



AECC - ENVIRONMENTAL STUDIES SYLLABUS

Number of Theory Credits	Number of lecture hours	Number of field work hours
2	45	5

	Content of AECC - Environmental Studies	45 hours
Unit 1	Introduction to Environmental Studies	2
	Multidisciplinary nature of environmental studies Scope and importance of Concept of sustainability and sustainable development.	
Unit 2	Ecosystems	6
	What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems: a) Forest ecosystem, b) Grassland ecosystem, c) Desert ecosystem, Aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries)	
Unit 3	Natural Resources: Renewable and Non-Renewable Resources	8
	Land resources and land-use change; Land degradation, soil erosion and desertification. Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state) Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.	
Unit 4	Biodiversity and Conservation	8
	Levels of biological diversity: Genetic, species and ecosystem diversity. Biogeographic zones of India;	

Biodiversity patterns and global biodiversity hot spots.
India as a mega biodiversity nation; Endangered and endemic species of India.
Threats to biodiversity: Habitat loss, poaching of wildlife,



Davangere University

Shivagangothri, Davangere-577002.

GRADUATE PROGRAMME

Bachelor's Degree

CBCS

Subject : General Science and Management

Compulsory Paper for III Semester BA/BSW/B.Com/BBM

Teaching Hours per Week : 4 Hours

Max. Marks : 100 - Internal Assessment : 20; Semester End Examination : 80

Examination Duration : 3 Hours

Course Inputs

- Space:** Brief history of space technology in India, How a satellite works, ISRO, Different Centers, Launch vehicle types, Reusable technology, Different satellite orbits as GEO, LEO, MEO, GEO, INSAT and its applications, DTH.
Defense: Basic concepts on missile and its works, Stealth technology with intro of RADAR, Difference between ballistic and cruise missile, Anti-ballistic missiles and how it works, BRAHMOS, Institutional structure for R & D in defense, DRDO, Defense Technology Road Map of India.
- Electronics:** Brief introduction of Semiconductors, Working principle, LED and OLED, LCD, CFL, CRT, HDTV, Lasers, 3-D and Animation, Robotic.
Energy: Overview of fossil fuels as coal, crude oil, New technologies to decrease its pollution content, Thermal power plants, Hydroelectric power plants, Carbon sequestration, Carbon footprint concept, Renewable energy resources and non-renewable, Solar energy, Wind energy, Fuel cells, Geothermal energy, Tidal and wave energy, Biofuel, biogas, etc., Hydrogen fuel and its uses.
- Nanotechnology/Biotechnology:** Scientific principle, Applications- in medicine, industry, space, consumer goods, transport, environment, textile, Nano Mission of India.
Biotechnology: Definition, Branches, Genes, Bio fingerprinting, Bio sensors, Genetic engineering, Human genome project, Bio piracy, Bt cotton, Bt Brinjal and controversy, Stem cells, Maintenance of personal and environmental hygiene, pathogenic microorganisms, vaccines, antibiotics, diagnostic methods.
Institutional structure for Science Development : Department of S & T, SEED, NCSTC, NSTEDB, CSIR, SERC, Technology dev Board, National Accreditation Board
- Quantitative and Mental Ability:**
 - Reasoning Ability-Concepts, Problem Solving ability in a quantitative setting
 - Basic Arithmetic, Algebra and Geometry (Average, Ratios, Rates, Percentages, Angles, Triangles, Sets, Remainders, Equations, Symbols, Rounding of Numbers.
 - Scales that measure specific constructs such as a Verbal, Mechanical, Numerical and Social ability.

REGISTRAR

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GRADUATE PROGRAMME
Bachelor's Degree
CBCS

SUBJECT: CONSTITUTION OF INDIA
(Compulsory paper)
Revised for the Year 2016-17 and onwards

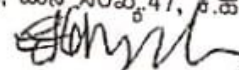
I.A. Marks: 20
Exam Marks: 80
Total Marks:100

Teaching Hours:4 Hours per week

- Module-1 :** Framing of the Indian Constitution
- Module-2 :** Principles of Indian Constitution
- i) The Preamble to the Constitution
 - ii) Fundamental Rights and Duties.
 - iii) Directive Principles of State Policy
 - iv) Methods of Amendment to the Constitution
- Module-3 :** Union Government
- i) Parliament: Composition and Functions – Rajyasabha and Lok sabha
 - ii) Executive: Prime Minister – Cabinet-President of India-Vice President.
 - iii) Judiciary: Supreme Court of India – Judicial Review.
- Module-4 :** State Government
- Legislature: Vidhana Sabha – Vidhana Parishad: Composition, Powers and Functions.
Executive: Governor and Council of Minister: Chief Minister
Judiciary- High Courts
- Module-5 :** Local Self Government
- Rural and Urban Government: 73rd and 74th Amendments.

