



Bangalore University
Department of Environmental Science
Jnanabharathi Campus
Bengaluru – 560 056

Syllabus for
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
ENVIRONMENTAL STUDIES
Under-Graduate (UG) Program
Framed according to the National Education Policy (NEP 2020)

September 21, 2021

Board of Studies (UG) members present and approved the Syllabus

SI No	Name and Association	Designation
1	Dr. B. C. Nagaraja Department of Environmental Science, Bangalore University, Bangalore	Chairperson
2	Prof. N. Nandini Department of Environmental Science, Bangalore University, Bangalore	Member
3	Dr. K.L. Prakash Department of Environmental Science, Bangalore University, Bangalore	Member
4	Dr. Helen Roseline, Associate Professor, Department of Environmental Science, Mount Carmel College, Bangalore	Member
5	Dr. Alkananda J Adur Assistant Professor Department of Environmental Science, Surana College, Bangalore	Member
6	Dr. Kavitha K R Associate Professor, Department of Botany Government Science College, Bangalore	Member
7	Dr. P. Anitha, Associate Professor, Department of Botany, BMS College for Women, Bangalore	Member
8	Dr. Rinku Verma Associate Professor, Department of Forestry & Environmental Science, University of Agriculture Science, Bangalore	Member

BANGALORE UNIVERSITY
DEPARTMENT OF ENVIRONMENTAL SCIENCE

Jnanabharathi Campus, Bangalore – 560056

Proceedings of the Board of Studies (UG) meeting held on 20th & 21st September, 2021 in the Department of Environmental Science, Bangalore University, Bangalore – 560056.

A meeting of BOS (UG) was convened on 20th & 21st September, 2021 in the Department of Environmental Science, JB campus, Bangalore University, Bangalore.

The Chairperson welcomed all the members of the BOS (UG) in the beginning and then the members were invited to discuss on the agenda of the meeting.

- a) Approval of Under graduate first year syllabus (I & II Semester) for implementation from the academic year of 2021-22 as per New National Education Policy.
- b) Approval of the Ability Enhancement Compulsory Course "Environmental Studies" for implementation in the Academic year of 2021-22.
- c) Course Pattern and Scheme of Examination, 2021-22

Members gone through the scheme and syllabus submitted by Expert committee constituted by Government of Karnataka. The committee members have discussed and approved the scheme and syllabus for first and second semester UG course for implementation from Academic year 2021-22. The meeting ended with vote of thanks by the Chairperson.

Members Present

Nandini
Prof. N. Nandini

P. Anitha 21/9/21
Dr. P. Anitha,

K.L. Prakash 21/09/2021
Dr. K.L. Prakash

Helen Roseline 21/9/21
Dr. Helen Roseline

Alakshanda J Adur 21/9/21
Dr. Alakshanda J Adur

K.R. Kavitha 21/9/2021
Dr. Kavitha K.R. 21/9/2021

Rinku Verma 21/9/21
Dr. Rinku Verma

Members Absent
Dr. Nagaraja Parisara
Dr. Abdul Khayum

B.C. Nagaraja 21/09/2021

(B.C. Nagaraja)

Dr. B.C. NAGARAJA Ph.D.
Chairman
Dept. of Environmental Science
Bangalore University
Bengaluru - 560056

AECC - ENVIRONMENTAL STUDIES SYLLABUS

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

Unit	Content	45 hours
Unit 1	Introduction to Environmental Studies	2
	Multidisciplinary nature of environmental studies Scope and importance; Concept of sustainability and sustainable development.	
Unit 2	Ecosystems	6
	Definition, concept, Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems: Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).	
Unit 3	Natural Resources: Renewable and Non-Renewable Resources	8
	Land resources, types and distribution 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: Resource types, distribution and status. Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water sharing, types of water sharing (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. Biodiversity hotspots of India. India as a mega-biodiversity nation; Endangered and endemic species of India. Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Ecosystem and biodiversity services: Ecological, economic, social, ethical and aesthetic value.	
Unit 5	Environmental Pollution Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution. Climate change, global warming, ozone layer depletion, acidrain and impacts on human communities and agriculture. Nuclear hazards and human health risks. Solid waste management, Control measures of urban and industrial waste Pollution case studies.	8
Unit 6	Environmental Policies and Practices Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act, Solid Waste Management Rules. International Conventions on Environment: Ramsar convention, Montreal protocol, Paris agreement, Basel convention and Convention on Biological Diversity (CBD). Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context	7
Unit 7	Human Communities and the Environment Human population growth: Impacts on environment, human health and welfare. Resettlement and rehabilitation of project affected persons; case studies. Disaster management: floods, earthquake, cyclones and landslides. Environmental movements: Chipko, Silent valley, Apikko, Salumarada Thimmakka. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation Environmental communication and public awareness, case studies (Solar energy park of Karnataka).	6
Unit 8	Field work	5

