

**DEPARTMENT
OF
FAMILY AND COMMUNITY RESOURCE
MANAGEMENT**

Ph.D. PROGRAMME

Proposed Course Outlines

As per NEP 2020 Framework

Ph.D. PROGRAMME

NEP STRUCTURE FOR FCRM PH.D. PROGRAMME – DEPARTMENT LEVEL

YEAR	COURSE NAME	CREDIT
I	Environmental Development and Sustainability	3(3+0)
	Research proposal	3(0+3)
	TOTAL	06


Bloom's Taxonomy Levels: 1.Remember 2.Understand 3.Application 4.Analysis 5.Evaluation 6. Creation Programme

Name: Ph.D. - Family and Community Resource Management

Program Specific Outcome (PSO)

At the end of the completion of the course of the Ph.D. programme the following are the program outcomes:

1. The students would be able to understand the need and significance of environment education
2. The students would be able to understand the significance of environmental issues and concerns
3. The students would be able to understand Waste Management techniques for Sustainable Development
4. The students would be able to apply the knowledge and skills for active participation in the resolution of environmental challenges reflective solutions

		NAAC Accredited “A+”Grade Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda					Academic Year		2023-24		
Ph.D. (F.C.Sc) FCRM- Programme											
Year	I	Environmental Development and Sustainability			Credits / Hours per week				03(3+0)		
Semester	Year of Introduction:2023-24 Year of Syllabus Revision:2023-24			Maximum Marks / Grade				O			
Mode of Transaction	Lectures and Tutorials										
Course Outcome (CO) CO1. To learn about the issues related to the environment for sustainable development. CO2. To understand the Significance of Environment education CO3. To know about the Waste management practices CO4. To understand the role of individual in protecting the environment											
Practical No.	Topic			Contact Hours	Weightage (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent)/ Skill Development (SD)	Relevance to Local (L)/ National (N)/ Regional(R)/Global (G)	Relation to Gender (G), Environment and Sustainability (ES), Human Values (HV)and Professional Ethics (PE)
1	Global Environment and its management <ul style="list-style-type: none"> • Global environment for sustainable development • Sensitivity towards environment and environmental issues • Current scenario of environmental condition • Environment protection movements 			12	20	1,2,3,4,5	CO1	PSO1	SD	L,N,R,G	ES, HV,PE

2	Environmental Issues and Concerns <ul style="list-style-type: none"> Environmental resources: Classification, present status and conservation Factors affecting environmental problems: Ozone layer depletion, Pollution, Global warming, pollution and its types, climate change, Industrialization, Deforestation etc.) Measures to control the issues related to environment 	12	20	1.2	CO2	PSO2	SD	L,N,R,G	ES, HV,PE
3	Waste Management <ul style="list-style-type: none"> Waste Management for Sustainable Development Types of waste management techniques Waste segregation and its disposal Environment Friendly practices and the use of Environment Friendly products 	12	30	2,3,6	CO3	PSO3	ENT	L,N,RG	ES, HV, PE
4	Environment protection at Global level <ul style="list-style-type: none"> Concept and components under environment protection Global efforts undertaken: Legislations, Earth summits and other measures Green consumerism for sustainable development Critical thinking, utilization of skills and reflective solutions Local strategies and innovations in Environmental Protection Active Participation in the resolution of Environmental Challenges 	12	30	2,3,6	CO4	PSO4	SD	L,N,R,G	ES, HV,PE

References

1.	Gandotra, V and Patel S., (2008), "Environmental Problems and Strategies", New Delhi, Serials Publications.
2.	Garg, M.R. and Bansal, V.K: (1995) "Environmental Pollution and Protection", Deep and Deep Publication, New Delhi.
3.	Ghosh, G.K. (1992) "Environmental Pollution "Ashish Publishing House, New Delhi.
4.	Rao, N. (1986) "What's environment all about? Centre for Environment Concerns New Delhi, India.

5.	Singh, P. (1985)“Environmental Pollution and Management”, Chugh Publishing, Allahabad.
6.	Wick, S. (1976) “Ecology and the Quality of our Environment”, D. Van Nosor and Co., New York.


