

1.3.1

Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum





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JAIPUR Sector 40, Meera Marg, Madhyam Marg, Mansarovar, Jaipur-302020 Wilfred's P.G. College Ph. 0141-2780436, 2780904 E-mail: <u>stwilfredscollege@gmail.com</u> Website: www.stwilfredscollege.60m Where the mind is without fear! Where the head is held high!!



1.3.1 Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

Education is the most powerful weapon which can be used to change the world. This part of the curriculum consists of courses awareness on cross cutting issues like Gender sensitization, and environment and sustainability. These courses help students to apply analytical thinking in solving issues. Inculcation of values which are the guiding principles of life, be it physical, mental or social well-being is addressed by value education course.

Gender Sensitization

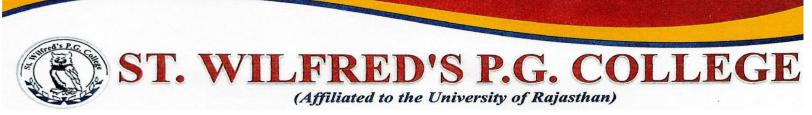
• Women Development-Issues and concerns, Women Empowerment through these courses. Women's Rights Awareness and Women's studies educate the students on gender equality. Women Empowerment Cell organizes a number of programmes like self-defense, women's rights and sessions on gender equity to supplement the above courses.

Environment and Sustainability

- The course on Environmental studies which as prescribed by UGC. It enables a holistic understanding of the environment and develops favorable attitude and habits to protect and preserve nature.
- The course on Environmental Literature orients the students on the reaction and behavior of individual in relation to ecological issues.
- Research is carried out pertaining to environmental issues and challenges to find probable solutions in the programmes like Biotechnology, English and chemistry.

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- In addition, a course on Environmental Biotechnology is included in the curriculum of Biotechnology to create awareness on environment sustainability.
- Nature Club organizes a number of programmes like awareness campaigns, rallies, street plays and environmental development projects to involve students to work towards environmental sustainability. The constant effort of the NSS team in the Swachh Bharat Mission promotes cleanliness and hygiene in the campus and surrounding areas and in the adopted villages.

Professionals Ethics

- Courses are offered on Professional Ethics and Values, Business Ethics, Business Etiquettes and Corporate Culture to develop professionally accepted standards of personal and business behavior, values and guiding principles.
- These courses are offered to build and enhance holistic personality in every student.
- Consumer Rights Club educates students on consumer welfare and protection, and Campus to Corporate Club inculcates professional behavior among the students.

Human Values

- The course on Value Education with topics like human values, selfintrospection, family and social values, inter-culture tolerance, social problems and online crimes, helps the students to understand the values and reflect them in their attitude and behavior and contribute to the society.
- Many courses that deal with ethics, human values, human rights and gender sensitization are offered

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 \blacktriangleright To tone the students with strong moral compass

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- To instill the values of democratic decentralization and participatory democracy
- > To promote the values of social and economic equality
- To help the students develop attitudes, behaviors and personality in accordance with the expected social norms and values





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INDEX

S.No.	Year	Cross Cutting Issues			Total	
		Gender Sensitization	Environment and Sustainability	Human Values	Professional Ethics	
1	2018-19	5	37	16	8	66





elda T Principal (Dr. FAREEDA HAŠANI)

JAIPUR Sector 40, Meera Marg, Madhyam Marg, Mansarovar, Jaipur-302020 Wilfred's P.G. College Ph. 0141-2780436, 2780904 E-mail: stwilfredscollege@gmail.com Website: www.stwilfredscollege.com Where the mind is without fear! Where the head is held high!!



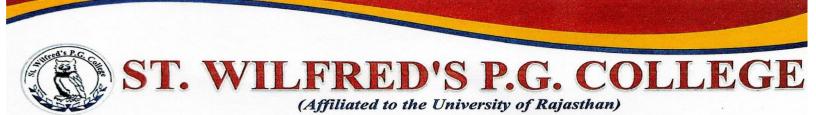
<u>Gender Equality, Human Values and Professional Ethics, Environment Sustainability in Curricular and teaching learning material of BCA-PT-I/PT-II/PT-III</u>

BCA-PT-I Session – 2018-19

S. No.	Course code	Course Name	Description	Cross cutting issues relevant to Gender Sensitization/ Human & Professional Values / Environment Sustainability
	BCA- 106	<section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header>	Teaches a student to use authentic ways of web designing.	Professional Ethics

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St. WILERPD'S DO	Le JAIPON	(Dr. FAREEDA HASANI)
JAIPUR Sector 40, Ph. 0141-2780436, 2780904	Meera Marg, Madhyam Marg, Mansarovar E-mail: stwilfredscollege@gmail.com We	, Jaipur-302020 Wilfred's P.G. College

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BCA-PT-II

S.no	Course code	Course Name	Description	Cross cutting issues relevant to Gender Sensitization/ Human & Professional Values / Environment Sustainability
1	BCA- 205	CLOUD COMPUTING BCA-205: Cloud Computing Max Marks: 100 Max Marks: 100 Marks: 100	Teaches a student to understand the professional way of Social Networking and Data security.	Professional Ethics

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F. WILFRED'S P.G. COLLEGE

(Affiliated to the University of Rajasthan)

Unit-II

Cloud Computing Architecture : Introduction, Cloud Reference Model. Architecture. Infrastructure / Hardware as a Service, Platform as a Service, Software as a Service. Types of Clouds, Public Clouds, Private Clouds, Hybrid Clouds, Community Clouds. Economics of the Cloud, Open Challenges, Cloud Interoperability and Standards. Scalability and Fault Tolerance. Parallel and distributed Computing-MapReduce. . Hadoop, High level Language for Cloud, Service Oriented Computing.

Unit-III

Virtualization: Introduction, Characteristics of Virtualized Environment. Taxonomy of Virtualization Techniques, Virtualization and Cloud computing, Virtualization: of CPU. Memory, I/O Devices, Server , Desktop, Network, and data-center. Pros and Cons of Virtualization, Technology Examples- VMware and Microsoft Hyper-V,KVM. Xen.

Unit-IV

Introduction of Cloud security services, Design Principles, Policy Implementation, Cloud Computing Security Challenges, Cloud Computing Security Architecture. Cloud Security Tools and technologies to secure the data in Private and Public Cloud Architecture. Security Concerns, Legal issues and Aspects, Multi-tenancy issues. Risk area of Cloud computing, Data Security in Cloud: Risk Mitigation, Understanding and Identification of Threats in Cloud, SLA-Service Level Agreements, Trust Management.

Unit-V

Cloud Platforms in Industry: Amazon Web Services- Compute Services, Storage Services, Communication Services and Additional Services. Google AppEngine-Architecture and Core Concepts, Application Life-Cycle, cost model. Microsoft Azure-Azure Core Concepts, SQL Azure. Integration of Private and Public Clouds Cloud applications: Protein structure prediction, Data Analysis, Satellite Image Processing. CRM and ERP, Social networking.

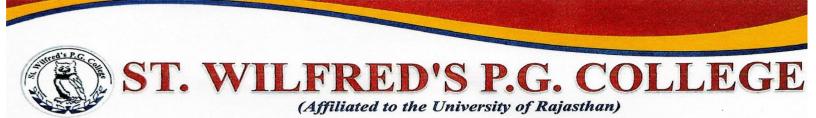
Recommended Books:

- Cloud Computing ,Principle and Paradigms, Edited By RajkumarBuyya, JemesBroberg, A. 1. Goscinski, Pub.- Wiley-2016
- Kumar Saurabh, "Cloud Computing", Wiley Pub 2016 3
- Mastering Cloud Computing by Rajkumar Buyya, Christian Vecchiola, S.Thamarai Selvi from TMH 2013. 4
- Distributed and Cloud Computing, Kai Hawang . GeofreyC.Fox, Jack J. Dongarra Pub Krutz , Vines, "Cloud Security ", Wiley Pub, 2010
- Velte, "Cloud Computing- A Practical Approach", TMH Pub,2009
- Katarina Stanoevska-Slabeva, Thomas Wozniak, SantiRistol, "Grid and Cloud Computing -A Business Perspective on Technology and Applications". Springer.2010

20 Pj Jan Dy. Bogisteer (Acad.) Unit Sity of Rajasshin



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BCA PT – III

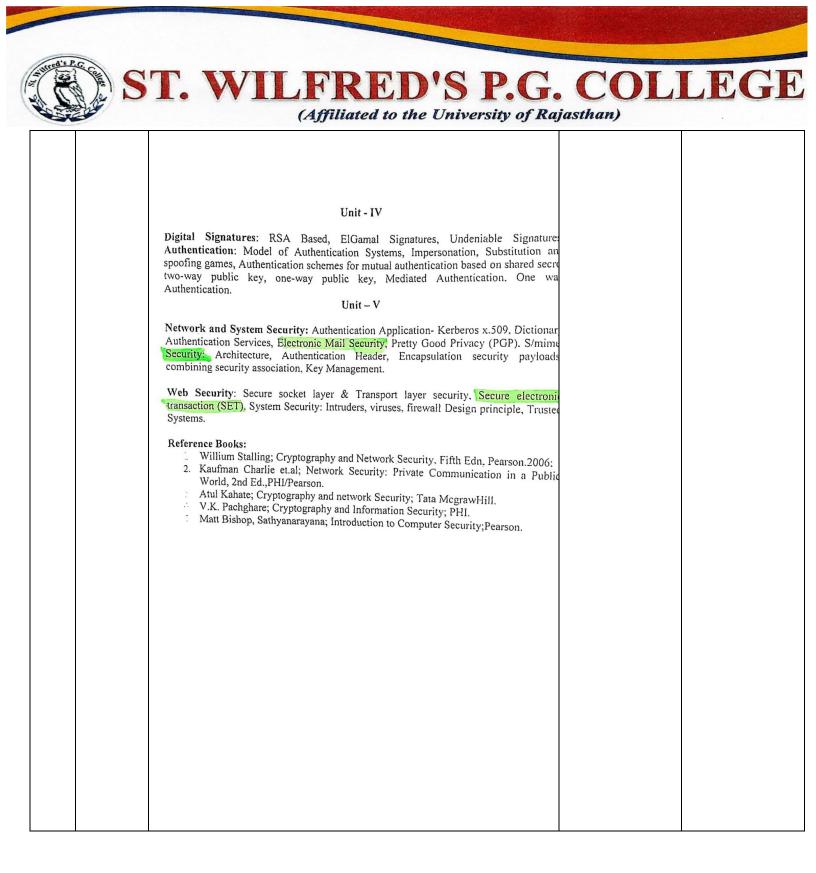
S.no Course code	Course Name	Description	Cross cutting issues relevant to Gender Sensitization/ Human & Professional Values / Environment Sustainability
1 BCA CO2	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Helps students to understand Security attacks and Electronic Mail Security in a professional way.	Professional Ethics

Principal (Dr. FAREEDA HAŠANI) St. WILFRED'S P.G. COLLEGE 0, Meera Marg, Madhyam Marg, Mansarovar, Jaipur-302020 Wilfred's P.G. College JAIPUR Sector 10, Meera Marg, Madhyam Marg, Mansarovar, Jaipur-302020 Ph. 0141-2780436, 2780904 E-mail: <u>stwilfredscollege@gmail.com</u> Website: www.stwilfredscollege.com Where the mind is without fear! Where the head is held high!