Reference

- Carson, R. (2002). *Silent Spring*. Houghton Mifflin Harcourt.
- Gadgil, M., & Guha, R. (1993). *This Fissured Land: An Ecological History of India*. Univ. of California Press.
- Gleeson, B. and Low, N. (eds.) (1999). *Global Ethics and Environment*, London, Routledge.
- Glejck, P. H. (1993). *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. (2006). *Principles of Conservation Biology*. Sunderland: Sinauer Associates.
- Grumbine, R. Edward, and Pandit, M.K. (2013). Threats from India's Himalayadams. *Science*, 339: 36-37.
- McCully, P. (1996). *Rivers no more: the environmental effects of dams* (pp. 29-64). Zed Books.
- McNeill, John R. (2000). *Something New Under the Sun: An Environmental History of the Twentieth Century*.
- Nandini, N. (2019). *A text book on Environmental Studies (AECC)*. Sapna BookHouse, Bengaluru.
- Odum, E.P., Odum, H.T. & Andrews, J. (1971). *Fundamentals of Ecology*. Philadelphia: Saunders.
- Pepper, I.L, Gerba, C.P. & Brusseau, M.L. (2011). *Environmental and Pollution Science*. Academic Press.
- Rao, M.N. & Datta, A.K. (1987). *Waste Water Treatment*. Oxford and IBHPublishing Co. Pvt. Ltd.
- Raven, P.H., Hassenzahl, D.M. & Berg, L.R. (2012). *Environment*. 8th edition. JohnWiley & Sons.
- Rosencranz, A., Divan, S., & Noble, M. L. (2001). *Environmental law and policy in India*. Tripathi 1992.
- Sengupta, R. (2003). *Ecology and economics: An approach to sustainable development*. OUP.
- Singh, J.S., Singh, S.P. and Gupta, S.R. (2014). *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi.
- Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). (2013). *Conservation Biology: Voices from the Tropics*. John Wiley & Sons.
- Thapar, V. (1998). *Land of the Tiger: A Natural History of the Indian Subcontinent*.
- Warren, C. E. (1971). *Biology and Water Pollution Control*. WB Saunders.
- Wilson, E. O. (2006). *The Creation: An appeal to save life on earth*. New York: Norton.
- World Commission on Environment and Development. (1987). *Our Common Future*. Oxford University Press.

Yoga syllabus for Colleges/Universities

Scheme – NEP 2020

Yoga and Holistic Living

Theory Paper – I Semester

Total Marks: 100

No. Teaching Hours: 56

Section I – Introduction to Yoga and its Streams

Unit – 1	Concept of Yoga	8 Hrs
	1.0 What is Yoga?	
	1.1 Definitions from scriptures	
	1.2 Summary	
Unit – 2	Why Yoga?	8Hrs
	2.0 Benefits of Yoga	
	2.1 All-round Personality Development	
	2.2 Benefits as mentioned various texts	
	2.3 Yoga – A way of life style and Society	
	2.4 Summary	
Unit – 3	Basis of Yoga	8 Hrs
	3.0 Quest for Happiness	
	3.1 Is happiness a mirage?	
	3.2 Where is the Real Happiness?	
	3.3 Secret of Happiness	
	3.4 Happiness is Silencing the Mind	
	3.5 Summary	
Unit – 4	Patanjali Yoga Sutras	16 Hrs
	1.0 Concept of Yoga	
	1.1 Obstacles and Solutions	
	1.2 Astanga Yoga	
	1.3 Summary	

