

SHRI DAVARA UNIVERSITY NAYA RAIPUR (C.G.)



**Faculty of Science
(FOS)**
Department of Forestry & Wildlife

CURRICULUM

for

**Master of Science (M.Sc) Forestry and wildlife
PROGRAM CODE: FOSMSC2FW**

Master of Science (M.Sc) in Forestry & Wildlife -2 Years

Department of Forestry & Wildlife, Faculty of Science

SHRI DAVARA UNIVERSITY NAYA RAIPUR (C.G.)

Shri Davara University, Naya Raipur

Semester-II

(Effective Session: 2025-26)

CourseType	CourseCode	CourseTitle	LTP Ratio				Assessment Marks		
			L	T	P	Credits	Formative	Summative	Total
Semester-II									
DSC	MSFW-201T	Silviculture and Silviculture system	4	1	-	5	30	70	100
DSC	MSFW-202T	Forest management, Remote Sensing & GIS	4	1	-	5	30	70	100
DSC	MSFW-203T	Forest legislation , Act and Policy in Forestry Wildlife and Environment	4	1	-	5	30	70	100
DSE	MSFW-204T	Forest Product and Utilization	4	1	-	5	30	70	100
Practical	MSFW-205P	Forestry & Wildlife Lab Course: III			4	2	15	35	50
Practical	MSFW-206P	Forestry & Wildlife Lab Course: IV			4	2	15	35	50
GE	MSFW-207T	Research Methodology	2	-	-	2	15	35	50
	Total		16	4	8	26			550

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Title	Silviculture and Silviculture system				
Code	MSFW-201T				
Credit	L	T	P	TC	
	4	1	-	5	
Prerequisite	Basic knowledge of forest ecology, Understanding of tree biology and regeneration, Concept of forest management objectives				
Objective	To understand the scientific principles and management methods used for regeneration, growth, and sustainable utilization of forest crops.				
Content	<p>UNIT 1</p> <p>Definition – scope and concept - Basic facts on plants on plants and silviculture, Plant propagation,</p> <p>Nursery – Nursery classification , site selection nursery layout containers, medium , nursery beds, polybag and its maintatence , agrinet house , seedling establishment, grading and hardening of seedlings nursery register, Hitch nursery.</p> <p>Forest classification- Definition and basis of forest classification , Schemes classification , champion and Seth forest classification.</p> <p>UNIT II</p> <p>Regeneration of forest – Natural regeneration (NR) NR by seeds factors affection natural regeneration by seeds , seed propagation , seed dispersal seed generation seedling establishment , natural regeneration under shelterwood systems, NR By coppices , NR by root suckers, Artificial regeneration , Planting methods – Planting an entire plant, stump planting , seed planting, seed storage , seed sampling , seed treatment.</p> <p>Tending of forest crops</p> <p>Weeding , cleaning , thinning , climber cutting , control burning , Wastelands and its afforestation , Miscellaneous information.</p>				

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	<p>UNIT III</p> <p>Classification –I. High forest system</p> <p>A. System of concentrated Regeneration - Clear felling system , Alternative strip system , Shelterwood system : Uniform system , Group system , The shelterwood strip system ,Wagner’s Blender Saumschlag system. Indian irregular shelterwood system.</p> <p>B. System of diffused regeneration : Selection system – Group selection system</p> <p>UNIT IV</p> <p>Assessory silvicultural system</p> <p>Tow stories with high forest system – High forests with reserve system – Improvement felling.</p> <p>Coppice forest system</p> <p>Simple coppice system- coppice with two rotation system ,Choice of silvicultural system , Conservation, Management of bamboo forest, Management of avenue and road side plantation , Miscellaneous information,</p>
Outcome	On the completion of this course successfully student will be able to understand the development of the inorganic chemistry.
Text Books	<ol style="list-style-type: none"> 1. Silviculture of Indian Trees (Vol. I, II & III) Author: R. S. Troup 2. Principles of Silviculture : Mark S. Ashton & Matthew J. Kelty 3. The Silviculture of Trees Used in British Forestry: F. G. Peterken 4. Indian Silviculture: A. L. Champion & S. K. Seth
Reference Books	<ol style="list-style-type: none"> 1. Negi, S. S. (2016). <i>Principles and Practices of Silviculture.</i> Dehradun: Bishen Singh Mahendra Pal Singh Publishers. 2. Ashton, M. S., & Kelty, M. J. (2018). <i>The Practice of Silviculture: Applied Forest Ecology.</i> Wiley-Blackwell, USA. 3. Hawley, R. C., & Smith, D. M. (1996). <i>The Practice of Silviculture.</i> New York: John Wiley & Sons.