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<u>Gender Equality, Human Values and Professional Ethics, Environment Sustainability in Curricular and teaching learning material of BA-PT-I/PT-II/PT-III</u>

BA-PT - I

Session-2020-21

S. No.	Course code	Course Name	Description	Cross cutting issues relevant to Gender Sensitization / Human & Professional Values / Environmen t Sustainabilit y
1	BA PT-I Environm ental Studies	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Sensitize students towards environment sustainability.	Environment Sustainability

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ede Principal (Dr. FAREEDA HASANI)

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	8 Syllabus : B.A. Part-J
	 Role of an individual in conservation of natural resources.
	Equitable use of resources for sustainable lifestyles.
	Unit 3: Ecosystems, Concepts, Structure, Functions and Types
	Concept of an ecosystem Structure and function of an ecosystem
	Producers, consumers and decomposers
	Energy flow in the ecosystem
	 Ecological succession
	 Food chains, food webs and ecological pyramids
	 Introduction, types characteristics features, structure and function of t following ecosystem:
	a. Forest ecosystem, Tropical Temperate and Alpine Ecosystem
	b. Grassland ecosystem and Their Types
	c. Desert ecosystem with emphasis on Thar Desert
	d. Aquatic ecosystems(ponds, streams, lakes, rivers, oceans, estuaries) and Wet Lan
	Unit 4: Biodiversity and its conservation
	 Introduction –Definition, genetic, species and ecosystem diversity Biogeographically classification of India
	 Value of biodiversity :consumptive use, productive use, social ethical., aesthe and option values
	 Biodiversity at global, National and local level
	 India as a mega-diversity nation
	Hot-sport of biodiversity
	 Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife confli Endangered, Threatened and order in the state of the s
	Conservation of biodiversity: In-situ and Ex situ
	Unit 5: Environmental Pollution and Control Measures
	Definition
	 Causes, effects and control measures of: a) Air Pollution
	b) Water Pollution
	c) Soil Pollution
	d) Marine Pollution
	T OTTITION.
	Dist
	Dy. Register
	By. Registrar (Academic University of Raiasthan Jainur
	Jaipur Jaipur



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	9 Syllabus : B.A. Part-I
	e) Noise Pollution
· . · . · ·	f) Thermal Pollution
- Cler	g) Nuclear Hazards
<u>ي</u> ې س	 Solid waste management" Causes, effects and control measures of urban and industrial wastes
8	Role of an individual in prevention of pollution
*	Pollution case studies
.*	Disaster management: floods earthquake, cyclone and landslides
5	
	Unit 6 : Social issues, Environment, Laws and Sustainability
	From Unsustainable to Sustainable development
	Urban problems related to energy
	Water conservation, rain water harvesting, watershed management Case
A A A A A A A A A A A A A A A A A A A	 Resettlement and rehabilitation of people; its problems and concerns. Case studies
· .	 Environmental ethics: Issues and possible solution. Climate change, global warming, acid rain ozone layer depletion, nuclear
	Climate change, global warning, acti fail ozofie layer copracts, accidents and holocaust. Case studies
	Wasteland reclamation.
	Consumerism and waste product.
	Environmental Protection Act.
×	Air (Prevention and Control of Pollution)Act
	Wild life protection Act
	Forest Conservation Act
	Biological Diversity Act
12.1	Issues involved in enforcement of environmental legislation
·· 7	Public Awareness. Unit 7: Human Population and the Environment
	 Population growth, variation among nations Population explosion-Family Welfare Programme Environment and Human health Human Rights Value Education HIV/AIDS
	 Women and Child Welfare Role of Information Technology in Environment and human health
12	Case Studies
-	Dy. Registrar (Academic-I)
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Basic Psycholog stutow ical Processes 1. Processes 1. Introduction: Definition and Goals of Psychology; History- Structuralism, Functionalism, Behaviorism, Gestalt and Psychoanalysis; Modern Perspectives-Biological, Psychodynamic, Behavioral, Cognitive, Humanistic, Evolutionary and Socio-cultural; Methods- Observation, Case Study, Surveys and Experimental. Processes	ensitize udents owards sues egarding uman values nd rofessional thics	Human Values and Professional Ethics

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St. WILERPD'S DEAD	(INIPUR) .	(Dr. FAREEDA HASANI)
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BA PT-I	Social Psychology	Sensitize	Human
		students	Values
Social		towards	
Psycholog		issues	
Y	Paper II - Social Psychology	regarding	
	Section	human	
	 Introduction: Meaning, Nature, Scope and Goals of Social Psychology. Methods of Social Psychology: Experimental and Non-Experimental Methods. 	values.	
	 Social Psychology: Experimental and Non Experimental and Non Experimental and Non Experimental and Nature; Social Perception and Person Perception: Social Perception- Meaning and Nature; 		
	Perceptual		
	Perceptual Defense, Perceptual Accentuation and Subliminal Perception. Person Perception: Meaning and Nature, Role of Non-verbal Cues; Perceivers' Characteristics and		
	Role of Ongoing Interaction. Change and Measurement.		
	C diam D		
	Discrimination: Nature and Origin; Reduction of Prejudice and		
	4. Prejudice and Discrimination. Nature and one of the prejudice and Need to		
	 Interpersonal Attraction: Proximity and Affective basis, Acquaintance and received 		
	6 Leadership: Definition and Functions; Types of Leadership: 1111, 2111,		
	Contingency Approaches.		
	Section-C		
	 Communication: Meaning, Nature and Types: Verbal and Non-verbal; Barriers in Communication. 		
	8. Pro-Social Behavior: Personal, Situational and Socio-Cultural Determinants. Explaining Pro-		
	Social Behavior: Empathy, Altruism Hypothesis, Negative-State Relief Model, Emphatic-Joy Hypothesis and Genetic-Determinism Model.		
	 Benphatic-Joy Hypothesis and October Determinant Robert Aggression and Social Problems: Aggression- Theories, Determinants, Prevention and Control; Social Problems - Meaning and Nature; Types of Social Problems - Poverty, Deprivation, Population Explosion, Economic Development; Solutions to 		
	Poverty, Deprivation, replication Explosion, Scotlenke Severephone, Solutions to Social Problems.		
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	n nakology Nolua, Dolling Kindelsley boudi Asia.		
	proscombe, N.R. & Baron, K.A. (2010). Social Psychology. Noida Pearson India		
	= t_stion		
	Marine D.G. (1994). Exploring Social Psychology. New York: McGraw Hill		
	अरुणकुमारसिंह, (2002), समाजमनोविज्ञानकीरुपरेखा, योतीलालबनारसीदास, दिल्ली अरुणकुमारसिंह, (2002), समाजमनोविज्ञानकीरुपरेखा, योतीलालबनारसीदास, दिल्ली		

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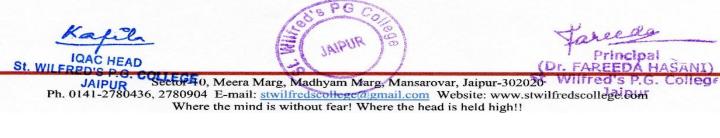
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BA PT-I	Physical Geography	Sensitize	Environment
		students	Sustainabilit
Physical		towards	
Geograph	w, 4, 85	environment	
У	Paper I: Physical Geography	sustainability.	
	Section A		
	Definition, scope and development of physical geography, geological fishtiry of the Earth; zoning of Earth's interior, rocks, origin of continents and oceans; continuinal drift theory and plate tectonics; concept of isostay: views of Airy, Pratt, Joly and Holmes. Barth movements: epeirogenic and orogenic; mountain building theories; Robers defineys, Lialy, Joly and Holmes and plate tectonics; denudation, cycle of crossion: views of W.M. Davis and W. Penck, erosional and depositional topographies; river, under province state, drand and oceanic waves.		
	Section B		
	Composition and structure of the atmosphere, insolation, air temperature, air pressure, pressure belts and planetary winds, monsoon and local winds, humidity, classification of clouds and precipitation, air musses, fronts and cyclones, tropical and temperate, classification of the world climates: Koppen and Thorthwaite, general climatic classification		
	Section C		
	Surface configuration of occans bottom: Pacific, Atlantic and Indian docans, decent allotistics, horizontal and vertical temperature of occans, occanic salinity, titles, occanic views and currents, coral reefs and their origin: views of Darwin and Daris, W.M. Davis, Williag classification of maxime resources, biosphere and its components; ectivities, Davis, Milliag community and animal kingdom, biomes: equatorial rainforest, monscont, savants; and temperate grasslands.		
	Recommended Resillings:		
	नोहान, वी.एस. थ गौराग, ए. 2005, भौतिक भूगोल (जीवमण्डल संदिर्ग)। ररसोगी एब्लिकिशन्स वेरत। याल, पी. 2012, भौतिक भूगोल। राजेश पविस्कंशन्स नई तिज्ली।		
	וואיזה אותה אור אולביה אולביה אורייה אייריא אורייה		
	iusian, N. 2001, Pupulmentals of Physical Geography. Rawat Publication, Jaipur. Icss, D. 2012: Physical Geography : A Lundscape Appreciation, PHI Learning Private imited, New Delhi, Mokrnight's Text Edition. hullar, D.R. 2012: Physical Geography. Kalyani Publishers, New Delhi . ह. सयिन्द, 2005: भू-आर्म्होरी विद्यानि । तारा प्रदिलके १न वार्षणोक्ती ।		
	्रम्प्र, अगे एम एल एकड भिक्षा अर्रपा राजन प्रतिक पतन, ईलीहोंगांस।		
	ष्ठ, साधन्द, २०११ भगतिक भूगाल का स्वरूप। प्रयाग प्रताक भगेल, ईलीहोंबी। । एम एन. अभी एम. एल. एल्ड निआ, आर.एल. टक्का भौतिक भूगोल। पंतर्शाल प्रवासन जयपुर। जनाव, R.C. जगत Vatal M. 1999 Oceanography, for Geographers. Chailanya Publishing use, All. diabact.		
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	University of Kajastan		

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Kafila	ANDUR E	Jareeda
St. WILFRED'S P.C.	- (JAINON	(Dr. FAREEDA HAŠANI)

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BA PT-I	(Affiliated to the University of Rajasth Introduction to Anthropology	Sensitize	Human
ntroducti	Introduction to Anthropology	students towards	Values
on to Anthropol ogy	Paper I- Introduction to Anthropology	issues regarding	
65	Meaning and subject matter of Anthropology. History of Anthropology. Branches of Anthropology: (a) Social-Cultural Anthropology (b) Physical Anthropology (c) Archaeological Anthropology, (d) Linguistic Anthropology Relationship of Anthropology with Social Sciences, Natural Sciences and Medical Sciences.	human values.	
	Unit-II Basic Concepts : Culture, Society, Community, Group, Institution. Human Institutions: Family: Definition and functions. Family as the corner stone of human society. Form and Types of family. Joint family system in India. Changes in the institution of family. Marriage: Definition and function in society. Forms and types of marriage. Bridewealth and Dowry. Marriage regulation in India.		
	Unit – III Kinship: Meaning of kinship and its role in society. Types of kins. Kin groups unilineal: lineage, clan, phratry, moiety. Kinship behaviour: Avoidance and Joking relationship. Religion: Meaning and role of religion. Theories of origin of religion: Animism and Animatism. Relation of religion to other social institutions. Magic: Definition and types.		
	Readings Books :-		
	Beattie John, 1964, Other Cultures: Aims, Methods and Achievements in Social Anthropology, London, Routledge and Kegan Paul Ltd. Fox Robin, (1983), Kinship and Marriage, Cambridge, Cambridge University Press. Hasnain Nadeem, 1962, General Anthropology, New-Delhi, Jawahar Publishers & Distributors.		
	Herskovits Melville Jean, 1948, Man and His works: The Science of Cultural Anthropology, New York, A.A. Knof.		
	Madan T.N. and Majumdar D.N., 1957, An Introduction to Social Anthropology, Bombay, Asia Publishing House (Hindi & English) Mair Lucy, 1965, An Introduction to Social Anthropology, New Delhi, Oxford University Press.		
	Dy. Registrar (Academic-I) University of Rajasthan Jaipur		





BA- PT- II

S.	Course code	Course Name	Description	Cross cutting
No.			-	issues relevant to
				Gender
				Sensitization/
				Human &
				Professional
				Values /
				Environment
				Sustainability
1	BA PT-II	Sociology of Village	Sensitize students	Human Values and
1	DA P1-11	Sociology of Village		
	Paper II:		towards issues	Gender
	Sociology of	Syllabus : B.A. Part-II Paper II: Sociology of Village	regarding human	Sensitization
		Max Marks: 100 Unit 1: Introduction to Rural Sociology	values and gender	
	Village	 Concept of Rural Sociology & its Development Basic Concepts : Village, Peasant Society, Agrarian Structure, Little, Great & 	sensitization	
		Multiple traditions, Rural-Urban Continuum • Features of Economy & Polity in relation to village		
		Unit 2: Social Structure of Village		
		 Family, Caste, Kinship and Gender Religion and Village Life 		
		 Formal and Informal Administrative Structures : Village Panchayats, Caste Panchayat 		
		Unit 3: Change in Indian-Village Structure Agrarian Distress in Villages : Suicide, Indebtedness, Poverty 		
		Agrarian Movement in India		
		• Impact of Urbanization & Globalization in Village Systems Essential Readings: (in English):		
		 Desai A.R., 1959: Rural Sociology India, Popular Prakashan, Bombay. Rao M.S.A., 1874: Urban Sociology in India, Orient Longman, New Delhi. 		
		 Desai A.R., 1979: Rural Sociology India in Transition, Popular Prakashan, Bombay. 		
		 D'Souza Alfred, 1978: The Indian City, Poverty, Ecology and Urban Development, Manohar Publication, New Delhi. Ramkrishana Mukarjee, 1957: The Dynamics of Rural Society, Berlin. 		
		5. Ramanamana biokarjeć, 1957. The Dynamics of Rural Society, Berlin.		
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		University of Rajasthan Jaipur		
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elda Principal (Dr. FAREEDA HAŠANI)

