity conservation, and mitigation of environmental degradation.	2018-19
Master of Science in Environmental Science	In-depth focus on climate modeling, environmental impact assessment, sustainable development policies, and ecosystem management, aligning directly with sustainability goals.	2020-21
Bachelor of Science in Geology	Includes study of Earth systems, natural resources, and environmental impacts of geological processes, contributing to understanding climate change and sustainable resource management.	2018-19
Master of Science in Geology	Advanced study of Earth processes, geohazards, and environmental changes with direct relevance to understanding and mitigating climate-related risks and promoting sustainability.	2018-19
Bachelor of Science (Hons.) in Agriculture	Emphasizes sustainable agriculture, climate-resilient crops, soil health, water management, and eco-friendly farming practices critical to environmental sustainability and food security.	2016-17
Bachelor of Architecture	Includes sustainable building design, energy efficiency, and urban environmental planning.	2015-16
Masters of Planning	Strong emphasis on environmental planning, sustainable development, and climate-resilient infrastructure.	2016-17
Bachelor of Technology in Agricultural Engineering	Covers sustainable farming practices, soil and water conservation, renewable energy applications in agriculture, and resource-efficient technologies critical for environmental sustainability.	2015-16
Bachelor of Technology in Civil Engineering	Covers environmental engineering, water resources, waste management, and sustainable construction practices.	2015-16
Bachelor of Technology in Mechanical Engineering	Includes renewable energy systems, energy efficiency, and sustainable engineering technologies.	2015-16
Master of Technology in Structural Engineering	Focus on sustainable materials, green building technologies, and climate-adaptive structural design.	2015-16
Bachelors of Arts in Geography	Explores human-environment interactions, climate zones, resource geography, and spatial analysis of environmental patterns, providing interdisciplinary insight into sustainability and climate resilience.	2021-22

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### Courses offered within various programmes that specifically teach on climate science and/or environmental sustainability

Sr. No.	Course Name (Course Code)	Programme Name
1	Advanced Monitoring and Analytical Techniques for Environmental Science (11211118)	Master of Computer Application
		M.Sc. in Environmental Science
2	Agricultural Structures and Environmental Control (20103304)	B.Tech. in Agricultural Engineering
3	Alternative Fuel and Power System (203102431)	B.Tech. in Automobile Engineering
4	Automobile Maintenance & Pollution Control (203206183)	M.Tech. in Internal Combustion and Automobile
5	Biodiversity and its conservation (11114202)	B.Sc. in Environmental Science
6	Biopesticides & Biofertilizers (20100251)	Pharm D PB
		B.Sc. (Hons.) in Agriculture
7	Building & Environment – I (01103105)	Bachelor of Design
8	Building & Environment – II (1103155)	Bachelor of Design
9	Building & Environment – III (1103205)	Bachelor of Design
10	Building & Environment – IV (1103255)	Bachelor of Design
11	Built Environment and Climate Change (1101258)	M.Tech. in Chemical Engineering
		M.Tech. in Construction Project Management
		M.Tech. in Internal Combustion and Automobile
		M.Tech. in Production Engineering
		M.Tech. in Thermal Engineering
12	Business Economics & Environment (06200105)	M.B.A.
13	Cleaner Production (203220231)	M.Tech. in Chemical Engineering
14	Climate Change & Sustainable Development (21101212)	Bachelors of Science in Hotel Management
15	Climate Change & Sustainable Environment (11011401VA01)	B.C.A.(Honors)
		BSW/ BSW(Hons.)
		B.Sc. in Biochemistry
		B.Sc. in Chemistry
		B.Sc. in Forensic Science
		B.Sc. in Geology
		B.Sc. in Microbiology
		B.Sc. in Environmental Science
		B.Sc. In Paramedical and Health Sciences
		B.Sc. in Public Health
		Bachelors of Science in Hotel Management
16	Climate Change & Sustainable Environment (221011006)	B.Sc. in Information Technology (Honors)
		B.B.A.
		B.Sc. in Biotechnology
		B.Sc. in Food Technology
		B.Sc. in Genetics
		B.Sc. in Industrial Chemistry