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Title	Forest management, Remote Sensing & GIS				
Code	MSFW-202T				
Credit	L	T	P	TC	
	4	1	-	5	
Prerequisite	<ol style="list-style-type: none"> 1. Basic understanding of forest ecology, vegetation types, and natural resource management. 2. Fundamental knowledge of maps, coordinates, and spatial data interpretation. 3. Basic computer skills and familiarity with geographical tools, satellite imagery, and GIS software for analyzing forest resources. 				
Objective	To apply Remote Sensing and GIS techniques for effective monitoring, mapping, and sustainable management of forest resources.				
Content	<p>UNIT I</p> <p>Forest management: Definition scope of forest management , management of private forest , Concepts of yield and principle advantages and disadvantages- intermediate yield, normal yield , progressive yield.</p> <p>Types of rotation- Physical rotation , Silvicultural rotation , Technical rotation , Rotation of maximum volume income, Rotation of highest income , Financial or Economical rotation.</p> <p>Choice of rotation- Normal forest and Increment</p> <p>UNIT II</p> <p>Remote Sensing , definition , advantages , energy sources, principle of remote sensing Aerial photography.</p> <p>Classification of remote sensing Aerial Photographs.</p> <p>Platform air borne platforms , space borne platform , Sensor – Characteristics of</p>				

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	<p>sensor , classification of sensors , Aerial photo Interpretati.on</p> <p>UNIT III</p> <p>Interpretation Method</p> <p>(A) Visual interpretation of aerial photographs : elements of visual interpretation , colour , texture , shape, size, pattern , shadows, location , association .</p> <p>(B) Digital image interpretation – Digital image processing : Image rectification and restoration , image enhancement , image classification , data merging and GIS integration , biophysical modeling.</p> <p>UNIT IV</p> <p>Application of remote sensing</p> <p>Forest cover mapping , monitoring , forest determination , Fire risk assessment.</p> <p>Habitat evaluation , land use mapping , Land degradation mapping , soil mapping , watershed management , Tsunami hazard mapping, Flood risk mapping , agroecological zoning,</p> <p>Geographic Information System : Definition , advantages, components, applications,</p> <p>Global Positioning System: Advantages, components , working principle, Sources of errors application.</p>
<p>Outcome</p>	<p>Students will develop the ability to use Remote Sensing and GIS tools to map and Analyze forest resources.</p> <p>They will also be able to support scientific forest planning, monitoring, and sustainable management.</p>

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Text Books	<ol style="list-style-type: none"> 1. Remote Sensing for Sustainable Forest Management — <i>Steven E. Franklin</i> Advanced Organic Chemistry, F.A. Carey and R.J. Sundberg, Plenum. 2. Sampling Methods, Remote Sensing and GIS Multiresource Forest Inventory — <i>Michael Köhl, Steen Magnussen, Marco Marchetti</i> 3. Remote Sensing and Geographic Information System in Forestry — <i>Girish B. Shahapurmath & A. G. Koppad</i> 4. Remote Sensing and GIS in Natural Resource Management — <i>Gouri Sankar Bhunia, Uday Chatterjee, Gopal Krishna Panda & Pravat Kumar Shit</i>
Reference Books	<ol style="list-style-type: none"> 1. Indian forestry: A breakthrough approach to forest service by K manikandan & S. Prabhu, IFS 2. Concepts and Applications of Remote Sensing in Forestry — <i>Mohd Nazip Suratman</i> 3. Introduction to Forestry and Natural Resources — <i>Donald L. Grebner, Pete Bettinger & Jacek Siry</i> 4. Practical Forestry for the Agent and Surveyor — <i>Cyril E. Hart</i> (a standard forestry reference used by forestry students) 5. Forest Management — <i>Lawrence S. Davis, K. Norman Johnson, Peter Bettinger & Theodore Howard</i>