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	F. WILFRED'S (Affiliated to the Univ		ajasthan)	
2 BA PT- II Paper III: Human Development	University	Hours 6 4 4 6 5 8 8 10 10 10 10 10 W.H. Freeman and	Sensitize students towards issues regarding human values and gender sensitization	Human Values and Gender Sensitization

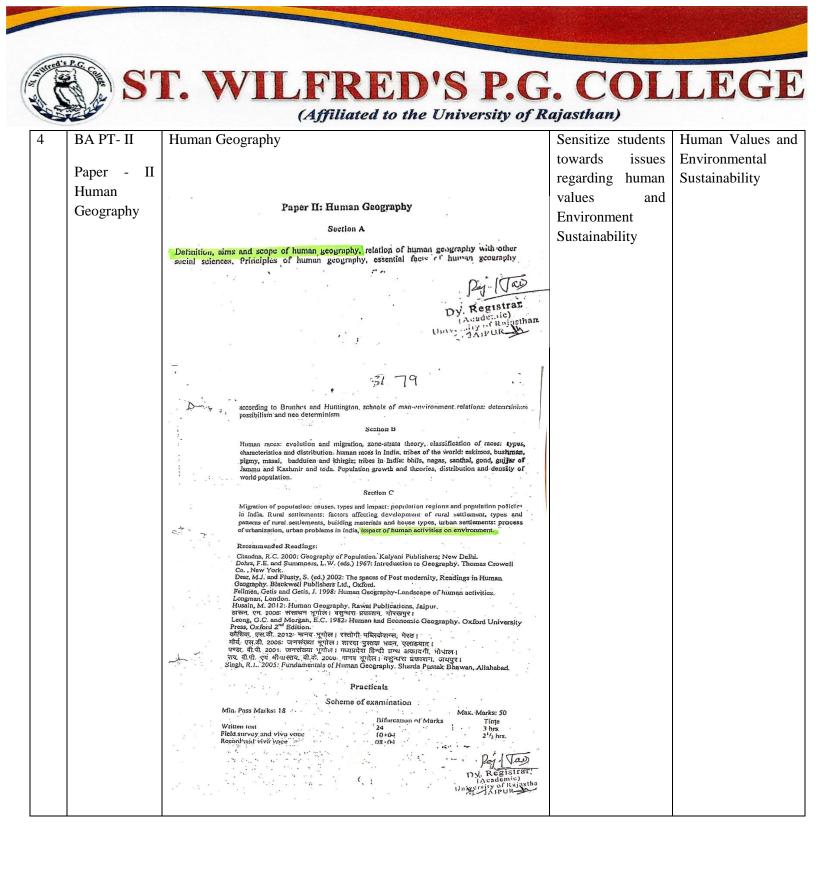
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IQAC HEAD	(JAIPUN) °	(Dr. FAREEDA HAŠANI)
JAIPIID Sector-10	, Meera Marg, Madhyam Marg, Mansarovar, E-mail: stwilfredscollege@gmail.com Web	Jaipur-302026 Wilfred's P.G. College

0141-2780436, 2780904 E-mail: <u>stwilfredscollege@gmail.com</u> Website: www.stwilfredscollege.com Where the mind is without fear! Where the head is held high!!

BA PT- II	Resource Geography	Sensitize students	Human Valu
Daman		towards issues	Environment
Paper - I Resource		regarding human	Sustainability
		values and	
Geography	Paper I: Resources Geography	Environment	
		Sustainability	
	Section A		
	Nature, scope and significance of resources geography, definition and classification of resources; renewable and non renewable resources, resource classification of Zimmeimar, Natural Resources: Distribution, exploitation, uses and conservation of forest, water, soils, fisheries, mineral resources, energy resources (coal, petroleum, natural gas and non-		
	conventional energy resources).		
	Section B .		
	Human resources: Population growth, distribution and density, causes of inequalities, population-resources relationship and problems, Agricultural resources: fisheries and caread crops: rice, wheat, maize and barley; beverages: tea, coffee and tobacco, commercial crops: cotton, rubber, jute, sugarcane, silk and artificial fibres. Agricultural regions of the world.		
	Section C		
	Concepts of Resources utilization, their conservation, environmental and cultural constraints in resource utilization, water conservation and minwater harvesting, soil and forest resources conservation, land capability classes, resources regions of the world, resources regions of the India, economic regions of the India, sustainable development.		
	Recommended Readings:		
	Alexander, E.W. 1988: Economic Geography. Prentice Hall India, New Delhi. Bunting B.C., 1987: The Geography of Soil. Prentice hall; New York. कोशिक एस.सी. 2010: संसाधन भूगोल। रस्तोगी परितकेशन्स, मेरद (
	माधुए. थी. 1998: सोसायन भूगोल। रस्तोगी प्रकाशन, मेरठ। Mitchell, Bruce. 1979: Geography and Resource Analysis. Longmans, London. Park, C.C. 2001: The Environment-Principles and applicatons. Routledge, London. Robinson, O.W. 1932: Soils, their Origin, Constitution and Classification. London. Shafi, M. 2004: Agricultural Geography. Pearson India.		

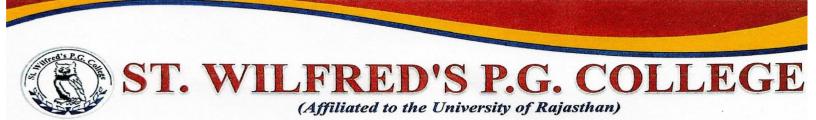
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JAIPUR Sector 40, Meera Marg, Madhyam Marg, Mansarovar, Jaipur-302020 Wilfred's P.G. C Ph. 0141-2780436, 2780904 E-mail: <u>stwilfredscollege@gmail.com</u> Website: www.stwilfredscollege.com Where the mind is without fear! Where the head is held high!!





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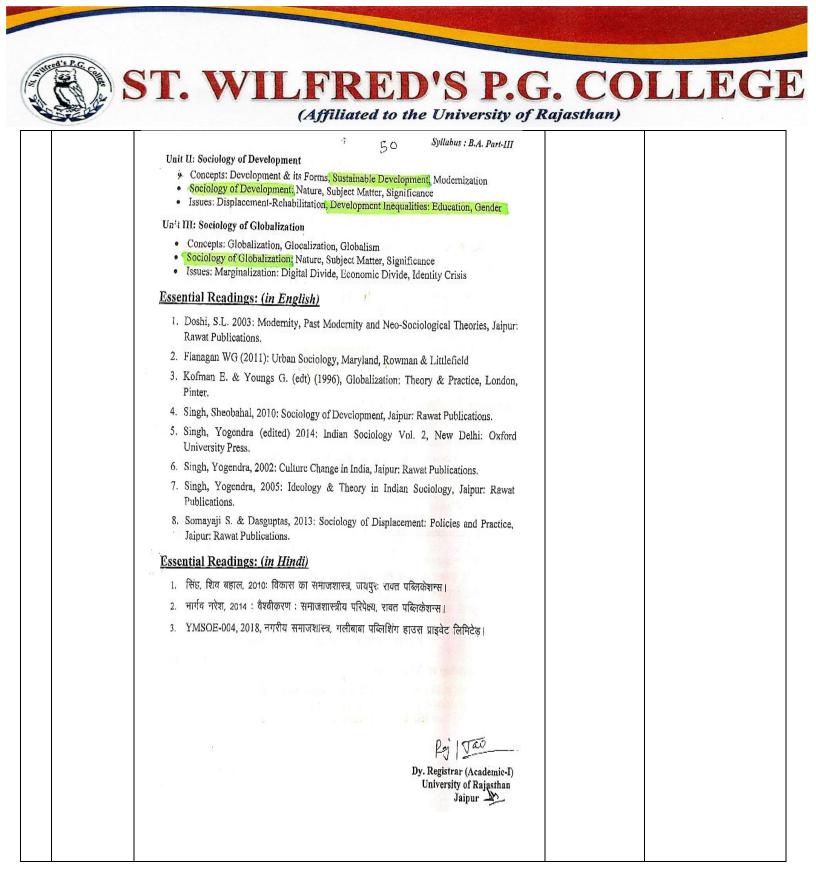


BA PT- III

S. N o.	Course code	Course Name	Description	Cross cutting issues relevant to Gender Sensitization/ Human & Professional Values / Environment Sustainability
1	BA PT- III Paper II: Introducin g Sub Sociologie s	Introducing Sub Sociologies Paper II: Introducing Sub Sociologies Max Marks: 100 Unit I: Sociology of Urban Society • Concepts: City and its Types, Urbanization, Urbanism, Migration • Urban Sociology: Nature, Subject Matter, Significance • Issues: Slums, Health and Sanitation Dy. Registrar (Academic-I) University of Rajasthan Jaipur	Sensitize students towards environment sustainability	Environment Sustainability



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ST. WILFRED'S P.G. COLLEGE (Affiliated to the University of Rajasthan) BA PT- III **Environmental Economics** Sensitize Environment students Sustainability Paper II: towards Environme environment Paper- II (b): Environmental Economics ntal sustainability Section -- A **Economics** Environmental Economics: An Introduction; Review of Microeconomics and Welfare Economics; The Theory of Externalities: Pareto Optimality and Market Failure in the Presence of Externalities; Property Rights and the Coase Theorem; Sustainable Development: Concepts and Measurement. Poj [Jay Dy. Registrar (Academic-I) University of Rajasthan Jaipur . 00 Syllabus : B.A. Part-III Section-B Development and Environment: The Environment Kuznets Curve; Trade and Environment; Environmental Problems; Trans-boundary Environmental Problems: Global Warming and Climate Change; Methods of Environment Valuation: Hedonic Pricing, Contingent Valuation Method and Travel Cost Method. Section-C International Environmental Policy: Conventions and Treaties, UN Effort to Protect the Environment, Stockholm, Rio, Johansberg, Agenda 21, OECD Environmental Committee Report, Kyoto, Convention on Biodiversity, Paris Climatic Conventions; Environmental Governance in India; WTO and Environment. **Recommended Books:** 1. Charles Kolstad, Intermediate Environmental Economics, Oxford University 2. Robert N. Stavins (ed.), Economics of the Environment: selected Readings, 3. Roger Perman, Yue Ma, James McGilvray and Michael Common, Natural Resource and Environmental Economics, Pearson Education/ Addison Wesley, 3rd edition, 4. Maureen L. Cropper and Wallace E. Oates, 1992, "Environmental Economics: A Survey", Journal of Economic Literature, Volume 30 nn 675 and

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	ST. WILFRED'S P. (Affiliated to the University o		LLEG
BA PT- III Paper I: World regional geography	 World regional geography Paper I: World Regional Geography Paper I: World Regional Geography Section A Asia: Terrain Pattern, Drainage, Climate, Natural Vegetation, Soils, Population and Economic Base of the Continent In General: Regional Study of South-East and Sourper: Terrain Pattern, Drainage, Climate, Natural Vegetation, Soils, Population and Economic Base of the Continent In General: Regional Study of South-East and Sourper: Terrain Pattern, Drainage, Climate, Natural Vegetation, Soils, Population and Economic Base of the Continent In General: Regional Study of South-East and Sourper: Terrain, Pattern, Drainage, Climate, Natural Vegetation, Soils, Population and Economic Base of the Continent In General: Regional Study of New England and Brazil. North and South America: Terrain Pattern, Drainage, Climate, Natural Vegetation, Soils, Population and Economic Base of the Continent In General: Regional Study of New England and Brazil. Section C Australia and New Zealandf, Terrain Pattern, Drainage, Climate, Natural Vegetation, Soils, Population and Economic Base of Australia and New Zealand In General. Regenation, Soils, Population and Economic Base of Australia and New Zealand In General. Regenation, Soils, Population and Economic Base of Australia and New Zealand In General. Regenation, Soils, Population and Economic Base of Australia and New Zealand In General. Regenation, Soils, Population and Economic Base of Australia and New Zealand In General. Regenation, Soils, Population and Economic Base of Australia and New Zealand In General. Regional Study of New York. Bekenson, J.P. et al. 1996. The Geography of Chunal Regional Geography : Issues for Conton. Bascon, R.H. and Hudiman, L.F. 1991. World Regional Geography : Issues for Conton. Makson, J.P. et al. 1995. Geography of Chanal And the United States, Oxford University Press. May P.P. Geography of	Help students to learn environmental issues with regard to make a sustainable environment.	Environmental Sustainability

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IQAC HEAD St. WILFRED'S P.G. COLLECE	E (JAIPON)	(Dr. FAREEDA HASANI)
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JAIPUR Sector 10, Meera Marg, Madhyam Marg, Mansarovar, Jaipur-302020 Will Ed S P.G. Co Ph. 0141-2780436, 2780904 E-mail: <u>stwilfredscollege@gmail.com</u> Website: www.stwilfredscollege.com Where the mind is without fear! Where the head is held high!!