		B.Sc. in Nutrition & Dietetics
		B.Sc. in Physics
		B.Sc. (Design)
		B.B.A.
17	Climate Change & Sustainable Environment (221021007)	B.C.A.
18	Climate Change & Sustainable Environment Theory (11011401VA01)	B.Sc. in Mathematics
19	Climate Change (11114251)	B.Sc. in Environmental Science
20	Community Health Nursing I including Environmental Science & Epidemiology (N-COMH(I) 310)	B.Sc. Nursing
21	Design of water and wastewater treatment systems (203104381)	B.Tech. in Civil Engineering
22	Disaster Management (11211164)	M.Sc. in Environmental Science
23	Disaster Management (15109256)	M.Tech. in Construction Project Management
24	Disaster Management (203216232)	M.Tech. in Construction Project Management
25	Disaster Preparedness and Planning (203104311)	B.Tech. in Biomedical Engineering
		B.Tech. in Computer Science & Engineering
		B.Tech. in Electronics and Communication Engineering
		B.Tech. in Mechanical Engineering
		B.Tech. in Petroleum Engineering
26	Disaster Preparedness and Planning (203104346)	B.Tech. in Automobile Engineering
		B.Tech. in Civil Engineering
		B.Tech. in Electrical Engineering
		B.Tech. in Information Technology
27	Earth Surface Processes (11211102)	M.Sc. in Environmental Science
28	Earthquake Engineering (203104403)	B.Tech. in Civil Engineering
29	Ecology and Biodiversity (11211130)	M.Sc. in Environmental Science
30	Ecology And Environment Management (11102269)	B.Sc. in Biochemistry
31	Ecology And Environment Management (11102281)	B.Sc. in Biotechnology
32	Ecology and Environmental Biochemistry (11203181)	M.Sc. in Biochemistry
33	Electrical Energy Conservation & Audit (203106431)	B.Tech. in Electrical Engineering
34	Energy Conservation & Management (203210131)	M.Tech. in Thermal Engineering
35	Energy Conservation and Management (20104359)	B.Tech. in Dairy Technology
36	Energy Conservation and Management (203109481)	B.Tech. in Computer Science & Engineering
		B.Tech. in Electronics and Communication Engineering
		B.Tech. in Mechanical Engineering
		B.Tech. in Mechanical Engineering
37	Energy Science and Engineering (203106346)	B.Tech. in Civil Engineering
		B.Tech. in Electrical Engineering
		B.Tech. in Information Technology

38	Energy Technology and Engineering (203100358)	B.Tech. in Petroleum Engineering
39	Environment & Development: Law & Policy (17203130)	LL.M
40	Environment & International Legal Order (17203180)	LL.M
41	Environment and Legislation (17203131)	LL.M
42	Environment, Development and Disaster Management (01201230 )	M.Plan.
43	Environmental & Occupational Health (19202161)	Master of Public Health
44	Environmental and agricultural microbiology (11201230)	M.Sc. in Microbiology
45	Environmental aspects of Biotechnology (11102230)	B.Sc. in Biotechnology
		B.Sc. in Genetics
46	Environmental Biochemistry 1 (11103230)	B.Sc. in Biochemistry
47	Environmental Biology (11011402DS07)	B.Sc. in Environmental Science
48	Environmental Biotechnology (11211169)	M.Sc. in Environmental Science
49	Environmental Chemistry (11011401DS02)	B.Sc. in Environmental Science
50	Environmental Communication (11211215)	M.Sc. in Environmental Science
51	Environmental Economics (15010107DS01)	Bachelor of Liberal Arts
52	Environmental Economics and Blue Economy (11211216)	M.Sc. in Environmental Science
53	Environmental Engineering (203104311)	B.Tech. in Civil Engineering
54	Environmental Engineering (303104255)	B.Tech. in Civil Engineering
55	Environmental Genetics (11116252)	B.Sc. in Genetics
56	Environmental Geology (11111353)	B.Sc. in Geology
57	Environmental Geology (11211251)	M.Sc. in Environmental Science
58	Environmental Geotechnology (203104407)	B.Tech. in Civil Engineering
59	Environmental Hazards and Case studies (11114253)	B.Sc. in Environmental Science
60	Environmental Health, Disaster Management and Emergency Medicine (19201304)	B.Sc. (Public Health)
61	Environmental Impact Assessment & Audit (203104408)	B.Tech. in Civil Engineering
62	Environmental Impact Assessment (01101585)	B.Arch.
63	Environmental Law (17100304)	LL. B
64	Environmental Law (17300451)	B. A./BBA/B. Com LL. B
65	Environmental Legislation (11114305)	B.Sc. in Environmental Science
66	Environmental Management (11114301)	B.Sc. in Environmental Science
67	Environmental Management System and Audit (11211214)	M.Sc. in Environmental Science
68	Environmental Microbiology (11101303)	B.Sc. in Microbiology
69	Environmental microbiology (11114204)	B.Sc. in Environmental Science
70	Environmental Monitoring (11114304)	B.Sc. in Environmental Science
71	Environmental Policies and Legislations (11211212)	M.Sc. in Environmental Science
72	Environmental Pollution & Control Techniques (11211161)	M.Sc. in Environmental Science
73	Environmental Pollution (11114252)	B.Sc. in Environmental Science