Section II – Yoga and Its Applications

Unit – 1	Four Streams of Yoga	8 Hrs
	1.0 Integral Yoga	
	1.1 Karma Yoga	
	1.2 Jnana Yoga	
	1.3 Bhakti Yoga	
	1.4 Raja Yoga	
	1.5 Summary	
Unit – 2	Yoga and Its Applications	8Hrs
	2.0 Applications of Yoga	
	2.1 Yoga and Education	
	2.2 Yoga and Health	
	2.3 Yoga and Psychology	
	2.4 Summary	

Yoga syllabus for Colleges/Universities

Scheme – NEP 2020

Yoga and Holistic Living

Practical Paper – I Semester

Total Marks: 50

No. Teaching Hours: 52

Unit – 1	Preparatory Practice	7 Hrs
	1.0 Sitalikarana Vayama	
	1.1 Loosening Practices	
	1.2 Warm Up Practices	
	1.3 Surya Namaskara	
Unit – 2	Yoga Postures	30 Hrs
	2.0 Cultural, Relaxative and Meditative	
	2.1 Standing Postures	
	2.2 Sitting Postures	
	2.3 Prone Postures	
	2.4 Supine Postures	
Unit – 3	Pranayama & Kriyas	15 Hrs
	1.1 Breathing Practices	
	1.2 Preparatory Practices	
	1.3 Pranayama and Nadanusndhana	
	1.4 Kriyas - Cleansing Techniques	

Formative Assessment	
Theory	Theory – 60 Marks Internal – 40 Marks
Practical's	Practical – 30 Marks Internal – 20 Marks
Total	150 Marks

Yoga syllabus for Colleges/Universities

Scheme – NEP 2020

Yoga and Holistic Living

Theory Paper – II Semester

Total Marks: 100

No. Teaching Hours: 56

Section I – Promotion of Positive Health 20 Hrs

1. Concept of Health and Disease
2. Pancha Kosha Viveka
3. Concept of Yoga Therapy Techniques
4. Integrated Approach of Yoga Therapy

Section II - Yoga Therapy for Psychosomatic Disorders 36 Hrs

Unit I

Concept of Yoga Therapy techniques, Integrated approach of yoga therapy.

Unit II

- Operations at Annamaya kosa.
- Operations at Pranamaya kosa
- Operations at Manomaya kosa
- Operations at Vijnanamaya kosa
- Operations at Anandamaya kosa

Unit III

Yoga Therapy for different ailments-I

- A. Respiratory Disorders
- B. Cardiovascular Disorders
- C. Muscular Disorders

Unit IV

Yoga Therapy for different ailments-II

- A. Digestive Disorders
- B. Excretory Disorders
- C. Reproductive Disorders

Unit V

Yoga Therapy for different ailments-III

- A. Neurological Disorders
- B. Psychiatric Disorders
- C. Disorders of Special senses
- D. Immune Disorders

Yoga syllabus for Colleges/Universities

Scheme – NEP 2020

Yoga and Holistic Living

Practical Paper – II Semester

Total Marks: 50

No. Teaching Hours: 52

Integrated Approach of Yoga Therapy Practices for
Psychosomatic ailments

52 Hrs

1. Asthma & Nasal Allergy
2. Hypertension & IHD
3. Diabetes Mellitus
4. Back Pain & Headache
5. Anxiety Depression
6. Knee Pain
7. Arthritis
8. Obesity
9. Gastro-intestinal Disorders
10. Menstrual Disorders

Formative Assessment	
Theory	Theory – 60 Marks Internal – 40 Marks
Practical's	Practical – 30 Marks Internal – 20 Marks
Total	150 Marks

LIST OF OPEN ELECTIVES UNDER N.E.P. -2020 SCHEME

FOR THE UNDERGRADUATE COURSES FROM THE ACADEMIC YEAR 2021-22

1. LANGUAGES:

Sl No	Subject/Course	OPEN ELECTIVE TOPICS			
		I SEMESTER		II SEMESTER	
1	Kannada	1	ಕನ್ನಡ ವ್ಯಾಕರಣ	1	ಕನ್ನಡ ಸಾಹಿತ್ಯ, ಸಂಸ್ಕೃತಿ ಸಂಕ್ಷಿಪ್ತ ಪರಿಚಯ
		2	ಆತ್ಮ ಚರಿತ್ರೆಗಳು	2	ಕನ್ನಡ ವಿಚಾರ ಸಾಹಿತ್ಯ -2
		3	ಕನ್ನಡ ವಿಚಾರ ಸಾಹಿತ್ಯ-1		-
2	English	1	Functional English Grammar and Study Skills	1	Speaking and Listening Skills
		2	Spoken English for Corporate Jobs	2	Translation Theory & Practice
3	Sanskrit	1	Sanskrit Bhasa pravesathi	1	Vyavaharika Samskrutam (Functional Sanskrit)
4	Urdu	1	Introductory Urdu	1	Introduction to Urdu Literature
5	Hindi	1	Paryavaran sambamndhi sahitya	1	Bhasha Aur Sahithyaka Samanya Parichay