ST. WILFRED'S P.G. COLLEGE (Affiliated to the University of Rajasthan) BA PT- III Geography of India Help students Environmental to learn Sustainability Paper II: environmental Geography issues with Paper II: Geography of India 2 of India regard to Section A . 1. 1 make а India in the context of South and Southeast Asia, geological, structure, physiographic sustainable divisions, climate: seasons, mechanism of Indian monspon, major climatic regions; ver Nation, major soils and regions; drainage system, water resources and irrigation projects: Systes, mineral and power resources: their utilization policy and conservation strategies. environment. Section B Agriculture:-typology, major crops, changing pattern of crops, agricultural growth during plan pariod and grean revolution, livetnock resources and their development, industrial growth and development; industrial localization with reference to iron and steel, conton textile, omnem and chemical industries, industrial regions, population, growth, distribution, problems, policy implication, trends of urbanization and human resource development. Section C Regional disparities in economic development, planning and sconomic regions of India, multikwel planning, problems and prospects of linking of rivers, environmental issues in India, transport development: rail, road, air and waterways, foreign trader challenges and Recomm aded Readings: Cautan, Alka, 2010: Geography of India, Restord Publications, Meerut. Copal Kristman, R. 2001: Geography of India, Jawaber Publishers & Distributions, New Dethi, 2⁴⁸ Edition Dech, 'F Bennon Khullen, D.R. 2006. India a comprehensive Geography; Kalyani Publishers, New Delhi মামীয়ে, মৌ. 1988: আন্ত্রিক মাত্র ক্রুক দুরুর। আইবে ক্রেক আইকেটালা, রালের। Robiomion, New Delhi. Publication, New Leain. Singh, G. 1998: A Geography of India, Anna Ram & Sona, Daihi, Sioch Edition. Singh, R.J. (ed.) 1971: India: A Ragional Geography. MCSI, Varacasi. Span, O.H.K. and Learmonth, A.T.A. 1967: India and Patcham, Land, People and Economy, Anatom and Co., Loncon. Titta, R 2000: Geography of Incia, Rowar Publications, Inipur 2nd Edition (Incia) रियार आरसी २०१३ भारत का नुगेल। त्यान दुन्द्राय नवन, इलाहाबाद। Practicals Scienc of Economication Min. Pass Maria: 18 Cartier 30 Nitigen Leve Elderation of Marks and any other and when the 10~54 08~64 2'rahr an Tai 5 No STATES 5 BA PT- III Sociological Thought Sensitize Human Values students Paper I: towards issues Sociologic regarding al Thought human values PG

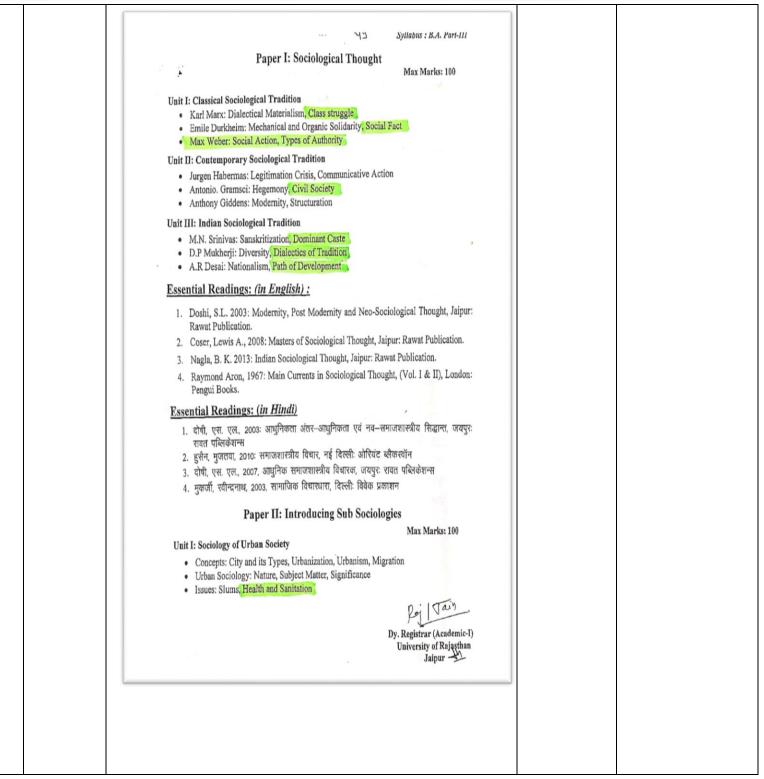
Kafil IQAC HEAD St. WILFRED'S P.O. COLLEGEO, Meera Marg, Madhyam Marg, Mansarovar, Jaipur-302020 Wilfred'S P.G. College JAIPUR Principal (Dr. FAREEDA HASANI) Wilfred'S P.G. College

JAIPUR Sector-10, Meera Marg, Madhyam Marg, Mansarovar, Jaipur-302020 Ph. 0141-2780436, 2780904 E-mail: <u>stwilfredscollege@gmail.com</u> Website: www.stwilfredscollege.com Where the mind is without fear! Where the head is held high!!



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6	BA PT- III	Positive Psychology	Sensitize	Human Values
	Donon I.		students	
	Paper I:		towards issues	
	Positive	Proven I. Desidies Descholser	regarding	
	Psycholog	Paper I -Positive Psychology	human values	
	У	Section A		
		 Introduction : Definition, Goals and Assumptions of Positive Psychology; Relationship with other Branches of Psychology 		
		 Happiness: Meaning; Hedonic and Eudaemonic Viewpoint; Positive and Negative Affect; Theoretical Viewpoints; Determinants and Sources; Authentic Happiness; Enhancement of Happiness and Wellbeing. 		
		 Positive Cognitive States and Processes: Self-Efficacy, Optimism, Hope, Mindfulness, Flow and Spirituality. 		
		Section B		
		 Virtues and Strengths of Character: Classification and Measures of Human Strengths, Culture of Classification of the Strength Strengths, 		
		Gallup's Clifton Strength Finder, VIA Classification; Identifying Personal Strengths.		
		 Resilience: Meaning and Sources; Developmental and Clinical Perspective; Successful Aging and Growth through Trauma. 		
		 Self-Regulation and Self-Control: Meaning and Theories; Planning for Self- Regulation Success; Self-Regulation Problems – Goal Conflict, Goal Difficulty and Goal Disengagement. 		
		Section C		
		 Mental Health and Well-Being: Subjective Well-Being and Life Satisfaction, Social Well-Being and Psychological Well-Being, Complete State Model. 		
		 Emotional Intelligence: Meaning, Components and Theories; Enhancement of Emotional Intelligence. 		
		9. Pro-Social Behaviord Empathy, Altruism, Gratitude and Forgiveness.		
		Books Recommended:		
		 Snyder, C.R. & Lopez, S.J.(2007). Positive Psychology. New Delhi: Sage. 		
		 Snyder, C.R. & Lopez, J.(2005). Handbook of Positive Psychology. New York: Oxford. 		
		 Baumgardner, S. & Crothers, M. (2019). Positive Psychology . Noida: Pearson Education India. 		
		Paper II - Psychological Testing and Assessment		
		Section-A		
		 Psychological Testing and Assessment-: -Definition, Difference between Testing and Assessment, Tools of Psychological Assessment Interview, Case History Data, behavioral Observation, Computers as tools. 		
		2. Psychological Test: Nature, Functionsand Uses of Psychological Test, Problem of test Dy, Registrar (Academic-I) University of Rajasthan Jajpur Jo		

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da Principal (Dr. FAREEDA HASANI)

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A REAL PROPERTY OF	Comme of	ST. WILFRED'S P.G (Affiliated to the University of R		LLEGE
F S C	BA PT- III Paper I: Society and Culture in India	Capitalizated to the University of Kassis Society and Culture in India Paper-I Max Marks-100 Min Marks-36 Paper-II Max Marks-100 Min Marks-36 Note- Each Paper will contain nine questions having three questions from each Unit. Candidates are required to attempt five questions in all selecting atleast one question from each Unit Ondersteristics of Indian Culture: Purushardha, Vama Vyavastha, Ashram Vyavastha, Samskram, Marriage and Family in India: Continuity and Change. Discore St. Great Tradition and Little Tradition, Universalization and Parochialization, Sasischization and Westernization. Social Stratification: Caste and Class. Daneepts: Great Tradition and Little Tradition, Universalization and Parochialization, Sasischization and Marotites Nature of Indian diversity and problems of National Integration. Duriet B Mark Mar, 1955, Village India: Studies in Little-Community, Chicago University of Chicago Press. Sanda K.L. 1997, Social Stratification in India, New-Delhi, Sage Pablication. Subjer my, Social Stratification in India, Californi, Los Angeles, angun the, 2006, Harefit were as angPheharen, teat desetwere,	Rajasthan) Sensitize students towards issues regarding human values and Gender Sensitization	Human Values and Gender Sensitization

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(Affiliated to the University of Rajasthan)

Peasant Society and Society and UNIT-I Folk Meaning of Rural, Characteristics of Indian rural communities that the characteristics of Peasant and Peasant Society, Characteristics of Foll UITI-II Panchayati Raj: Structure and function of Panchayats, Impact of P Rural India. Change and development in rural society. UNIT-II Panchayati Raj: Structure and function of Panchayats, Impact of P Rural India. Change and development in rural society. UNIT-II Folklore: Definition and function. Classification of Folk literature. Fc Its Social Content Pamily, Women, Caste and Religion. Concept of F List of Books: Beteille Andre, 1974, The Concept of Peasant Society: Six Essays Sociology, Oxford, Oxford University Press. Desai A.R., 1969, Rural Sociology in India, Bombay, Popular P: Limited. Deva Indra, 1989, Folk Culture and Peasant Society in India Publishing Company. Redfield Robert, 1947, Peasant Society and Culture Chicago, Un Press. পীवारस्तव, ए.आर.एन., 1999, भारतीय समाज: समाजशास्त्रीय विपेचन, के.के. प Warrera, ए.आर.एन., 1999, भारतीय समाज: समाजशास्त्रीय विपेचन, के.के. प Dy, Regis	human values ies. Concept and Ik Society. Panchayati Raj on Panchayati Raj on Polk Literature and Elite tradition. s in Comparative Prakashan Private a, jaipur, Rawat <t< th=""><th></th></t<>	



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Gender Equality, Human Values and Professional Ethics, Environment Sustainability in Curricula and teaching learning material of BBA-PT-I/PT-II/PT-III

