

TIME TABLE FOR ENVIRONMENT STUDIES AND DISASTER MANAGEMENT (VAC) 2026-27

Notice No. 4499 Date 28/10/26

DAY	10:15	11:00	11:45	2:45	4:15
MON			Arts sec A -51 (Bot) Arts sec B-53 (Zool) Arts sec C-52 (Chem) Arts sec D-302 (Geol)		
TUE			Arts sec A -51 (Geol) Arts sec B-52 (Bot) Arts sec C-53 (Zool) Arts sec D-302 (Chem)		
WED			Arts sec A -51 (Zool) Arts sec B-302 Chem Arts sec C-52 (Geol) Arts sec D-53 (Bot)	Comm.-221 (Bot) Sc sec A-51 (Zool) Sc sec B-52 (Bot) Sc sec C-53 (Chem)	
THU		Arts sec A -306 (Chem) Arts sec B-307 (Geol) Arts sec C-302 (Bot) Arts sec D-306 (Zool)		Comm.-221 (Geol) Sc sec A-51 (Geol) Sc sec B-52 (Chem) Sc sec C-53 (Zool)	
FRI				Comm.-221 (Zool)	Sc sec A-51 (Bot) Sc sec B-52 (Zool) Sc sec C-53 (Geol)
SAT				Comm.-221 (Chem)	Sc sec A-51 (Chem) Sc sec B-52 (Geol) Sc sec C-53 (Bot)

- Arts Sec A:** Anthro, Eco, Hist, Home Science; **Sec B:** Edu, Eng, Geog, Hindi, Ind. Soc.; **Sec C:** Sans, Socio, Stat, Sant, T& HM, J& MC; **Sec D:** Odia, Philo, Pol. Sc., Psy, Public Adm.
- Science Sec A:** Bot, Zool, Geol; **Sec B:** Phy, Math, BBA; **Sec C:** Chem, Comp. Sc., Data science
- Commerce:** All Students of Commerce, BCA, Journalism and mass education,
- All AEDP students are instructed to attended the EVS & DM classes along with their respective Hons. Subject group students.**
- Faculty from Zoology (Zool), Botany (Bot), Chemistry (Chem) and Geology (Geol). *All HODs are requested to inform their staffs for class.*

Memo No. 4500 Date 28/10/26

Copy to Students Notice Board / all HoD's, Coordinator's through College WhatsApp Group (M.P.C. Breaking News) / Academic Bursar / Head clerk for information.

All HoD's, Coordinators are requested to inform their Hons. and AEDP Students about this time table for VAC class w.e.f. 29.10.2026.

Copy to P.R. Prasad, Programmer to upload this notice in the college website.

Principal
Principal, 28/10/2026

M.P.C. (Auto) College, Baripada

Principal
Principal, 28/10/2026

M.P.C. (Auto) College, Baripada

VAC Paper I

Environmental Studies & Disaster Management

(Credit-3)

Unit 1: Multidisciplinary nature of environmental studies (8 Period)

Definition, scope and importance

Need for public awareness

Environmental Pollution

Definition

• Cause, effects and control measures of:-

a) Air pollution

b) Water pollution

c) Soil pollution

d) Marine pollution

e) Noise pollution

f) Radiation pollution

Unit 2: Natural Resources: (8 Period)

Renewable and non-renewable resources:

Natural resources and associated problems.

a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people.

b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.

c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.

d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, waterlogging, salinity, case studies.

e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Case studies.

Biodiversity:- Introduction-Definition; Biogeographically classification of India

India as a mega diversity nation. Hot spots of biodiversity, Threats to biodiversity. Endangered and endemic species of India. Conservation of biodiversity. In Situ and Ex-situ conservation of biodiversity

Unit-3: Disaster Management (8 Period)

1. Disaster Management: Types of disasters (natural and Man-made) and their causes and effect)
2. Vulnerability Assessment and Risk analysis: Vulnerability to various disasters (Flood, Cyclone, Earthquake, Heat waves, Desertification and Lightning)
3. Institutional Framework: Institutional arrangements for disaster management (National Disaster Management Authority (NDMA), State Disaster Management Authority (SDMA), Disaster Management Act, 2005, District Disaster Management Authority (DDMA), National Disaster Response Force (NDRF) and Odisha Disaster Rapid Action Force (ODRAF)
4. Preparedness measures: Disaster Management cycle, Early Warning System, Pre Disaster and Post-Disaster Preparedness, strengthening of SDMA and DDMA, Community Preparedness for flood cyclone, heat waves, fire safety, lightening and snake biting. Stake holders participation, Corporate Social Responsibility (CSR)
5. Survival Skills: Survival skills adopted during and after disaster (Flood, Fire, Earthquake, Cyclone and Lightning), Disaster Management Act-2005, Compensation and Insurance

Unit 4: Social Issues and the Environment (6 Period)

- A. a) Environmental Ethics: Issues and possible solutions.
- b) Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies
- c) Environment Protection Act
- d) Air (Preservation Control of Pollution) Act
- e) Water (Preservation Control of Pollution) Act
- f) Wildlife Protection Act
- g) Forest Conservation Act
- h) Solid waste management Cause, effect and Control Measure of Urban and Industrial waste (Role of each individual in conservation of Natural resources and prevention of pollution)
- B. Human Population and the Environment
- Population Ecology: Individuals, species, population, community

Human population growth, population control method

Urbanisation and its effect on society

Unit 5: Field work (15 Periods of 30 hrs)

- Visit to an area to document environmental assets: river/forest/flora/fauna, etc.
- Visit to a local polluted site- Urban/Rural/Industrial/Agricultural
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, Delhi Ridge , etc.