2. ARTS:

Sl No	Subject/Course	OPEN ELECTIVE TOPICS			
		I SEMESTER		II SEMESTER	
1	Journalism & Mass Communication	1	Writing for Media	1	Photo Journalism
2	Economics	1	Kuatiya's Arthashastra	1	Contemporary Indian Economy
		2	Reforms in Indian Economy	2	Sustainable Development
		3	Development Studies	3	Business Environment
3	History	1	Society and Culture of Karnataka (CE 300 - CE 1000) Part -I	1	Society and Culture of Karnataka (CE 1000 - CE 1750) Part II
		2	Introduction to Archeology	2	Trade and Commerce of India from the Earliest to 1947
4	Performing Arts	1	Dance (Bharatanat yam) Music Karnatak, Hindustani mrudanga theater arts folk dance (Bharatanat yam) Music Karnatak, Hindustani, Mrudanga, Theatre Arts, Folk Dance		
5	Political Science	1	Human Rights	1	Indian Polity: Issues and Concerns
6	Philosophy	1	Philosophy of Swami Vivekananda	1	Ethics and values
7	Social Work	1	Fields of Social Work Practice	1	Socialwork concerns for Women Child Development

Sl No	Subject/Course	OPEN ELECTIVE TOPICS			
		I SEMESTER		II SEMESTER	
8	Sociology	1	Indian Society : Continuity and Change	1	Society Through Gender Lens
		2	Sociology of Everyday Life	2	Social Development in India
9	Women Studies	1	Understanding Gender	1	Women's Human Rights
		2	Capacity building for Gender Practitioners	2	Doing field research with Gender perspectives
10	Tourism	1	-	1	Tour Guide and Service

3. SCIENCE:

Sl No	Subject/Course	OPEN ELECTIVE TOPICS			
		I SEMESTER		II SEMESTER	
1	BCA	1	Journey into Fundamentals and 'C' programming concepts	1	Python Programming
		2	Office Automation		-
2	Biochemistry	1	Biochemistry in health and disease	1	Nutrition and dietetics
3	Biological Science	1	Biodiversity and Conservation	1	Bio-Physics
4	Biotechnology	1	Biotechnology for Human Welfare	1	Applications of Biotechnology in Agriculture
5	Botany	1	Plants & Human Welfare	1	Plants Propagation, Nursery Management & Gardening
6	Chemistry	1	Chemistry in Daily Life	1	Molecules of Life
7	Clinical Nutrition & Dietetics	1	Fundamentals of Food and Health	1	Food safety and Hygiene
		2	Health lifestyle and Nutrition	2	Food Adulteration Nutritional Assessment/ Traditional Foods in Health
8	B.Sc. Computer Science	1	Journey into Fundamentals of 'C' Programming	1	Python Programming
9	Electronic Science	1	Domestic Equipment Maintenance	1.	Consumer Electronics
		2	Renewable Energy and Energy Harvesting	2	Industrial Electronics
10	Environmental Science	1	Environmental Conservation Movements	1	Climate Change & it's Implications,
		2	Environmental Sustainable Pollution	2	Environment & Public health in contemporary society.
11	Fashion and Apparel Design	1	Textiles and Costumes of India	1	Clothing Care & Maintenance
12	Food Science, Nutrition and Dietetics	1	Fundamentals of Food & Health	1	Food Safety & Hygiene,
		2	Healthy life style & Nutrition.	2	Food Adulteration.