BBA PT- I

8.	Course code	Course Name	Description	CrosscuttingissuesrelevanttoGenderSensitization/Human&ProfessionalValues/EnvironmentSustainability
3	BBA PT- I Paper III Legal Aspects of Indian Business	Legal Aspects of Indian Business Scheme: Maximum Marks: 100 Bahours duration Minimum Pass Marks: 30 Date: 3 Unit: 0 Bahours duration Law of contract: Nature of contract, Cassifications, Offer and Acceptance, Capacity to contract, Free Consent, Consideration, Legality of object, Agreement dedared void, Performance of Contract, Free Consent, Consideration, Legality of object, Agreement dedared void, Performance of Contract, Oranted, Free Consent, Consideration Legality of contract of sale, Goods and their classification, price conditions Steared Schement of Contract of sale, Schement dedared void, Performance of Contract, Schement dedared void, Performance of Contract of sale, Oppolation of Schement dedared void, Performance of Contract of sale, Unpaid seller, sale by autoin Warranties, Passing of property In goods, Performance of contract of sale, Unpaid seller, sale by autoin. Unit-W Main Companies Act: Meaning & Nature of company, Lifting of Corporate veil: Functions, Dishonours of cheque. Unit-W Multis, Lianitikes and Right of Promoters: Proceedure of Registration: Contents and alteration of Memorandum and Articles of Association, Propectus, Statement in lieu of Propectus. Minimum Sale of Schemet Robot Co. Lucknow! Multis, Mappoinment and Removal of Directors, Appoinment and Role of Contracts. Minimum Sale Jappoinment and Removal of Directors, Appoinment and Role of Memorandum and Articles of Association, Propectus, Statement in lieu of Propectus. Books recommended! Minimum Resolia Liang (RBSA, Jaipur) Minimum Resolia Liang (RBSA, Jaipur)	Enable students to understand Legal Environment regarding Business regulation in India.	Professional Ethics



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BBA PT- III

S. No	Course code BBA PT- III	Course Name Organizational Behavior	Description	Cross cutting issues relevant to Gender Sensitization/ Human & Professional Values / Environment Sustainability Professional
1	BBA PI- III Paper I Organizational Behavior	Functional Benavior Functional Benavior Functional Benavior International Benavior International Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" <td< td=""><td>Enable students to understand the behavioral aspects of human resources in an organization.</td><td>Ethics</td></td<>	Enable students to understand the behavioral aspects of human resources in an organization.	Ethics





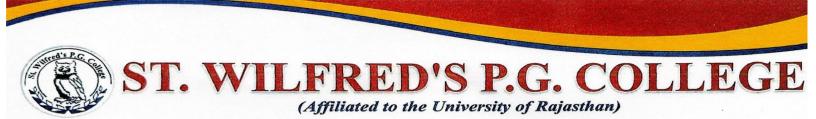
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ST ST	C. WILFRED'S P.G. (Affiliated to the University of Rajas		LEGI
2 BBA PT- III Paper II Indian Management Thought and Business Leaders	Indian Management Thought and Business Leaders <u>Pape-1</u> <u>Indian Management Thought and Business Leaders</u> <u>Unit-1</u> Spirituality and Management- Concept of Spirituality, Indian Ethos and Values, Role of Values in Management, Western Values vis a vis Indian Values, Applications of Yoga in Management. Personality Development, Meditation and Management of stress. <u>Unit-11</u> Indian Epics and Management- Dimensions of Vedic Management, Bhagwad Gita, Ramayan, Kautilaya's Arthshastra. <u>Unit-11</u> Indian Thinkers- Swami Vivekanand, Mahatama Gandhi, S.K. Chakraborty, C.K. Prahlad. <u>Unit-12</u> Indian Business Leaders: JRD Tata, Ram Krishan Bajaj, G D Birla, Dirubahai Ambani. <u>Unit-14</u> Indian Business Leaders: Narayana Murthy, Azim Premji, Lakshnii Mittal, Smit Bharti Mittal. <u>Dots Recommended</u> 1. Chakraborty, S.K. and Bhattachary., Pradip: Human Values, New Age International (P) Limited Publishers. 3. Sancev, Rinku and Khanna, Parul: Ethies and Values in Business Management, Ana Books Pvt. Ltd. 3. Sancev, Rinku and Khanna, Parul: Ethies and Values in Business (Januan S.: Vedic Management, Taxman Publications (P) Ltd. 3. Bharva Gita as Viewed by Swami Viveka, anda: Vedianta Press & Bookshop. 3. Rojopalachari, C.: Ramayan, Bhartiya Vedya Bharvan. (Jita Pranual: Business Legends: Jita Pran	Enable students to Learn business ethics accompanied with Indian ethos required on Global Level.	Professional Ethics & Human Values

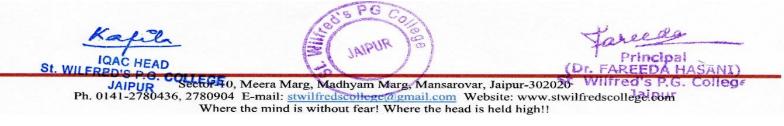
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St. WILERED'S P.G. COLLEG	S. (JAIPON)	(Dr. FAREEDA HASANI)
JAIPIID Sector	40, Meera Marg, Madhyam Marg, Mansarovar, Ja	aipur-302020 Wilfred's P.G. College

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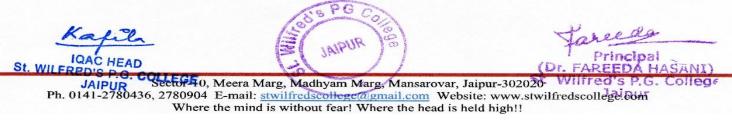


B.Sc. III

S. N o	Course code	Course Name	Description	CrosscuttingissuesrelevanttoGenderSensitization/Human&ProfessionalValues/EnvironmentSustainability
1	B.Sc. III Zoology II Ecology, Environme ntal Biology and Evolution		Help students to learn environmental issues with regard to make a sustainable environment.	Environmental Sustainability



2	B.Sc. III	Ecology & Economic Botany	Help students	Environmenta
	Botany		to learn environmental	Sustainability
	Domon	Deres II	issues with	
	Paper II	Paper-II Ecology & Economic Botany	regard to make	
	Ecology &	(2 hrs /weok)	a sustainable	
	Economic	Unit-1	environment.	
	Botany	Plants and Environment: Atmosphere (four distinct zone viz, stratosphere, troposphere, mesosphere and thermosphere).Adaptation (Morphological, anatomical and physiological responses) of plants to water (Hydrophytes and Xerophytes).		
		Light (global radiation, photosynthetically active radiation. Zonation in water body: littoral, limnetic and profoundal zones; photoperiodism, heliophytes and sciophytes)		
		Temperature (Raunkier's classification of plants: megatherm, mesotherm, microtherm, heikistotherm; themoperiodicity and vernalisation).		
		Soil (soil profile, development-weatheringand maturation). Soil texture, soil types, role of pH, organicmatter, soil water, soil nutrients. Interactions among organisms (neutralism, amensalism, allelopathy), competition, predation, parasitism, protocooperation, mutualism.Environmental protection act.		
		Unit-2		
		Community, Ecosystem and Phytogeography: Community characteristics: stratification, life forms and biological spectrum, frequency density and cover. Ecological succession: types(primary and secondary) mechanism nudation, migration, ecesis, reaction and climax: xerosere, hydrosere,		
		Ecosystems: Structure-abiotic and biotic components, trophic level,food chain, food web, ecological pyramids, energy flow(Box and Pipe model of Odum). Biogeochemical cyclesof carbon, and phosphorus, Vegetation types of Rajasthan,Endangered plants of Rajasthan.		
		Unit-3		
		Basic concept of center of origin of cultivated plants, Food plants-rice, wheat, maize, potato, sugarcane. Vegetables : General account with a note on radish, onion, garlic,cabbage, spinach, cauliflower. cucumber, tomato, lady finger and pea. Fruits: General account with a note on apple,banana, ber, mango, mulberry, jamun, watermelon, muskmelon, guava and orange. Vegetable oil: groundnut, mustard and coconut.		
		Unit-4		
		Spices: General account with an emphasis on those cultivated in Rajasthan The Desistran (a) University of Rajasthan University of Rajasthan University of Rajasthan		
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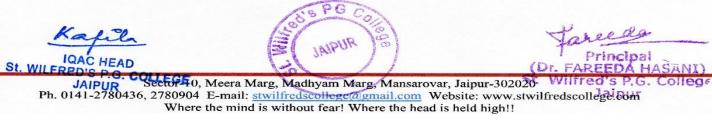


B.Sc. III Geology Paper I	Stratigraphy and Geology of India	Help students to learn environmental issues with	Environment Sustainability
Faper I Stratigraph y and Geology of India	Scheme : Max. Marks : 100 Min. Pass Marks : 36 Marks : 50 Paper-I: Stratigraphy and geology of India : Marks : 50 Paper-II: Economic Geology & Mineral Economics : Marks : 50 Practical Marks : 50 PAPER-I: Stratigraphy and Geology of India Marks : 50 Practical Marks : 50 PAPER-I: Stratigraphy and Geology of India Section-A Stratigraphy and its relation with other branches, aims and principles of stratigraphy, environment of deposition facies, Lithology, Homotaxis and contemporaneity. Stratigraphy, environment of deposition facies, Lithology, Homotaxis and contemporaneity. Stratigraphy of India in Permo-earboniferous period, Physiciagraphic subdivisions of India. Stratigraphy, distribution, lindia and their equivalents. Stratigraphy, distribution, lindogy, structure, correlation, physiciagraphic subdivisions of India. Stratigraphy, distribution, lindogy, structure, correlation, faciagi, content and mineral resources of the Condwana Supergroup. Stratigraphy, distribution, lindogy, succession and fossil, content. Section-C Turassic Period : Triassic of Skatchin, Western Rajasthan-Bagh Beds and Lameta Ghat Series-lithology, succession, and fossil, content, and distribution. Intertrappean beds-succession, lithology, distribution, succession, and fossil, content, and distribution. Turassic Period : Subdivisions, lithology, depositional environme	regard to make a sustainable environment.	

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JAIPUR Sector 40, Meera Marg, Madhyam Marg, Mansarovar, Jaipur-302020 Willied S P.G. Co Ph. 0141-2780436, 2780904 E-mail: <u>stwilfredscollege@gmail.com</u> Website: www.stwilfredscollege.com Where the mind is without fear! Where the head is held high!!

4	B.Sc. III Geology Paper II	Economic Geology and Mineral Economics	Help students to learn environmental issues with	Environmenta Sustainability
	Paper II Economic Geology and Mineral Economics	 Nummultite cuarts Nummultite cuarts Nummultite cuarts Note: The paper will contain nine questions having three questions in each section. Candidates are required to attempt five questions in all, selecting at least one question from each section. Section-A Conomic Geology and its relationship with various branches of Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with mineral deposits; Ore and Geology, Magma and its relationship with and supergence enrichment, metasimothism. 	regard to make a sustainable environment.	
		properties, chemical composition and distribution in more investments, and tory, Abrasives, Ceramics, Coment, Gemstones, Glass, Paint, and Fertilizers. Coal, petroleum and radioactive minerals : their occurrences, distribution and origin-oil traps. Building stones : characters, distribution and mode of occur- rence. Dy. Registrar (Academic) University of Rejast'		



5	B.Sc. III	Environmental Economics	Help students to learn	Environmenta Sustainability
	Economics Paper II Environme ntal Economics	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	to learn environmental issues with regard to make a sustainable environment.	Sustainaoiiity
		Dy. Registrar (Academic-I) University of Rajasthan Jaipur		

