

Placed at the meeting of
Academic Council
held on 26.03.2018

APPENDIX - BL
MADURAI KAMARAJ UNIVERSITY
(University with Potential for Excellence)

Revised Syllabus for
Environmental Studies (2 Credits)

For All U.G. Courses in Fifth Semester w.e.f. 2018 onwards
Semester – V

Contact classes per week - 2 hours & Contact classes per Semester - 30 hours.

A. Objectives

- To create awareness on Environment, ecosystem, energy flow, food chain, food web and Biogeochemical cycles
- To understand the sustainable agriculture and exploitative human activity in polluting the environment locally and globally
- To provide awareness about issues relating to drinking and driving, Road safety rules and Traffic signals
- To create awareness on disasters through intensive public education
- To create awareness on village adoption towards clean, green infrastructure, education, health, drinking water supply, etc

Plan of Teaching and Evaluation

Allotted hours : Total 30 Hours, 25 hours may be allotted for theory and 5 hours for field study / report writing / internal assessment.

Evaluation Total	100
External	75
Internal	25

Scheme for Internal Exam (for 25 marks)

Field Trip and Report / Case Study and Report (Assignment)	10 Marks
Continuous Assessment Test	5 Marks
Seminar / Quiz / CD	5 Marks
Peer-Team Teaching	5 Marks

Unit I. Earth and its Environment

- a) Earth formation and Evolution of Earth over time – Structure of earth and its components : Atmosphere, Lithosphere, Hydrosphere and Biosphere
- b) Resources – Renewable and Non- renewable resources.

Unit II. Ecology and Ecosystem concepts

- a) Ecology definition – ecosystem – definition – structure and function –energy flow- food chain and food web – one example for an ecosystem
- b) Biogeochemical cycles – Nitrogen, Carbon, Phosphorous, Water

Unit III. Biodiversity and India

- a) Introduction- definition- values of biodiversity- threats to biodiversity- conservation of biodiversity
- b) Biodiversity of India – as a mega diversity nation-bio-geographical distribution – hot spots of biodiversity- national biodiversity conservation board and its function.

Unit IV. Pollution and Global Issues

- a) Definition, causes, effects and control measures of air, water, soil, marine, noise, thermal and nuclear pollution.
- b) Global issues : Global warming and Ozone layer depletion.

Unit V. Development and disaster management

- a) Sustainable Development - sustainable agriculture – organic farming, irrigation – water harvesting and waste recycling – cyber waste and management.
- b) Disaster management – Flood and Drought – Earthquake and Tsunami – Landslides and Avalanches – Cyclones and Hurricanes – Precautions, Warnings rescue and Rehabilitation.
- c) Road safety rules – Traffic signals – Conduct of road safety awareness programme.
- d) Role of the Colleges, Teachers and Students in village adoption towards clean, green and make in villages in various aspects.

Text Books

1. Arumugam, N, 2016, Concepts of Ecology. Saras publication, Nagercoil

Reference Books

1. Odum E.P., 1971, Fundamentals of ecology, W.B. Saunders Company, London.
2. Verma and Agarwal, 2003, Principles of Ecology, S.Chand& Company. New Delhi,
3. Ecology for Environmental science. Biosphere- Anderson J.M. 1981
4. Water pollution and Management- C.K.Varshney, 1984
5. Environmental Biology- P.D.Sharma, 2005
6. Natural disaster-A guide for relief workers- JAC Adliyatmasadhana Kendra.
7. Disaster planning- the preservation of life and property, Foster,H.D
8. India Disaster report: towards a policy initiative, Parasuraman.s, 2000
9. Disaster Management, Mukesh Kapoor, 2009
10. Textbook of Highway and Traffic Engineering, Saxena S.C, 2005
11. Road safety management issues and perspectives, Prabha shastri ranade, 2010
12. Safety and Disaster Management, O.P. Dutta, 2014. Methods, Techniques, Recent Approach, Major Events & Exist Framework Hazardous Material
13. The Indian Ocean Tsunami: The Global Response to a Natural Disaster By Pradyumna P. Karan, Shanmugam P. Subbiah, 2011
14. Village Adoption & Development Programme guidelines, 2016, National Institute of Rural Development & Panchayati Raj (NIRD&PR) Ministry of Rural Development, GoI Rajendranagar Hyderabad – 500030

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APPENDIX - BM
MADURAI KAMARAJ UNIVERSITY
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Revised Syllabus for
VALUE EDUCATION

For All U.G. Courses in Sixth Semester w.e.f. 2018

Semester – VI

Total marks:100 & 2 Credits

Contact classes per week - 2 hours & Contact classes per Semester - 30 hours.

Objectives

To impart citizenship values among the student
To make them awareness of civil rights
To familiarities the students with basic features of Indian constitution

Unit I. Values and Individual

Values meaning – the significance of values – classification of values –needs of value education – values and the individual – self-discipline, self-confidence, self-initiative, empathy, compassion, forgiveness, honesty and courage.

Unit II. Values of Religion and Society

Karma yoga in Hinduism – love and justice in Christianity – brotherhood in Islam, compassion in Buddhism – ahimsa in Jainism and courage in Sikhism – need for religious harmony-
Definition of society – democracy – secularism –socialism –gender justice – human rights – socio political awareness – social integration – social justice.

Unit III. Professional values &Role of social institutions in value formation

Definition – accountability –willingness to learn – team sprit- competence development – honesty – transparency – respecting others – democratic functioning –integrity and commitment.
Role of family – peer group – society – educational institutions – role models and mass media in value formation.



10. A Cultural Heritage of India (4 Vols.), Bharatiya Vidya
11. Basu DD, 2015. Introduction to the Constitution of India, Gurgoan:Lexis Nexis
12. NCERT, 2006, Indian Constitution at work, New Delhi:NCERT
13. Subash C. Kashyap, Citizen & the Constitution, New Delhi: Publication Division, Ministry of Information and Broadcasting,2015
14. Y.V. Chandra Chudh, The Basics of Indian Constitution, New Delhi: Publication Division, Ministry of Information and Broadcasting,2015

Web Documents

National Open School Materials: Senior Secondary level Political Science Lessons

Module 2: Aspects of Indian constitution

Lesson 5: preamble and salient features of the constitution of India

Available in <http://download.nos.org/srsec317newE/317EL5.pdf>

Lesson 6: Fundamental rights

Available in <http://download.nos.org/srsec317newE/317EL6.pdf>

Lesson 7: Directive principles of State Policy and Fundamental Duties

Available in <http://download.nos.org/srsec317newE/317EL7.pdf>

Methodology

The each mentioned value may be taught through parables, new analysis, role play, group discussion, debates, case studies, peer-team discussion and field work

Evaluation Pattern (External 75 Marks & Internal 25 Marks)

Scheme of Internal Assessment

Test	=	10 marks (average of best two tests)
Assignment	=	5 marks
Seminar / Group Discussion	=	5 marks
Peer-Team-Teaching	=	5 marks
Total	=	25 marks

End of Semester Exam (External)

Question Paper Pattern:

Part A – Descriptive Type – 100 words each	(5 x 6 = 30 Marks)
Part B – Descriptive & Analytical Type – 250 words each	(3 x 15 = 45 Marks)