Sl No	Subject/Course	OPEN ELECTIVE TOPICS			
		I SEMESTER		II SEMESTER	
13	Forensic Science	1	General Forensic Science	1	Crime Scene Investigation
14	Genetics	1	Principles of genetics	1	Genetic Counselling
15	Geography Geoinformatics (5yrs)	1	Mathematics for Geography	1	Spatial Statistics
		2	Fundamentals of Remote Sensing	2	Introduction to Geographic Information Systems
16	Geography	1	Introduction of Physical Geography	1	Introduction to Human Geography
		2	Introduction to Natural Resources	2	Fundamentals of Natural Disasters
17	Geology	1	Crystallography, Mineralogy, and Economic Minerals	1	Basics of Earth System Science
		2	Pedology	2	Geohazards and Mitigation Strategies
18	Interior Design & Decoration	1	Basics of Interior Design	1	Home Décor
		2	Colour Concepts in Interiors	2	Landscape
19	Library Inf. Sci.	1	Library and Information Centres	1	Reference and Information Sources (Print and Electronic)
20	Mathematics	1	Mathematics-I	1	Mathematics-II
		2	Business Mathematics-I	2	Business Mathematics-II
21	Microbiology	1	Microorganisms for Human	1	Environmental Microbiology and Human Health
22	Physics	1	Energy Resources	1	Atmospheric Science
		2	Physics for all	2	Sports Science
23	Psychology	1	Psychology of Health and well-being	1	Youth, Gender and Identity
24	Statistics	1	Statistical Methods	1	Applied Statistics
		2	Business Statistics	2	Biostatistics
25	Zoology	1	Economic Zoology	1	Parasitology
26	Nutrition and Deities	1	Fundamentals of Food and Health	1	Food Safety and Hygiene
		2	Health lifestyle and nutrition	2	Food & Adulteration
27	Food Technology	1	Food safety	1	Food & Nutrition
28	B.Sc. Economics	1	Managerial Economics	1	Reforms in Indian Economy
		2	Business Environment	2	Development Studies

4. COMMERCE:

Sl No	Subject/Course	OPEN ELECTIVE TOPICS			
		I SEMESTER		II SEMESTER	
1	B.Com	1	Financial literacy	1	e-Business
		2	Business Documents	2	Fundamental of Investment in Capital Markets
2.	B.Com - Tourism and Travel Management	1	Tourism in India - 1	1	Adventure Management Tourism
3	B. Com - Logistic and supply chain management	1	Procurement, storage and warehouse management	1	Commerce operations
4	B. Com- Insurance and Actuarial	1	Life insurance products	1	General Insurance Products
5	BBA	1	Tourism and Travel Management	1	Retail Management
		2	Event Management	2	Management of Non-Government organizations
6	BBA - Aviation Management	1	Air Ticketing and Fare construction	1	Logistics and Air Cargo Management
7	BHM	1	Service Quality Management	1	Hygiene & Food Safety
		2	House Keeping Decoration	2	Tourism and climate change

5. PHYSICAL EDUCATION:

Sl No	Subject/Course	OPEN ELECTIVE TOPICS			
		I SEMESTER		II SEMESTER	
1	Physical Education	1.	Sports Nutrition	1.	Yoga and Fitness
		2.	Sports Event Management	2.	Physical Fitness for Careers
		3	Yoga & Fitness	3.	Sports and Recreation

ಸುತ್ತೋಲೆ

ವಿಷಯ: ನೂತನ ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿ-2020ರಡಿ ವಿನಿಮಯಿಸಿರುವ Ability Enhancement Compulsory Courses ಮತ್ತು Skill Enhancement Courses ಗಳನ್ನು 1 ರಿಂದ 4ನೇ ಸೆಮಿಸ್ಟರ್‌ಗಳಲ್ಲಿ ಬೋಧಿಸುವ ಕುರಿತು ಮರು-ಸ್ಪಷ್ಟೀಕರಿಸುವ ಬಗ್ಗೆ.

- ಉಲ್ಲೇಖ: 1. ಉಪಾಧ್ಯಕ್ಷರು, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಉನ್ನತ ಶಿಕ್ಷಣ ಪರಿಷತ್ತು ಇವರ ಇ-ಮೇಲ್ ಪತ್ರದ ದಿನಾಂಕ: 22.12.2021.
2. ದಿನಾಂಕ: 05.01.2022ರಂದು ಜರುಗಿದ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸಾಮಾನ್ಯ ಸಭೆಯ ನಿರ್ಣಯ.
3. ವಿ.ವಿ. ಸುತ್ತೋಲೆ ಸಂಖ್ಯೆ.ಎಸಿಎ-2/ NEP-AECC-SEC/2022, ದಿನಾಂಕ 13.01.2022
4. ವಿ.ವಿ. ಅಧಿಸೂಚನೆ ಸಂಖ್ಯೆ.ಎಸಿಎ-2/Digital Fluency/2022, ದಿನಾಂಕ 27.01.2022
5. ಮಾನ್ಯ ಕುಲಪತಿಯವರ ಅನುಮೋದನೆ ದಿನಾಂಕ: 03.09.2022.