Bloom's Taxonomy Levels: 1.Remember 2.Understand 3.Application 4.Analysis 5.Evaluation 6. Creation Programme

Name: Ph.D. - Family and Community Resource Management

Program Specific Outcome (PSO)

At the end of the completion of the course of the Ph.D. programme, the following are the program outcomes:

1. The students would be able to develop skill in writing a Research Proposal
2. The students would be able to learn the Importance of Scientific Writing
3. The students would be able to understand Appropriate Statistical Techniques for data analysis.
4. The students would be able to interpret data
5. The students would be able to understand the ethical principles
6. The students would be able to develop referencing skills

		NAAC Accredited “A+”Grade Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda				Academic Year		2023-24			
Ph.D. (F.C.Sc) FCRM- Programme											
Year	I	Research Proposal			Credits / Hours per week			03(0+3)			
Semester	Year of Introduction:2023-24 Year of Syllabus Revision:2023-24			Maximum Grade			O				
Mode of Transaction	Practical's										
Course Outcome (CO) CO1. To develop skill in writing a Research Proposal. CO2. To Understand various Research Methodologies CO3. To learn the Importance of Scientific Writing CO4. To develop Competency in Writing and Abstracting Skills. CO5. To Understand Appropriate Statistical Techniques for data analysis. CO6. To learn interpretation of data and discussion CO7. To learn referencing skills											
Practical No.	Topic			Contact Hours	Weightage (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent)/ Skill Development (SD)	Relevance to Local (L)/ National (N)/ Regional(R)/Global (G)	Relation to Gender (G), Environment and Sustainability (ES), Human Values (HV) and Professional Ethics (PE)
1	Introduction and justification			5	10	1,2,3,4,5	CO1	PSO1	SD	L,N,R,G	PE
2	Review of literature			10	15	1,2,3,4,5	CO3	PSO1		L,N,R,G	PE

3	Methodology <ul style="list-style-type: none"> • Research design • Sampling and sampling procedure • Data types and data collection techniques • Quantitative and qualitative methods and data analysis 	5	10	1,2,3,4,5	CO2,4	PSO3	SD	L,N,R,G	PE
4	Result and discussions	5	15	1,2,3,4,5	CO5,6	PSO4	SD	L,N,R,G	PE
5	Scientific writing	8	20	1,2,3,4,5	CO3	PSO2	SD	L,N,R,G	PE
6	Scientific presentation	5	10	1,2,3,4,5	CO3	PSO2	SD	L,N,R,G	PE
7	Ethical issues	5	10	1,2,3,4,5	CO1	PSO5	SD	L,N,R,G	HV,PE
8	Referencing style	5	10	1,2,3,4,5	CO7	PSO6	SD	L,N,R,G	PE

References

1.	Ahuja, R. (2012). Research Methodology (p. 120). Prem Rawat for Rawat Publications, Jaipur
2.	APA (1984). Publication Manual of American Psychological Association (3rd Ed.), Washignton: APA.
3.	Best, J.W. and Kahn, J.V. (2006) Research in Education. 10th Edition, Pearson Education Inc., Cape Town.
4.	Bouchrika, I. (2022). How to Write Research Methodology: Overview, Tips, and Techniques. https://research.com/ .
5.	Bandarkar. Wilkinson. (2000). Methodology and Techniques of Social Research. Mumbai: Himalaya Publishing House.
6.	Bhatnagar. (1990). Research Methods and Measurements in Behavioural and Social Sciences. New Delhi: Agri. Cole Publishing Academy.
7.	Dooley. (1995). Strategies for Interpreting Qualitative Data. California: Sage Publications.
8.	Kothari C. R. and Garg G., (2014) Research Methodology: Methods and Techniques. (3rd Ed.), New Delhi, New Age International (P.) Ltd. Publishers
9.	Stranss. A and Corbi. J, (1990). Basis of Qualitative Research: Gorunded Theory Procedures and Techniques. California: Sage Publications.