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Title	Forest legislation , Act and Policy in Forestry Wildlife and Environment				
Code	MSFW-203T				
Credit	L	T	P	TC	
	4	1	-	5	
Prerequisite	<ol style="list-style-type: none"> 1. Basic understanding of forest resources, wildlife conservation, and environmental management. 2. Knowledge of major environmental issues and natural resource governance. 3. Familiarity with Indian administrative and legal systems related to forests and wildlife. 				
Objective	<p>To understand the forest, wildlife, and environmental laws, acts, and policies governing natural resources in India.</p> <p>To develop awareness about legal frameworks for conservation and sustainable management.</p>				
Content	<p>UNIT I</p> <p>Introduction: Necessity of special forest law, History of forest legislation.</p> <p>Indian forest Act 1972 : constitution of reserve forest, protected forest , control on forest produce in transit.</p> <p>Wildlife Protection Act 1972 – Amendments to the wildlife Protection Act.</p> <p>.</p> <p>UNIT II</p> <p>Forest conservation act 1980 – Amendments of Forest Conservation act (1988)</p> <p>National Forest policy 1894, National forest policy 1952, National Forest policy 1988, Application of Indian penal code in forest offences. Broad comparison of different protected areas and forest policy.</p> <p>Scheduled tribes and other Traditional forest Dwellers (Recognition of forest Rights) Act-2006</p> <p>UNIT III</p>				

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	<p>Wildlife: Definition , values, wildlife in Indian constitution.</p> <p>Wildlife ecology and biology ; Light , temperature, rainfall, water , edapic , edapic or soil factors biotic factors.</p> <p>Migration of animal – Local migration , long distance movement.</p> <p>Predation : habitat predation , sanitary predation.</p> <p>Age determination in animals: basic principles and methods of age determination . Capturing of animal: method – bites and scents, kill trapping , live trapping , drugs used in animal capturing.</p> <p>UNIT IV</p> <p>Census- kinds , total count census, sample count census , census methods.</p> <p>Wildlife management: Food management , water management cover or shelter rmanagement Habitat improvement measures , predation management , tourism management.</p> <p>Wildlife Diseases</p> <p>Difference between ; Africation and Indian elephant , Gorilla and Chimpanzee, Antelope and deer, parrot and parakeet , tiger and panther, dove and pigeon , turtle and tortoise.</p>
<p>Outcome</p>	<p>Students will be able to interpret and apply important forest and environmental legislations in conservation practices.</p> <p>They will gain the ability to support policy implementation and environmental protection initiatives.</p>
<p>Text Books</p>	<ol style="list-style-type: none"> 1. Forest Policy, Laws, Legislation and Constitution of India Authors: <i>Girish B. Shahapurmath & M. Hanumantha</i> 2. Forest Policies, Laws and Governance in India Editor: <i>Asheem Kumar Srivastav</i> 3. Law of Forest Conservation Author: <i>Chandra Prakash Goyal</i>
<p>Reference</p>	<ol style="list-style-type: none"> 1. Indian forestry: A breakthrough approach to forest service by K manikandan & S. Prabhu, IFS

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Books	<p>2. Concepts and Applications of Remote Sensing in Forestry — <i>Mohd Nazip Suratman</i></p> <p>3. Introduction to Forestry and Natural Resources — <i>Donald L. Grebner, Pete Bettinger & Jacek Siry</i></p> <p>4. Practical Forestry for the Agent and Surveyor — <i>Cyril E. Hart</i> (a standard forestry reference used by forestry students)</p> <p>Forest Management — <i>Lawrence S. Davis, K. Norman Johnson, Peter Bettinger & Theodore Howard</i></p>
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Title	Forest Product and Utilization				
Code	MSFW-204T				
Credit	L	T	P	TC	
	4	1	-	5	
Prerequisite	Basic knowledge of forest resources and tree species is required. Understanding of timber and non-timber forest products (NTFPs) and their economic importance. Familiarity with basic forestry practices and forest-based industries.				
Objective	<ol style="list-style-type: none"> 1. To equip students on the status of forest products of Indian forests 2. To aware learners on economy status of different non wood products 3. To acquainted students on the processing, value addition and marketing procedures of forest products and its utilization pattern. 				
Content	<p>UNIT I</p> <p>Medicinal and aromatic plant wealth of India, Importance of medicinal and aromatic plants in human health, national economy and related industries. Need of cultivation of medicinal and aromatic plants as agricultural crops. Quality concern in plant based drugs. National Medicinal plant development boards, Cultivation techniques of important medicinal plants: Senna, Gloriosa superba, Valeriana jatamansi, Swertia chirayita, Isabgol, Rauwolfia serpentina, Withania sominifera, Opium Poppy, Aloe vera, Pera, Satavar, Stevia rebaudiana, Safed Musli other important aromatic species of the region. Postharvest processing- drying, grading and storage. Essential oils and their quality analysis. Important industries based on non wood forest products and their management.</p> <p>UNIT II</p> <p>Supply and demand status of wood, export, and import of timber, its products, and channels. Brief status of solid wood, reconstituted, and handicraft industry; such as wood carving, basketry, executive desk accessories, furniture, joinery, cabinets, sports goods, sawmills, wood seasoning, flooring and paneling, automobile body building, wood treatment, wood preservation, building construction, packaging and boats. Industrial utilization of wood and bark. Classification of non-wood forest products like gums and resins, katha, dyes,</p>				