ಉಲ್ಲೇಖ (3)ರಲ್ಲಿ ಓದಲಾದ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಸುತ್ತೋಲೆಯಲ್ಲಿ NEP-2020 ರಡಿ ರಚಿಸಿರುವ ವಿನಿಯಮಗಳ ಅನ್ವಯ Ability Enhancement Compulsory Courses ಮತ್ತು Skill Enhancement Courses ವಿಷಯಗಳನ್ನು ಬೋಧಿಸುವ ಸಂಬಂಧ ಕೆಲವು ಸ್ಪಷ್ಟೀಕರಣಗಳನ್ನು ನೀಡಲಾಗಿತ್ತು.

ಸದರಿ ಸುತ್ತೋಲೆಯಲ್ಲಿ AECC ಅಡಿ ಬರುವ Environmental Studies ಮತ್ತು SEC ಅಡಿ ಬರುವ Digital Fluency ವಿಷಯಗಳನ್ನು ಯಾವುದಾದರೊಂದು ಸೆಮಿಸ್ಟರ್‌ಗಳಲ್ಲಿ ತಲಾ ಒಂದೊಂದು ವಿಷಯವನ್ನು ಅಭ್ಯಸಿಸಲು ಅವಕಾಶವನ್ನು ಕಲ್ಪಿಸಲಾಗಿತ್ತು. ಆದರೆ, ಬಹುತೇಕ ಕಾಲೇಜುಗಳಲ್ಲಿ ಮೊದಲನೇ ಸೆಮಿಸ್ಟರ್‌ನಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ Digital Fluencyನ್ನು ವಿಷಯವನ್ನು ಬೋಧಿಸಿದ್ದು, ಕೇವಲ ಬೆರಳಣಿಕೆಯಷ್ಟು ಕಾಲೇಜುಗಳಲ್ಲಿ ಮಾತ್ರ Environmental Studies ವಿಷಯವನ್ನು ಬೋಧಿಸಿರುವುದು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಗಮನಕ್ಕೆ ಬಂದಿರುತ್ತದೆ. ಇದೇ ರೀತಿ ಎರಡನೇ ಸೆಮಿಸ್ಟರ್‌ನಲ್ಲಿ ಬಹುತೇಕ ಕಾಲೇಜುಗಳು Environmental Studies ವಿಷಯವನ್ನು ಬೋಧಿಸಿರುವುದರಿಂದ ಬೋಧಕ ವರ್ಗದ ಕಾರ್ಯಭಾರವು ವರ್ಷಪೂರ್ತಿ ಸಮನಾಗಿ ಹಂಚಿಕೆಯಾಗಿರುವುದಿಲ್ಲ. ಹಾಗೂ ಇದರಿಂದಾಗಿ ವಿಶ್ವವಿದ್ಯಾಲಯದಲ್ಲ ಸಕಾಲದಲ್ಲ ಫಲತಾಂಶ ಪ್ರಕಟಣೆಯೂ ಸಹ ವಿಳಂಬವಾಗುವ ಸಾಧ್ಯತೆಗಳಿರುತ್ತದೆ.

ಈ ಹಿನ್ನೆಲೆಯಲ್ಲಿ, ಸ್ನಾತಕ ಪದವಿ ಕೋರ್ಸಿನ ಮೊದಲ ನಾಲ್ಕು ಸೆಮಿಸ್ಟರ್‌ಗಳ AECC ಮತ್ತು SEC ಅಡಿ ಬರುವ ನಾಲ್ಕು ವಿಷಯಗಳನ್ನು ಈ ಕೆಳಗೆ ನಿಗದಿಪಡಿಸಿರುವ ರೀತಿ ಬೋಧಿಸುವಂತೆ ಕ್ರಮವಹಿಸಲು ಕಾಲೇಜುಗಳ ಪ್ರಾಂಶುಪಾಲರುಗಳಿಗೆ ತಿಳಿಸಲಾಗಿದೆ.