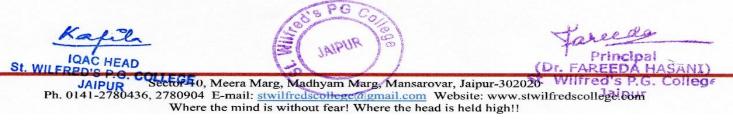


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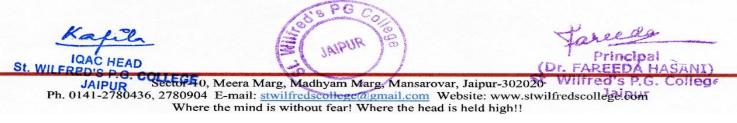
6	B.Sc. III	(Affiliated to the University of Ray World Regional Geography	Help students	Environment
			to learn	Sustainability
	Geography		environmental	
	Paper I	Paper 1: World Regional Geography	issues with regard to make	
	World		a sustainable	
	Regional	Section A	environment.	
	Geography	Asia: Terrain Pattern, Drainage, Climate, Natural Vegetation, Soils, Population and Economic Base of the Continent In General, Regional Study of South-East and South-West Asia. Europe: Terrain Pattern, Drainage, Climate, Natural Vegetation, Soils, Population Europe: Terrain Pattern, Orainage, Climate, Natural Vegetation, Soils, Population		
		Europe: Terrain Pattern, Drainage, Climate, Natural Vegetation, Sond Fritish Isles. and Economic Base of the Continent In General ; Regional Study of British Isles. France and Germany. Section B		
		North and South America: Terrain Pattern. Drainage. Climate, Natural Vegetation, Soils, Population and Economic Base of the Continent In General; Regional Study of New England and Brazil.		
		Section C		
		Australia and New Zealand: Terrain Pattern, Drainage, Climate, Natural Vegetation, Soils, Population and Economic Base of Australia and New Zealand In General.		
		Recommended Readings: Cole, J., 1996. A Geography of the World's Major Regions, Routledge, London. Deblij H.J., 1994, Geography : Regions and Concepts, John Wiley, New York. Dickens in J.P. et al. 1996. The Geography of the Third World, Routledge, London & J. Gourou, P., 1980. The Tropical World, Longman, London. Jackson, R.H. and Hudman, L.E., 1991. World Regional Geography : Issues for Today, John Wiley, New York. Kolb, A., 1977. East Asia - Geography of a Cultural Region, Mathuen, London. Minshull, G.N., 1984. Western Europe, Hoddard & Stoughton, New York. Patterson. J.H., 1985. Geography of Canada and the United States. Oxford University Press.		
		Songquiao. Z., 1994. Geography of China, John Wiley, New York. Ward, P.W. and Miller, A. 1989. World Reginal Geography : A Question of Place. John Wiley, New York.		
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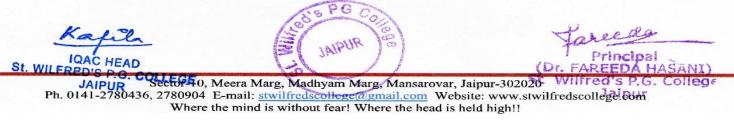
/	B.Sc. III	Geography of India	Help students	Environmenta
Geograph	Geography		to learn environmental	Sustainability
	Paper II		issues with	
	Geography of India	Paper II: Geography of India	regard to make a sustainable environment.	
		Section A		
		India in the context of South and Scalpenst Asia, geological structure, physiographic divisions, climate seasons, mechanism of Indian monsport, major climate regions,		
		vel Mation, major soils and regions, drainage system, water resources and irrigation projects: forests, mineral and power resources: their utilization policy and conservation strategies.		
		Section B		
		Agriculture-typology, major crops, changing pattern of crops, agricultural growth during pair pretoct and green revolution, livenock resources and their development, industrial groups and the statistical localization with reference to iron and steel, conton textile, contain and chemical industries, industrial regions; population growth, distribution. problems, policy implication, trends of urbanization and human resource development.		
		Section C		
		Regional disparities in economic development, planning and economic regions of India, multilevel planning, problems and prospects of linking of rivers, environmental issues in India, transport development: mil, road, air and waterways, foreign trade: challenges and prospects.		
		Recommended Readings:		
		Gautam, Alka, 2010: Geography of India. Rastogi Publications, Meerut. Gopal Krishnan, R. 2001 Geography of India, Jawahar Publishers & Distributions, New Dathi, 2 nd Edition Khullar, D.R. 2006. India a comprehensive Geography: Kalyani Publishers, New Delhi मामोरिया, सी. 1999: आमुनियः भारत का बुहत भूतोल। साहित्य भवन परितकेशन्स, आगरा। Sdazyuk, G. und Sengupta, 1968: Economic Regioundisation of India, Census of India		
		Publication, New Delhi. Singh, G. 1998: A Geography of India, Atma Ram & Sons, Delhi, Sixth Edition. Singh, R. J. (ed.) 1971: India: A Regional Geography, NGSI, Varanasi. Singh, R. J. (ed.) 1971: India: A Regional Geography, NGSI, Varanasi.		
		Tirthe, K 2000; Geography of India, Rawat Publications, Jaipur 2 nd Edition (India)		

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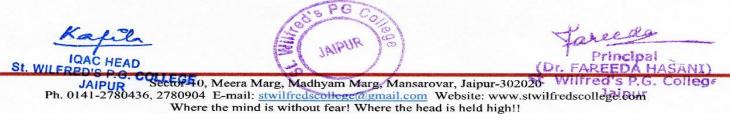
8	B.Sc. III	Positive Psychology	Help students to learn	Environmenta Sustainability
	Psychology		environmental	Sustainaointy
	Paper I	Paper I -Positive Psychology	issues with regard to make	
	Positive Psychology	Section A 1. Introduction : Definition, Goals and Assumptions of Positive Psychology; Relationship with other Branches of Psychology	a sustainable environment.	
		 Happiness: Meaning; Hedonic and Eudaemonic Viewpoint; Positive and Negative Affect; Theoretical Viewpoints; Determinants and Sources; Authentic Happiness; Enhancement of Happiness and Wellbeing. 		
		 Positive Cognitive States and Processes: Self-Efficacy, Optimism, Hope, Mindfulness, Flow and Spirituality. 		
		Section B 4. Virtues and Strengths of Character: Classification and Measures of Human Strengths		
		 Gallup's Clifton Strength Finder; VIA Classification; Identifying Personal Strengths. 5. Resilience: Meaning and Sources; Developmental and Clinical Perspective; Successful Aging and Growth through Trauma. 		
		 Self-Regulation and Self-Control: Meaning and Theories; Planning for Self- Regulation Success; Self-Regulation Problems – Goal Conflict, Goal Difficulty and Goal Disengagement. 		
		Section C		
		 Mental Health and Well-Being: Subjective Well-Being and Life Satisfaction, Social Well-Being and Psychological Well-Being, Complete State Model. 		
		 Emotional Intelligence: Meaning, Components and Theories; Enhancement of Emotional Intelligence. 		
		9. Pro-Social Behavior: Empathy, Altruism, Gratitude and Forgiveness.		
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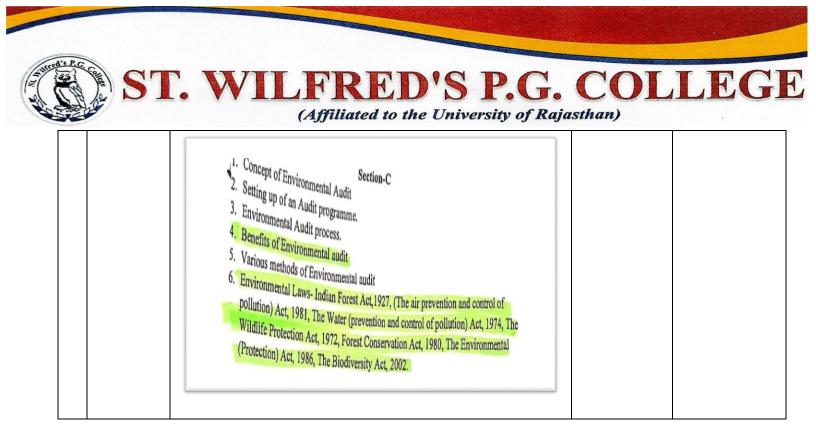


)	B.Sc. III	Environmental Management and Planning	Help students	Environmenta
	EVC		to learn	Sustainability
	EVS		environmental	
	Paper I	Paner I Environmente	issues with	
	ruperr	Paper – I Environmental Management and Planning	regard to make	
	Environme	Section -A Air Pollution Abatement; Study of metrological parameters.	a sustainable	
	ntal	2. Vertical motion of air, and atmospheric stability;	environment.	
	Manageme	Wind direction, frequency, and lapse rates.		
	nt and	4. Temperature inversion		
	Planning	 Dispersal of pollutants in the air Air pollution with respect to distance from source of emissions of pollutants 		
	8	Section-B		
		1. Types of pollutant sampling and measurement.		
		 Ambient air sampling Collection of Gaseous air pollutants 		
		4. Collection of particulate pollutants		
		5 Stack sampling		
		 Analysis of air pollutants, SOx, NOx, CO₂, CO and SPM. 		
		Section-C		
		 Control methods; source correction method Cleaning of Gascous effluents 		
		A ir pollution control equipments, Gravitational setting channels, cyclone separate		
		Fabric filters, Electrostatic precipitators, wet samplers.		
		4 Control of gaseous air pollutants; SOx		
		5. Control of gaseous air pollutants; NOx and CO		
		Suggested Readings:		
		 Baldwin, J.H. 1985. Environmetnal Planning and Management. International Book 		
		Distilution Debradun		
		 Bandhu, D. and Ramnath, N.L. 1982. Education for Environmental Planning and Bandhu, D. and Ramnath, N.L. 1982. Education for Environmental Planning and 		
		 observation. Natraj publishers, Dehradun. Cornwell, D.A and Davis, M.L.2000.Introduction to Environmental Engineering. 		
		Lt. Commutility International Edition		
		 De Nevers, N.L.2000.Pollution Control Engineering. McGraw Hill. International 		
		Edition.Mexio.		
		 Environmental Management and Planning Liu, D.H.F. and Liptak, B.G.2000.Air Pollution. Lewis Publishers. Washington, D.C. 		
		 Liu, D.H.F. and Liptak, B.G.2000 An Foldation Portuging Portuging Portuging House, Mohan, I, 1989.Environmental pollution and Management, Ashish Publishing House, 		
		New Delhi.		
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		70 University of Rajasthan		



B.Sc. III	Environmental Impact Assessment and Sustainable Development	Help students	Environmen
EVS		to learn environmental	Sustainabili
Paper II	Paper-II Environmental Impact Assessment and Sustainable Development	issues with regard to make	
Environme		a sustainable	
ntal Impact	Section-A	environment.	
Assessmen	1. Basic Concepts of Sustainable Development 2. Sustainable Industrialization.		
t and	3. Sustainable Agriculture		
Sustainable	4. Sustainable Tourism		
	5. Sustainable Mining		
Developme	6. Sustainable Transportation and Sustainable housing		
nt	 Environmental awareness Programs Role of National and International Organizations in Conservation of Environment 		
	 Role of Media in Environmental Conservation 		
	 Significance of International Conference on Human Environment, Stockholm, 1972; 		
	Earth Summit, Rio de Janerio, 1992; EarthSummit – II, Johannesburg, 2002; Earth		
	Summit-III-2012.		
	Section-B		
	I. Environmental Impact Assessment, Processes in different developing and Developed		
	Countries.		
	2. Environmental Impact Assessment: Methods; 'Adhoc, Simple Checklists, Overlays,		
	Matrices, Networks.		
	3. Environmental Economics		
	4. Environmental Management Systems (EMS)		
	5. Environmental Policy of India		
	6. Environmental policy of Rajasthan.		
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	Dy. Registrar (Academic-I) 71 University of Rajasthan		





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eeda Principal (Dr. FAREEDA HASANI)

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M.Sc. (P)

S. No	Course code	Course Name	Description	Cross cutting issues relevant to Gender Sensitization/ Human & Professional Values / Environment Sustainability
1	M.Sc.(P) EVS Paper - I Fundamentals of ecology and environmental science	 Fundamentals of ecology and environmental science Paper I: Fundamentals of Ecology and Environmental Science Duration 3 hrs. Max. Marks:100 Min. Pass Marks:36 Unit-1: History and scope of ecology and environmental science, Human ecology and human settlements, evolution, origin of life and specification, population ecology, interactions and ecological model, definition and components of environment, conceptual development of ecology with other branches of science, interrelatedness, importance of environmental science for human beings. Unit -2: Ecosystem concept: Biotic and abiotic components of ecosystem, ecotones and biomes, ecological pyramids of number, biomass and energy. Food Chain, food web and trophic levels, ecological amplitude and ecological inches. Unit -3: Ecological energetic: first and second laws of thermodynamics and flow of energy in ecosystem. Biogeochemical cycling: Carbon, Nitrogen, Phosphorus and Sulphur and hydrological cycles and microbial ecology. Unit -4: Primary and secondary productivity of different ecosystems in the world, methods of measurements of productivity and the factors affecting productivity, Ecosystem services. 	Help students to learn environmental issues with regard to make a sustainable environment.	Environmental Sustainability



