



Re-Accredited 'B++' 2.86 CGPA by NAAC

**VEER NARMAD SOUTH GUJARAT UNIVERSITY**

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**વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી**

યુનિવર્સિટી કેમ્પસ, ઉધના-મગદલા રોડ, સુરત - ૩૯૫ ૦૦૭, ગુજરાત, ભારત.


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## **-: પરિપત્ર :-**

યુનિવર્સિટી સંલગ્ન તમામ બી.બી.એ. કોલેજોનાં આચાર્યશ્રીઓને જણાવવાનું કે, NEP-2020 અંતર્ગત શૈક્ષણિક વર્ષ ૨૦૨૬-૨૭ માં B.B.A. સેમેસ્ટર-૧ માં આવતા "Environmental Science and Sustainability" વિષયનાં અભ્યાસક્રમમાં સુધારો મંજૂર કરવા સંદર્ભે બિઝનેસ એન્ડ મેનેજમેન્ટ સ્ટડીઝ વિષયની અભ્યાસ સમિતિની તા.૨૧/૦૨/૨૦૨૬ની સભાના ઠરાવ ક્રમાંક:૦૫ થી કરેલ ભલામણને મેનેજમેન્ટ વિદ્યાશાખાનાં અધ્યક્ષશ્રીએ મેનેજમેન્ટ વિદ્યાશાખાની મંજૂરીની અપેક્ષાએ વિદ્યાશાખા વતી મંજૂર કરી એકેડેમિક કાઉન્સિલને કરેલ ભલામણને એકેડેમિક કાઉન્સિલની તા.૨૪/૧૨/૨૦૨૪ ની સભાનાં ઠરાવ ક્રમાંક:૩૫૩ અન્વયે માન. કુલપતિશ્રીને આપેલ સત્તા અંતર્ગત માનનીય કુલપતિશ્રી દ્વારા મંજૂર કરેલ છે. જેનો અમલ કરવા આથી જાણ કરવામાં આવે છે.

બિડાણ: ઉપર મુજબ

ક્રમાંક:ઓથો./પરિપત્ર/સિલેબસ/૦૬૯૪/૨૦૨૬  
તા. ૧૭-૦૪-૨૦૨૬

  
કુલસચિવ

પ્રતિ,

- ૧) યુનિવર્સિટી સંલગ્ન તમામ બી.બી.એ. કોલેજોનાં આચાર્યશ્રીઓ.  
.....આપશ્રીની કોલેજના સંબંધિત શિક્ષકોને જાણ કરી અમલ કરવા સારૂ.
- ૨) ડીનશ્રી, મેનેજમેન્ટ વિદ્યાશાખા.
- ૩) પરીક્ષા નિયામકશ્રી, પરીક્ષા વિભાગ, વીર નર્મદ દ. ગુ. યુનિવર્સિટી, સુરત.  
.....તરફ જાણ તેમજ અમલ સારૂ.

## Environmental Science and Sustainability

<b>FYBBA SEMESTER- 1 SEC 101</b>	<b>Environmental Science and Sustainability</b>	<b>2L:0T:0P</b>	<b>2 Credits</b>
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### Course description:

This course aims to familiarize students with fundamental environmental concepts and their relevance to business operations, preparing them to address forthcoming sustainability challenges. It is designed to equip students with the knowledge and skills needed to make decisions that account for environmental consequences, fostering environmentally sensitive and responsible future managers. The course content is divided into four comprehensive units. Unit 1 introduces basic environmental principles, the man-environment relationship, and sustainability issues. Unit 2 focuses on ecosystems, biodiversity, and sustainable practices. Unit 3 addresses environmental pollution, waste management, and sustainable development strategies. Finally, Unit 4 explores social issues, environmental legislation, and practical applications through hands-on fieldwork. Through this holistic approach, students will gain a deep understanding of environmental processes, the importance of sustainable practices, and their role in promoting sustainability within business contexts.

### Course Objective(s):

1. This course aims to familiarize students with basic environmental concepts, their relevance to business operations, and forthcoming sustainability challenges
2. This course will equip students to make decisions that consider environmental consequences.
3. This course will enable future business graduates to become environmentally sensitive and responsible managers.

### Course Content:

#### Unit 1: Understanding Environment, Natural Resources, Ecosystems and Sustainability

- Fundamental environmental concepts, Concept of sustainability;
- Natural resources Non-renewable Resources, Renewable Resources – (A) Forest resources, (B) Water resources, (C) Mineral resources, (D) Food resources, (E) Energy resources, (F) Land resources, Role of an individual in conservation of natural resources.
- Concept of an ecosystem, Structure and function of an ecosystem, Producers,

consumers and decomposers, Energy flow in the ecosystem. (A) The water cycle, (B) The Carbon cycle, (C) The Oxygen cycle,

- Food chains

## **Unit 2: Environmental Pollution, Waste Management, and Legislation**

- Definition, Causes, effects and control measures of - Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards
- Solid waste Management: Causes, effects and control measures of urban and industrial wastes,
- Disaster management: floods, earthquake, cyclone and landslides.
- Overview of key environmental legislation and the judiciary's role in environmental protection.

### **Readings:**

#### **Text Books (Latest Editions):**

- Poonia, M.P. *Environmental Studies*, Khanna Book Publishing Co.
- Bharucha, E. *Textbook of Environmental Studies*, Orient Blackswan Private Ltd.
- Dave, D., & Katewa, S. S. *Text Book of Environmental Studies*. Cengage Learning India Pvt Ltd.
- Rajagopalan, R. *Environmental studies: from crisis to cure*, Oxford University Press.

- Miller, G.T. & Spoolman S. *Living in the Environment*. Cengage.
- Basu, M., & Xavier Savarimuthu, S. J. *Fundamentals of environmental studies*. Cambridge University Press.
- Roy, M. G. *Sustainable Development: Environment, Energy and Water Resources*. Ane Books.
- Pritwani, K *Sustainability of business in the context of environmental management*. CRC Press.
- Wright, R.T. & Boorse, D.F. *Environmental Science: Toward A Sustainable Future* (13<sup>th</sup> ed.). Pearson.

## References

### Web links:

- <https://www.ourplanet.com>
- <https://www.undp.org/content/undp/en/home/sustainable-development-goals.html>
- [www.myfootprint.org](http://www.myfootprint.org)
- <https://www.globalchange.umich.edu/globalchange1/current/lectures/king/ecosystem/ecosystem.html>

### Course Outcome(s):

1. Explore the basic environmental concepts and issues relevant to the business and management field.
2. Recognize the interdependence between environmental processes and socio-economic dynamics.
3. Determine the role of business decisions, policies, and actions in minimizing environmental degradation.
4. Identify possible solutions to curb environmental problems caused by managerial actions.
5. Develop skills to address immediate environmental concerns through changes in business operations, policies, and decisions.

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