SKILL ENHANCEMENT COURSES / ABILITY ENHANCEMENT COURSES:		
Semester	COURSES	
	BA/BSW/BPA/BHM/BBA Courses	B.Com courses/BCA/B.Sc/ and B.Sc. allied courses
First Semester	SEC: Digital Fluency	AECC: Environmental Studies
Second Semester	AECC: Environmental Studies	SEC: Digital Fluency
Third Semester	SEC: Artificial Intelligence	AECC: Constitution of India
Fourth Semester	AECC: Constitution of India	SEC: Artificial Intelligence

NOTE: For the above SEC and AECC courses the Evaluation process shall be as follows:

Theory Examination Marks is 30
Internal Assessment Marks is 20

ಈ ಮೇಲಿನ ಬದಲಾವಣೆಯನ್ನು 2022-23ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಿಂದ ಜಾರಿಗೆ ತರಲಾಗಿದ್ದು, ಸಂಯೋಜಿತ ಕಾಲೇಜುಗಳ ಪ್ರಾಂಶುಪಾಲರುಗಳು ಸದರಿ ಅಂಶಗಳನ್ನು ಕಟ್ಟುನಿಟ್ಟಾಗಿ ಪಾಲಿಸಲು ಸೂಚಿಸಲಾಗಿದೆ.

ಜಿ.ಎ.ಶೆಟ್ಟರ್
ಕುಲಸಚಿವರು

ಗೆ: ಸಂಯೋಜಿತ ಕಾಲೇಜುಗಳ ಎಲ್ಲಾ ಪ್ರಾಂಶುಪಾಲರುಗಳು, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.

ಪ್ರತಿಗಳು:

- ಎಲ್ಲಾ ನಿವಾಸಿಗಳ ಡೀನರುಗಳಿಗೆ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ.
- ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ), ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ.
- ಕುಲಪತಿಯವರು/ಕುಲಸಚಿವರು/ಕುಲಸಚಿವರು(ಮೌಲ್ಯಮಾಪನ)/ವಿತ್ತಾಧಿಕಾರಿಯವರು-ಇವರುಗಳ ಆಪ್ತಕಾರ್ಯದರ್ಶಿಗಳಿಗೆ, ಬಿಂ.ವಿ.ಬಿಂ-56.

No/ACA-II/III Sem OE/ASC/2016-17

Dated: 25/06/2016
04.12

NOTIFICATION

Sub: Choosing Open Elective Paper in III Semester at all PG courses under Faculties of Arts, Science, Commerce, Education and Law.

Ref : 1. Resolution of the Academic Council at its meeting held on 15.07.2015.

2. University Notification No.Aca-II/III Sem OE/ASC/2015-16 dated 23.6.2015

The Open Elective subjects have to be chosen by the students of III Semester. The Open Elective Paper is of 100 marks consisting of 4 units. The students are required to give their options in the prescribed format. The filled in and signed format shall be submitted to the Chairpersons/Coordinators of the respective PG Departments or the Principals of the PG Colleges offering PG Courses. It shall be submitted on or before 11th July 2016.

The respective Chairpersons/Coordinators of the PG Departments or Course and the Principals of the Colleges shall consolidate the same and submit it to the Academic Section – IV and Confidential Section of Examination with Register Number on or before 18/07/2016.

OPEN ELECTIVE UNDER SCIENCE FACULTY

Sl No	Subject	Elective Code	Title of the Elective
01	*Botany	305 (B)	1.Environmental Biology and Natural Resources 2.Ethnobotany
02	Sericulture/Life Science	LS304	Human Health and Hygiene
03	Biochemistry	304.2.	Biochemistry in Daily Life
04	Physics	P305	Physics and Our World
05	Electronic Media	T306	Skills for Broadcast Media
06	Geography	Paper 3.6	1.Geography for All 2.Geography and You
07	Library and Information Science	P306	Information Literacy
08	Environmental Science	ES304	1.Climate change and Current Issues 2. Natural Resource Management
09	Microbiology	MBO-304	Microbiology World
10	Biotechnology	BTO-304	Biotechnology for Human Welfare
11	Fashion and Apparel design	FAD 3.8	Fashion Design