74	Environmental Pollution Control and Safety Management (203103431)	B.Tech. in Chemical Engineering
75	Environmental Pollution Control Technology (11223130)	M.Sc. in Industrial Chemistry
76	Environmental Pollutions (11205157)	M.Sc. in Chemistry
77	Environmental Psychology (15105214)	Bachelor of Liberal Arts
78	Environmental Science (11107257)	B.Tech. in Automobile Engineering
		B.Tech. in Biotechnology
		B.Tech. in Civil Engineering
		B.Tech. in Computer Science & Engineering
		B.Tech. in Electrical Engineering
		B.Tech. in Information Technology
		B.Tech. in Mechatronics Engineering
		B.Sc. in Forensic Science
79	Environmental Science (303104105)	B.Tech. in Aeronautical Engineering
		B.Tech. in Biomedical Engineering
		B.Tech. in Chemical Engineering
		B.Tech. in Computer Engineering
		B.Tech. in Electronics and Communication Engineering
		B.Tech. in Mechanical Engineering
		B.Tech. in Petroleum Engineering
80	Environmental Science (303106101)	B.Tech. in Robotics and Automation Engineering
81	Environmental Science and Studies (15193102)	Bachelor of Liberal Arts
82	Environmental Science and Disaster Management (20103154)	B.Tech. in Agricultural Engineering
83	Environmental Sciences & Disaster Management (20105109)	B.Tech. in Food Technology
84	Environmental Sciences (BP206T)	B.Pharm
85	Environmental Studies ('06302183)	Integrated B.B.A. M.B.A.
86	Environmental Studies (01101483)	B.Arch.
87	Environmental Studies (06101232)	B.B.A.
88	Environmental Studies (20104113)	B.Tech. in Dairy Technology
89	Environmental Studies (21101354)	Bachelors of Hotel Management & Catering Technology
90	Environmental Studies and Disaster Management (20110202)	B.Sc. (Hons.) in Agriculture
91	Environmental Toxicology and Occupational Health (11211119)	M.Sc. in Environmental Science
92	Fundamentals of Renewable Energy Sources (20103262)	B.Tech. in Agricultural Engineering
93	Green Sustainable Buildings (203104435)	B.Tech. in Civil Engineering
94	Health , Safety and Environment in Petroleum Industry (203120453)	B.Tech. in Petroleum Engineering
		B.Sc. in Public Health
95	Industrial Pollution Control (203220133)	M.Tech. in Chemical Engineering
96	Intelligent Buildings (01101444)	B.Arch.
97	International Trade and Business Environment (16202201)	M.Com.