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M.Sc. (P) EVS	Ecosystem-Structure, Functions and diversity	Help students to learn	Environme Sustainabil
Paper - II		environmental	Sustamaon
Ecosystem- Structure,	Paper II: Ecosystem- Structure, Functions and Diversity	issues with regard to	
Functions and diversity		make a sustainable	
diversity		environment.	
	Unit-1: The ecological principles and factors determining survival of life on earth, The global ecosystem and the place of man in it; human food chain and the energy		
	requirements for the maintenance of human ecosystems on earth. The concept of global "ecological balance" and the threats of its imbalances due to rising human		
	population, mathematical modeling of ecosystem.		
	Unit -2 : Forest ecosystem- Forest as an ecosystem, distribution of forests, types of forests, economics and ecology of forest, role of forests in protection of species		
	regulation of climate and production of various produce. Depletion of biodiversity		
	from forest and the world forest conservation policies. Unit-3: Grassland ecosystem - Distribution and types of grasslands, rangelands and		
	biodiversity in grassland, and productivity in grasslands. Wetland Ecosystem-		
	Distribution, energetic and productivity in wetlands, biodiversity and economic importance of wetlands.		
	Unit-4: Desert Ecosystem and Wastelands-Desert as ecosystems, hot and cold deserts,		
	productivity, characteristics and global distribution of deserts. Desertification process, ecological, geological, geographical and geomorphological aspects of		
	Thar desert, adaption in desert, fauna and flora, Vegetation types of Thar Desert, change in land use pattern due to introduction of canals and environmental		
	consequences. Types and distribution of wastelands in India. Aquatic Ecosystem:		
	Lentic and lotic ecosystem, structure, energy flow and productivity in estuaries, marine ecosystem, structure biodiversity and productivity in marine ecosystem.		
	D'It.		
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M.Sc. (P) EVS	Environmental pollution and health	Help students	Environm
Environmental		to learn environmental	Sustainal
pollution and		issues with	1
health		regard to	I
	Paper III: Environmental Pollution and Health	make a	l .
	Duration 3 hrs. Max. Marks:100 Min. Pass Mark	s:36 sustainable environment.	l .
	 Unit -1 : Air Pollution Air pollution and Human Health, Atmospheric composis stratification. Types of air pollutants, sources of emissions of air polatnospheric physics and chemistry of air pollution, methods of detect measurement of air pollution. Effect of air pollution on vegetation, man, materials and environment; Global warming, levels of emissions of gree gases, greenhouse effect, climate change, sea level rise, implication o warming on mainland (agriculture, residential places and diseases). depletion, chemistry of depletion, chemicals affecting stratospheric ozon consequences of ozone depletion, acid rain: chemistry, causes and effects rain. Unit-2: Water Pollution: Potable-water standards, types of water pollutants ar sources, impacts of water pollution on human, plants and animals. Wat diseases:diarrhea, dysentery, typhoid, viral hepatitis and their control. pollution causes, impacts and consequences of noise pollution. Sources and causes of noise pollution, physio-chemical and bacteriological sampling as analysis of soil soil pollution, control, Interaction of industrial waste with soil components. Unit-4: Radiation pollution and thermal pollution: Radiation characteristics, rapollution, causes and impacts of radiation pollution in India. 	illutants, ion and animals, enhouse f global Ozone e layer, of acid ad their erborne Marine mics of illution, illution, illution, of land quality, idiation ses and	

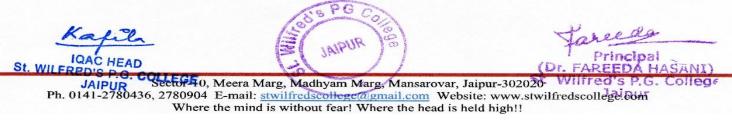
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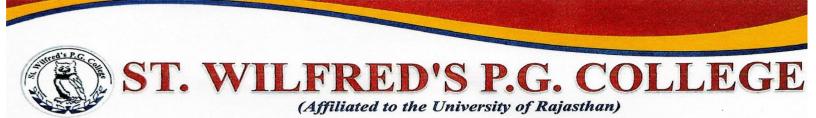


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M.Sc. (P) EVS Paper - IV Environmental	Environmental education and policy	Help students to learn environmental issues with	Environmo Sustainabi
education and policy	<section-header> Duration 3 has Max Marks 200 Pint of 14 has Max Marks 200 Pint 14 has the opolitiks and Environmental activism, the birth of Eco politiks and environmental activism and environmental for any expected activity and the Rio Earth Summit of 1992. Pint 41 field birth activity and the Eco politiks for effortestation of Nature and thermational Organizations in Environmental conservation of Nature and thermational politiks for affortestation, advature (WEPK) UNEP, UNEP,</section-header>	regard to make a sustainable environment.	





M.Sc. (**F**)

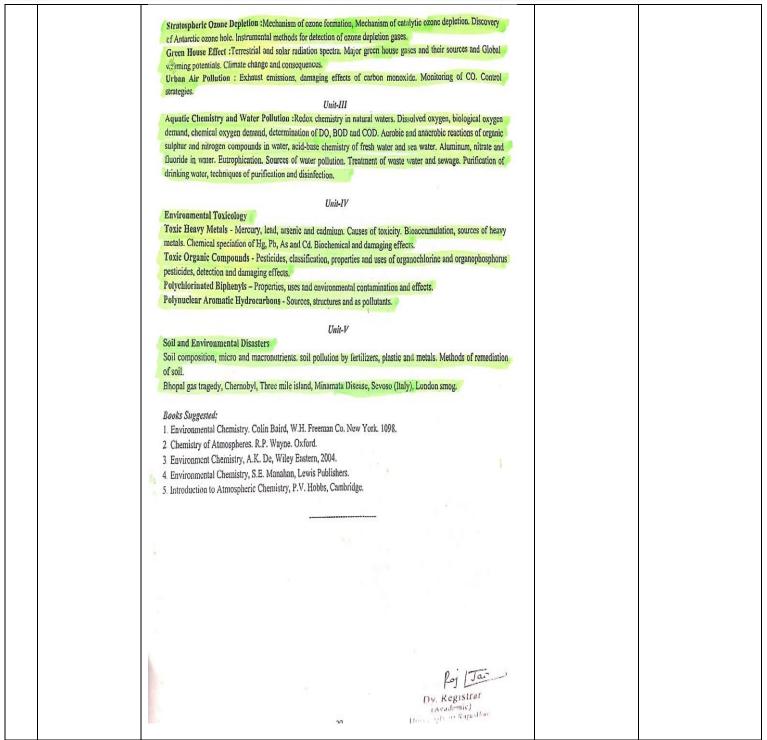
S. No	Course code	Course Name	Description	Crosscuttingissues relevant toGenderSensitization/Human&ProfessionalValues/EnvironmentSustainability
1	M.Sc. (F) Chemistry Paper - III Environmental Chemistry	<text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>	Help students to learn environmental issues with regard to make a sustainable environment.	Environmental Sustainability



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F. WILFRED'S P.G. COLLEGE (Affiliated to the University of Rajasthan) M.Sc. (F) EVS Waste treatment and management Help students Environmental to learn Sustainability Paper - I environmental issues with Waste regard to make treatment and sustainable а management M.Sc. FINAL environment. Note: Each paper will have 9 questions out of which a student has to attempt 5 questions including the question no. 1, which will be compulsory, and one question selecting from each unit. The question no. 1 will carry 20 marks and will be of short objective type of questions, such as multiples choice types questions (10 questions of 1/2 marks each), one line answer type (5 questions of 1 mark each)fill in the blanks type(five question of 1 mark each), one word type (5 questions of 1 mark each). Paper I: Waste Treatment and Management Duration:3 hrs. Max. Marks:100 Min. pass. Marks:36 Unit-1: Urban waste management, characteristics and nature of solid waste; generation. transportation, disposal and treatment of solid waste. Recovery, recycling and reuse of waste. Unit-2:Industrial waste management-generation of industrial waste, minimization o waste generation, recycling and recovery of materials, industrial waste treatment (Chemical) waste management, classification of toxic waste, treatment of toxic waste and safe disposal. Unit-3: Nuclear waste treatment -Reprocessing of nuclear waste, recovery of nuclea filling material for reuse, treatment and safe disposal of nuclear waste. Unit-4:Hazardous waste management -Classification,nature and characteristics o hazardous waste, Techniques of hazardous waste treatment, Disposal of hazardou waste. Dy. Registrar (Academic-I) University of Rajasthan Jaipur

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Paper - II	Natural resources and biodiversity conservation	Help students to learn environmental issues with	Environmenta Sustainability
Natural resources and biodiversity conservation	Paper II:Natural Resources and Biodiversity Conservation ration:3 hrs. Max. Marks:100 Min. pass. Marks:36 it-1: Classification of resources: Renewable resources, Nonrenewable resources	regard to make a sustainable environment.	
	 Classes of earth resources, resource regions: Definition and criteria, resource conservation. it-2;Natural resources-non mineral resources, Land, Soil, Water, Inland Water, plants animals, microorganisms, the forest produce and the marine resources Agricultural resources, Natural resources-mineral resources and fuel resources Minerals and metals, fossil fuel, coal, petroleum, natural gas. it-3:Alternatives of resources and non-conventional energy sources, solar, wind hydel, tidal and geothermal energy resources, the nuclear fuels, biomass energy hydrogen as fuel etc. it-4:In-situ biodiversity and conservation, conservation of biodiversity in Biosphere Reserves, Reserve Forests, National Parks, Tiger Projects, Sanctuaries, place around shrines, sacred grooves etc. Biotechnology and its application in biodiversity conservation, Ex-situ conservation of biodiversity, gene bank, germ 		
	plasm storage, live museum etc. Hg //ta.) Dy. Registrar (Academic-1) University of Rajasthan Dy Taipur		

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4	M.Sc. (F) EVS Paper – III A Environmental impact assessment, (EIA) and sustainable development	Environmental impact assessment, (EIA) and sustainable development Special Paper: A-Environmental management and Planning Note: Each paper will have 9 questions out of which a student has to attempt 5 questions including the question no. 1, which will be compulsory, and one question selecting from each unit. The question no. 1, which will be compulsory, and one question selecting from each unit. The question no. 1, which will be compulsory, and one question selecting from each unit. The question no. 1 will carry 20 marks and will be of short objective type of questions, such as multiples choice types questions (10 questions of 12 marks each), one line answer type (5 questions of 1 mark each)fill in the blanks type(five question of 1 mark each), one word type (5 questions of 1 mark each). Paper IIIA: Environmental Impact Assessment, (EIA)and Sustainable Development Duration: 3 hrs. Max. Marks:100 Min. pass. Marks:36 Unit-1: Procedures and methodologies of EIA, cost-benefit analysis and auditing, origin of the concept of Environmental Impact Statement; preparation, procedure of EIA in different countries and methodologies of preparation of EIA Environmental Auditing (EA) and its applications.	Help students to learn environmental issues with regard to make a sustainable environment.	Environmental Sustainability
		 methodologies of thermal power projects, mitigation of impacts and economically sound and ecologically sustainable development. Unit-3: [EIA and EA of nuclear power projects, EIA and EA methodologies of nuclear power project, siting , mitigation of adverse impacts.EIA and EA of other developmental projects, EIA and EA of tourism, transportation, irrigation, dams, agriculture and industries. Unit-4: EIA and EA of mining projects, river projects, procedures and methodologies of EIA and EA of mining and river valley project. Dy. Registrar (Academic-I) University of Rajasthan Jaipur 		



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M.Sc. (F) EVS Environmental pollutions	Environmental pollutions management and control technology	Help students to learn environmental issues with	Environmenta Sustainability
management and control technology	raper iv A: Environmental Pollutions Management and control Technology	regard to make a sustainable environment.	
	Duration:3 hrs. Max. Marks:100 Min. pass. Marks:36		
	Unit-1: Air Pollution management and control technology-air pollution sampling an measurement, air pollution control methods and equipments, control of specific gaseous pollutants.		
	Unit-2:Water pollution management and control technology waste water sampling an analysis, waste water treatment, primary waste water treatment, secondary was water treatment and advanced waste water treatment. Marine pollution management and control technology, sampling and measurement of marin pollution, control of marine pollution.		
	Unit-3:Land pollution management-methods of collection, sampling, disposal, reuse an recovery of materials.		
	Unit-4:Energy:Impacts of production and use of energy and impact reduction technologies, Energy production by thermal power, nuclear power and their impacts. Technology for reduction of environment impact of power generation.		
	Dy. Registrar (Academic-I) University of Rajasthan Vajpur		

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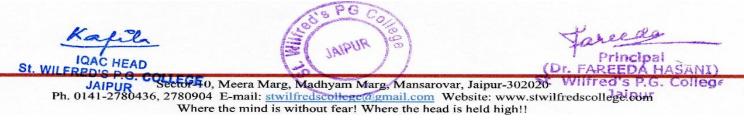
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Principal (Dr. FAREEDA HAŠANI) JAIPUR Ph. 0141-2780436, 2780904 E-mail: stwilfredscollege@gmail.com Where the mind is without fear! Where the head is held high!!