References:

- 1 Busu D.D, (2015) Introduction to Constitution of India, 20th Edition.
- 2 Jayapalan N, (1998) Constitutional History of India, Atlantic Publishers and Distributors (P) Limited.
- 3 Lingaraj B.S. (2009) Constitution of India, A Road to Social Revolution, Maheshwari Publication.
- 4 Pandey J.N. (2012) Constitutional Law of India, Central Law Agency.
- 5 Pylee M.V., Indian's Constitution.
- 6 Rajashekhar H.M., Understanding Indian Constitution.
- 7 Brijkishore Sharma, Introduction to the Constitution of India.
- 8 ಶ್ರೀಮತಿ ವಿ.ಬಿ. ಪದ್ಮಶ್ರೀ 'ಭಾರತ ಸಂವಿಧಾನ - ಎರಡು ಸಂಪುಟಗಳು (2007), ಮನೆ ಸಂಖ್ಯೆ 47, ಸಿ.ಹೆಚ್.ಬಿ. ಕಾಲೋನಿ, ಹುಬ್ಬಳ್ಳಿ



1. (Dr. Hiregudde G.C.)
Chairman, Bus
2. ಶ್ರೀಮತಿ ವಿ.ಬಿ. ಪದ್ಮಶ್ರೀ
(Co-ordinator)

5. **Logical and Analytical Reasoning:**

- **Logical Reasoning** includes the process of using a rational, systematic series of steps based on sound mathematical procedures and given statements to arrive at conclusions
- **Analytical Reasoning** includes visualizing, articulating and solving both complex and uncomplicated problems and concepts and making decisions

6. **Management:** Meaning, Definitions, Functions, Objectives of Management: Qualities and Qualifications of a Good Manager, Managerial Skills.

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Fifth Semester - Skill Development Paper-I

Hours: 32

Objective: To enable the students to understand the importance of Personality and develop soft skills for their future life.

- Unit-1. Personality : Meaning-Development- components of Personality-Elements of Success-Determinants of Personality- Soft skills-importance of soft skills-different soft skills-skills training.
- Unit-2. Know Thyself/Self-Discovery: Importance of knowing yourself- SWOT analysis-Benefits of SWOT analysis-SWOT analysis grid-Questions to complete the grid.
- Unit-3. Forming values:Introduction-Meaning-what is value & values relating to education- self and others, Civic responsibility, Personal values-cultural values, Social values.
- Unit-4. Art of listening: Benefits of active listening-common poor listening habits-Listening Tips-Art of reading – determining reading rates-Activities for increasing reading rates: Art of writing-importance of writing-writing tips. Art of E-mail writing.
- Unit-5. Body Language: Forms of body language –Parts of body language-Developing confidence with correct body language. Etiquette and Manners-Benefits of Etiquette and manners-Practicing good manners. Manners in different places and functions.

Reference books:

4. Soft Skills – Dr. K .ALEX S. Chand & Co., Ltd.,
Ram Nagar, New Delhi-110055.
5. Personality - Development Dr. R.C. Bhatia. Ane Books Pvt. Ltd.,
Ansari Road, New Delhi-110002, India, Daryaganj.
6. Soft Skills John. Z Sonmez,dreamtech Press, 19-A, Ansaari Road,
Daryaganj, New Delhi-110002.



	<p>Biodiversity patterns and global biodiversity hot spots.</p> <p>India as a mega biodiversity nation; Endangered and endemic species of India.</p> <p>Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.</p> <p>Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic, and Informational value.</p>	
Unit 5	Environmental Pollution	8
	<p>Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution,</p> <p>Nuclear hazards and human health risks</p> <p>Solid waste management, Control measures of urban and industrial waste</p> <p>Pollution case studies</p>	
Unit 6	Environmental Policies & Practices	7
	<p>Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture.</p> <p>Environment Law: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act; International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).</p> <p>Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context</p>	
Unit 7	Human Communities and the Environment	6
	<p>Human population growth: Impacts on environment, human health and welfare.</p> <p>Resettlement and rehabilitation of project affected persons; case studies</p> <p>Disaster management: floods, earthquake, cyclones and landslides.</p> <p>Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan</p> <p>Environmental ethics: Role of Indian and other religions</p>	

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	<p>and cultural environmental conservation</p> <p>Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).</p>	
Unit 8	Field work	

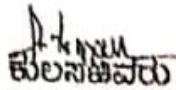


Objective: To make them to equip different skills required for their career.

- Unit-1. Defining Communication-Special features of communication, Communication process - importance of Communication-Barriers to communication-Tips for effective communication-Tips for powerful presentation-Art of public speaking- public speaking tips.
- Unit-2. Career planning-Benefits of career planning-Guidelines for choosing career-Myths about choosing a career- Tips for successful career planning- Things one should know while starting career and during his career.
- Unit-3. Preparing CV/Resume-Introduction-Meaning-Difference among Bio-data, CV and Resume-The purpose, facts, tips of writing Bio-data, CV and Resume. Tips to write cover letter.
- Unit-4. Interview Skills -Introduction- Types of Interview- Types of questions asked- Telephonic Interview-Dress code -Tips to make good impression in an interview- How to search for Job effectively.
- Unit-5. Time Management- Importance of time Management: Steps for time Management- Features of time-Secrets of time Management-Tips for effective time Management. Stress Management- effects of stress-kinds of stress-stress Management tips.

Reference books:

1. Soft Skills - Dr. K .ALEX S. Chand & Co., Ltd.,
Ram Nagar, New Delhi-110055.
2. Personality - Development Dr. R.C. Bhatia. Ane Books Pvt. Ltd.,
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ಕುಲಸಚಿವರು
ದಾಖಲೆಗಳ ವಿಭಾಗದ ನಿರ್ದೇಶಕರು
ಕೆ.ಆರ್.ಎಸ್.ಸಿ. ಕಾಲೇಜು, ದಾಖಲೆ - 577002.