12	Psychology		Psychology and Life
13	Chemistry	C-304	Chemistry in Daily Life
14	Zoology	304	Economic Zoology
15	Mathematics	M307(G)	Mathematics for Everyone
16	Molecular Biology	MLB-305	Applied Molecular Biology
17	MCA Programme		Cyber Space
18	Applied Genetics		Classical Genetics
19	Applied Geology		1. Minerals and Rocks 2. Ground Water Resources and Management
20	Statistics	ST304	Statistical Methods
21	Human Consciousness and Yogic Sciences	3.6	Yoga & Life
22	Home Science		Healthy Living and Nutrition
23	Electronics		Basics of Digital Electronics and Communication
24	Speech and Hearing		Disabilities and Care

OPEN ELECTIVES UNDER ARTS FACULTY

Sl No	Subject	Elective Code	Title of the Elective
01	English	vi.a	Write it Right
02	Social Work	OEP-NSS	Social Movements and Action
03	Rural Development	3.6	Co-operative Management
04	Political Science	3.6	Indian Politics Today
05	Women's Studies		Gender and Society
06	History	H.C-3-6	Social Movements in India
07	Urdu		Introduction to Urdu Language/ Urdu Gazal
08	Sociology		Themes & Perspectives in Sociology
09	Hindi		Samanya Hindi
10	Economics		Economics of Globalization
11	Kannada		1. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಮತ್ತು ಸಂಸ್ಕೃತಿಯ ಪರಿಚಯ 2. ಭಾಷಾಂತರದ ವಿವಿಧ ಪರಿಚಯಗಳು 3. ಕನ್ನಡ ಭಾಷೆಯ ಕಲಿಕೆ
12	Performing Arts		Performing Arts and Society
13	Communication		Media and Society
14	Telugu	3.6	Introductory Telugu
15	Sanskrit *		1.Sanskrit Made Easy : 2. Arthasastra 3. Sahitya
16	Gandhian Studies (Diploma Course)		Mahatma Gandhi and the Contemporary World
17	Dr. Ambedkar Studies		1.Economic Thought of Dr. Ambedkar 2.Socio- cultural and Religious Thought of Dr. Ambedkar
18	Foreign Languages		Basic French /Basic German
19	Visual Arts		Art Appreciation

20	Philosophy	Essentials of Indian Philosophy
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OPEN ELECTIVES UNDER COMMERCE FACULTY

Sl No	Subject	Elective Code	Title of the Elective
01	MBA	3.9	Management Perspectives
02	M.Com		1.Finance and Banking 2.Basics of Income Tax

EDUCATION, PHYSICAL EDUCATION & LAW

Sl No	Subject	Elective Code	Title of the Elective
01	Education		Pedagogy
02	Physical Education		Yoga and Wellness
03	Law		Human Rights

BY ORDER

[Handwritten Signature]

REGISTRAR 04/11/16

Note :

The minimum students for the above Paper shall be 15. The Open Elective Paper shall be conducted preferably on Saturdays.

To:

1. The Deans of the Faculties of Arts, Science, Commerce, Law, Education & Physical Education, BUB.
2. The Chairpersons of all the P.G. Departments, BUB.
3. The Principals of the Colleges where P.G. Courses are offered.
4. The Registrar (Evaluation), Bangalore University, Bangalore.
5. The Deputy Registrar, Academic Section-I & II, BUB.
6. The Deputy Registrar, Examination Branch, BUB(4) The Assistant Registrar, Academic Section-1,BUB.
7. The Director, Prasaranga, BUB-with a request to publish the same in the next University Gazette.
8. The System Analyst, BUB- with a request to please include this in the University website.

Form of Five options for the Open Elective

Name of the Candidate	
Name of the PG Course	
Subject	
Name of the College	
Subjects studied at UG level	1
	2
	3

Option No.	Open Elective Paper Title
1	
2	
3	
4	
5	

Note: The students are requested to give five options in the order of preference. The option should reach the respective Chairperson of the Department/Coordinator of the PG Courses or the Principal of the Colleges on or before the 11th July 2016, where the candidate is studying. The decision of the Committee to allot an Open Elective is final. The title of the open elective papers can be downloaded from the University website.