M.Sc. (F) EVS Paper - IIIB The human		vironmen stainabilit
population culture and environments	<section-header><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></section-header>	



Paper - IVB	to learn	Environmental Sustainability human values	
Social impact assessment and sustainable development	 Paper IVB: Social Impact Assessment and Sustainable Developmen Duradon 3 hrs. Max. Marks:100 Min. pass. Marks:36 Unit-1: Technological Revolution: Industrialization, Farmization, and Urbanization Ecological-Economics: The dilemma of human development. Economy V Ecology, economic development visa-avis ecological destruction. Need for system of environmental "auditing and accounting "in all developmental projects. Unit-2: Sustainable Development: The Brundtland Commission Report (1987) abox sustainable development; the strategies for sustainable transport system need for change in development aphilosophy based on human needs and nc greed, equity in resource distribution and consumption; revival of fractiona system of development and its relevancy to the modern human society. Unit-3-Eco politics and Development and its relevancy to the modern human society. Unit-4: Developmental Priorities and Problems and Mankind: 'Agriculture, Industries, Tourism, Power generation, New Technologies, Energy intensities technology. Min 4: Developmental Priorities and Problems and Mankind: 'Agriculture, Industries, Tourism, Power generation, New Technologies, Energy intensities technology. 		





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M.Sc. (F) Botany	Plant Ecology	Help students to learn environmental	Environmenta Sustainability
Paper - VIII Plant Ecology	<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	environmental issues with regard to make a sustainable environment	

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M.Sc. (F) Botany Paper - IX Plant resource utilization and	Plant resource utilization and conservation raper -IX : Plant Resource Utilization and Conservation Scheme of Examination Each proper will here 0 accertains out of which what Narks 100	Help students to learn environmental issues with regard to make a sustainable	Environmenta Sustainability
conservation	 Each paper will have 9 questions, out of which a student has to attempt 5 questions including the question No.1 which will be compulsory. The question No.1 will carry 20 marks and will be of short answer type questions with a limit of 20 words. Unit-I Plant Biodiversity : Concept, status in India, utilization and concerns. Sustainable development : Basic Concepts. Origins of agriculture. World centres of primary diversity of domesticated plants : The Indo-Burmese centre, plant introductions and secondary centres Unit-II Origin, evolution, botany cultivation and uses of : (i) Food, forage and fodder crops, (ii) fibre crops, (iii) medicinal and aromatic plants, and (iv) vegetable oil-yielding crops. Unit-III Important fire-wood and timber-yielding plants and non wood forest products (NWFPs) : such as bamboos, rattans, raw materials for paper making, gums, tannins, dyes, resins and fruits. Green revolution : Benefits and adverse consequences. Innovations for meeting world food demands. 	environment	
	Plants used as avenue trees for shade, pollution control and aesthetics. Principals of conservations, extinctions, environmental status of plants based on International Union for Conservation of Nature. Unit-IV Strategies for conservation-in situ conservation : International efforts and Indian initiatives, protected areas in India- sanctuaries, national parks: biosphere reserves, wetlands, mangroves and coral reefs, conservation of Wild biodiversity. Strategies for conservation-ex situ conservation: Principles and practices, botanical gardens, field gene banks, Seed banks, in vitro repositories, cryobanks, general account of the activities of Botanical Survey of India (BSI), National Bureau of Plant Genetic Resources (NBPGR), Indian Council of Agricultural Research (ICAR), Council of Scientific and Industrial Research (ICAR), and the Department of Biotechnology (DBT) for conservation, non-formal conservation efforts. My Registrar		

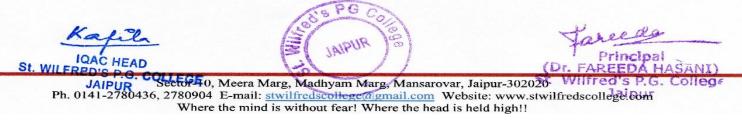




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M.Sc. (F) A Botany Paper – IX A	Advanced Plant Pathology	Help students to learn environmental issues with	Environmenta Sustainability
Advanced Plant Pathology	<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	issues with regard to make a sustainable environment	



M.Sc. (F) E	cosystem Ecology	Help students	Environmenta
Botany		to learn	Sustainability
Paper – IX C Ecosystem Ecology	<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	environmental issues with regard to make a sustainable environment	

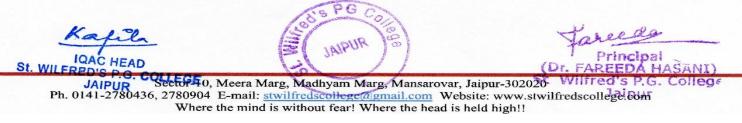
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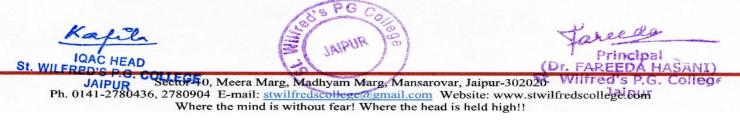
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2 M.Sc. (F) Botany	Environmental Biology	Help students to learn	Environmental Sustainability
Paper – XII C Environmental		environmental issues with regard to make	
Biology	<text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text>	a sustainable environment.	



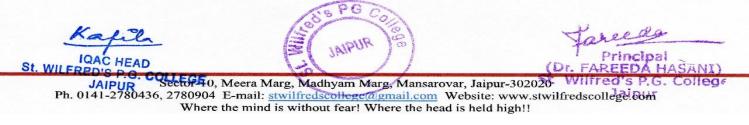
M.Sc. Zoology Paper - II	(F) Envir	onmental Biology and Ethology		Help students to learn environmental issues with	Environmental Sustainability a Human Value
Environme Biology Ethology	ental and	M.Sc. FINAL (ZOOLO PAPER II : ENVIRONMENTAL BIOLO	regard to make a sustainable environment.		
		Duration : 3 Hours Max. Marks – 100	Periods : 70		
		Unit I - Environmental Biology			
		1. Interactions between environment and biota	5		
		1.1 Concept of habitat and ecological niches			
		1.2 Limiting factors.			
		1.3 Energy flow, food chain, food web and trophi	c levels, eco logical pyramids.		
		1.4 Biotic community: Concept, structure, domina	ate, fluctuation and succession.		
		1.5 Various nutrient cycles in nature.	Dy. Registrar (Academic-1) University of Rajasthan W Jaipur		





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 Ecosystem dynamics and management Complexity, stability and homeostasis of ecosystems. Functional aspects and productivity concept. Niche, ecotone and overlapping of niches. Character displacement, speciation and extinction. Environmental impact assessment Principles of conservation: Conservations strategies Various natural resources. Present status and future needs. Management. Biodiversity of India and Rajasthan and their munagement. Prospects and strategies for sustainable communities Organisation and dynamics of ecological communities A detailed knowledge of communities of fresh water, marine, terrestrial ar esturine areas with respect to Extent Extent Extent Extent 	
 2.2 Functional aspects and productivity concept. 2.3 Niche, ecotone and overlapping of niches. 2.4 Character displacement, speciation and extinction. 3. Environmental impact assessment 3.1 Environmental pollution. 3.2 Population and impact of urbanization. 4. Principles of conservation: Conservations strategies 4.1 Various natural resources. 4.2 Present status and future needs. 4.3 Management. 4.4 Biodiversity of India and Rajasthan and their munagement. 5. Prospects and strategies for sustainable communities 7 6.1 The habitat approach. 6.2 A detailed knowledge of communities of fresh water, marine, terrestrial are esturine areas with respect to 6.2.1 Extent 6.2.2 Zonation 	
 2.3 Niche, ecotone and overlapping of niches. 2.4 Character displacement, speciation and extinction. 3. Environmental impact assessment 3.1 Environmental pollution. 3.2 Population and impact of urbanization. 4. Principles of conservation: Conservations strategies 4.1 Various natural resources. 4.2 Present status and future needs. 4.3 Management. 4.4 Biodiversity of India and Rajasthan and their munagement. 5. Prospects and strategies for sustainable communities. 2 6. Organisation and dynamics of ecological communities. 7 6.1 The habitat approach. 6.2 A detailed knowledge of communities of fresh water, marine, terrestrial aresturine areas with respect to 6.2.1 Extent 6.2.2 Zonation 	
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6.2.2 Zonation	
0.2.5 Environment	
6.2.4 Biota	
6.2.5 Adaptations	
7. The ecological outlook 5	
7.1 Applied human ecology	
7.2 Radiation (electromagnetic and ionizing) and environment	
7.3 Climatic changes (El Nino and La Nina)	
7.4 Space ecology	
7.5 Human future	





Uni 1.	it II: Ethology Introduction to Ethology	
	 Branches and significance of Ethology: Ethophysiology, Ethoendocrinology, Neuroethology, Human ethology, Behavioural genetics, sociobiology. 	
	 Milestones of Ethology : Konrad Lorenz, Niko Tinbergen, Karl Von Frisch, BF Skinner, HF Harlow. 	
	1.3 Proximate and ultimate mechanisms of ethology.	
2.	Concepts of Ethology :	
	2.1 Motivation and Innate behaviour (Fixed action pattern).	
	2.2 Sign stimulus, super normal stimulus.	
	2.3 Action specific energy and Innate releasing mechanism.	
	2.4 Difference between learned and Innate behaviours.	
3.	Nervous system and Behaviour	
	3.1 Mammalian brain structure and behaviour.	
	3.2 Hypothalamus and Innate behaviour.	
	3.3 Behavioural endocrinology including effect of drugs.	
	3.4 Orientation - taxis and kinesis, bird migration and navigation	
	3.5 Biological clocks, Chronobiology.	
	Learning and Imprinting	

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KJ Dy. Registrar (Academic-I) University of Rajasthan Jaipur

- 4.2 Habituation; Conditioning.
- 4.3 Trial and error; Imprinting.
- 4.4 Neural mechanism of learning .
- 4.5 Birds song learning behavior in the context of 'l'inbergen's 4 aims.

5. Sociobiology

- 5.1 Introduction- definition, WO Wilson, Richard Dawkins, WD Hamilton.
- 5.2 Units of sociobiology,

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IQAC HEAD	JAIPUR S	(Dr. FAREEDA HAŠANI)

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Syllabus M.Sc. Zoology 27 5.3 Hamilton's theory and Altruism, cooperation, reciprocation and Eusociality, 5.4 Properties, advantages of a social group, Social organisation in primates. 6. Social Behaviour 6.1 Parental care- Types , Parent offspring conflict. 6.2 Courtship and mating. 6.3 Aggression and territory 6.4 Evolution of social systems. 7. Communication in animals 7.1 Auditory, Echolocation, Infra- and ultra- sounds. 7.2 Tactile, Visual. 7.3 Pheromones- vertebrates and invertebrates 7.4 Language of honcy becs-circle and waggle dance. 8. Human Behaviour-8.1 Desmond Morris, Sarah Hrdy. 8.2 Sign stimulus, Imprinting. 8.3 Kinship, Aggression. 8.4 Pheromones. Recommended Books (Environmental Biology) 1. Begon, M. Harper, J.I. and Townsend, C.R.: Ecology, Individuals, Populations and Communities. Blackwell Science, Oxford University Press, Oxford. 2. Cherrett, J.M.: Ecological Concepts, Blackwell Scientific Publication, Oxford, U.K. 3. Elseth, B.D. and Baumgartner, K.M.: Population Biology, Van Nostrand Col, New York. 4. Iorgension, S.E.: Fundamentals of Ecological Modeling, Elsevies. 5. Krebs, C.J.: Ecological Methodology, Harper and Row, New York. 6. Krebs, C.J.: Ecology, Harper and Row, New York. Dy. Registrar (Academic-I University of Rajasthan

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