98	Introductory Agro-meteorology & Climate Change (20101254)	B.Sc. (Hons.) in Agriculture
99	Irrigation Engineering (203104395)	B.Tech. in Civil Engineering
100	Marine Ecology & Wetlands (11211117)	M.Sc. in Environmental Science
101	Marine Geology (11211155)	M.Sc. in Environmental Science
102	Metamorphic Petrology (11211104)	M.Sc. in Environmental Science
103	Natural Resources (11114201)	B.Sc. in Environmental Science
104	Natural Resources and their conservation (11211131)	M.Sc. in Environmental Science
105	Net-Zero and Resilient Design (01101408)	B.Arch.
106	OT MOD-1 Biomedical Waste Management (19109201)	B.Sc. (Operation Theatre Technology)
107	OT MOD-2 Environmental Health (19109202)	B.Sc. (Operation Theatre Technology)
108	Physics of Renewable energy (11204214)	M.Sc. in Physics
109	Prevention & Control of Pollution (17203132)	LL.M
110	Principles of Earth Science (11011402DS06)	B.Sc. in Environmental Science
111	Principles of Environment (11011401DS01)	B.Sc. in Environmental Science
112	Principles of Environmental Science (11211111)	M.Sc. in Environmental Science
113	Product Realization (303104210)	B.Tech. in Civil Engineering
114	Renewable Energy and Green Technology (20106252)	B.Sc. (Hons.) in Agriculture
115	Renewable Energy Engineering (203109451)	B.Tech. in Mechanical Engineering
116	Renewable Energy Engineering (203210130)	B.Tech. in Biomedical Engineering
		B.Tech. in Computer Science & Engineering
		B.Tech. in Electronics and Communication Engineering
		B.Tech. in Mechanical Engineering
		B.Tech. in Petroleum Engineering
		M.Tech. in Thermal Engineering
117	Renewable Energy Sources (203109346)	B.Tech. in Automobile Engineering
		B.Tech. in Electrical Engineering
		B.Tech. in Information Technology
118	Renewable Energy System (203207130)	M.Tech. in Power System Engineering
119	Renewable Power Sources (20103309)	B.Tech. in Agricultural Engineering
120	Social Work and Disaster Management (10101308)	BSW/ BSW(Hons.)
121	Solid and Hazardous Waste Management (11114303)	B.Sc. in Environmental Science
122	Solid Waste Management (11211163)	M.Sc. in Environmental Science
123	Structural Geology and Tectonics (11211151)	M.Sc. in Environmental Science
124	Sustainability Engineering (203103331)	B.Tech. in Chemical Engineering
125	Techniques for Pollution control (11114254)	B.Sc. in Environmental Science
126	Urban Design (01101581)	B.Arch.
127	Waste Disposal and Pollution Abatement (20104402)	M.Tech. in Chemical Engineering
		M.Tech. in Construction Project Management
		M.Tech. in Internal Combustion and Automobile
		M.Tech. in Production Engineering
		M.Tech. in Thermal Engineering

128	Waste to Energy (203200206)	B.Tech. in Mechanical Engineering
		M.Tech. in CAD / CAM Engineering
		M.Tech. in Computer Engineering
		M.Tech. in Information Technology
		M.Tech. in Power System Engineering
		M.Tech. in Structural Engineering
		M.Tech. in Transportation Engineering
129	Waste to Energy Conversion (203109439)	B.Tech. in Automobile Engineering
130	Waste Water Recycling & Management (203104409)	B.Tech. in Civil Engineering
131	Water & Waste Water Treatment (11211167)	M.Sc. in Environmental Science
132	Water Budgeting & Auditing (11011401SE01)	B.Sc. in Geology
133	Water Conservation & Management (203103335)	B.Tech. in Chemical Engineering
134	Water pollution (11114257)	B.Sc. in Environmental Science
135	Wind and Solar Energy Systems (203106481)	B.Tech. in Electrical Engineering
136	Wind and Solar Systems (203207133)	M.Tech. in Power System Engineering

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### Value Added Course (VAC)

Sr. No.	Subject Code	Subject Name
1	11011401VA01	Climate Change & Sustainable Environment
2	227582	Electric Vehicle Technology
3	227600	Environmental Journalism
4	227606	Ecosystems and Environmental Issues
5	227678	Sustainable Campus- Clean, Green And Sustainable Technology
6	227601	Geoarchaeology
7	227603	Protein Technology
8	227602	Fundamentals of Green Chemistry

- **Executive Development Program in Environment, Sustainability and Governance**