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	<p>tannins, oils, raw drugs, bamboo, canes and other products. Technologies for extraction of gums, resins, oleo-resin katha, dyes, tannins, oils, raw drugs and other products. Tendu leaves, Lac, and Sericulture. Utilization of various non wood forest products and their scientific management for processing, value addition, storage and marketing.</p> <p>UNIT III</p> <p>Felling and conservation : felling with axe alone, felling with axe and sasw , felling with saw alone. Long making – purposes of long making -, factors that determine long lengths , Transport: Modes of major transportation. Transportation by water : - Floating , telescopic floating , river floating , rafting , types of raftsbooms, types of boom , wet slides. Over head transportation , single ropes , double or multiple ropes.</p> <p>UNIT IV</p> <p>Storage of Timber – stacking of wood, Disposal and sell of forest produce, System of extraction and disposal : felling and extraction by government agency – felling and extraction by purchasers alone felling and extraction by government and purchases combined ,</p> <p>System of sale : sale by private bargain , sale to the highest bidder , sale by royalty or fixed tariff .</p> <p>Minor forest produces – Beedi leaves , lac and shellac , resin, cutch and katha , charcoal.</p>
Outcome	<ol style="list-style-type: none"> 1. Students will understand the types, processing, and economic importance of forest products. 2. They will be able to apply methods for sustainable utilization and management of forest resources.
Text Books	<ol style="list-style-type: none"> 1. Linskens HF and Jackson JF. 1991. Essential Oils and Waxes (Ed.). Springer-Verlag Berlin Heidelberg. 2. Mathe A. 2015. Medicinal and Aromatic Plants of the World-Scientific, Production, Commercial and Utilization Aspects. Springer Netherlands. 3. Panda H. 2005. Hand Book on Specialty Gums, Adhesive, Oils, Rosin And Derivatives, Resins, Oleoresins, Katha, Chemicals with others Natural Products. Asia Pacific business press. Inc.

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	<p>4. Panshin AJ, Harrer ES and Bethel JS. Forest Products, their Sources, Production and Utilization. Shackleton S, Shackleton C and Shanley P. 2011. Non-Timber Forest Products in the Global Context (Ed.). Springer, Verlag Berlin Heidelberg.</p>
Reference Books	<ol style="list-style-type: none">1. Indian forestry: A breakthrough approach to forest service by K manikandan & S. Prabhu, IFS2. Panshin AJ, Harrer ES and Bethel JS. Forest Products, their Sources, Production and Utilization. Shackleton S, Shackleton C and Shanley P. 2011. Non-Timber Forest Products in the Global Context (Ed.). Springer, Verlag Berlin Heidelberg.3. Mathe A. 2015. Medicinal and Aromatic Plants of the World-Scientific, Production, Commercial and Utilization Aspects. Springer Netherlands.4. Linskens HF and Jackson JF. 1991. Essential Oils and Waxes (Ed.). Springer-Verlag Berlin Heidelberg.

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Title	FORESTRY AND WILDLIFE – LAB COURSR- I				
Code	MSFW-205P				
Credit	L	T	P	TC	
	0	0	2	2	
Prerequisite	To know theoretical knowledge about forest menegament. And its product and forest product.				
Objective	<ol style="list-style-type: none"> 1. To develop understanding of student on the characteristics of various tree species and Forest classification of India. 2. 2. To perform the regeneration survey, production techniques of tree species and their adaptations to different type of environments. 3. 3. Tacquire knowledge on forest operations required for sustainable forest management 				
Content	<p>Acquaintance with various technical terms of silviculture. Study the forest composition. Recording the observations on shoot development, growth rings, crown development, leafing, flowering, and fruiting in (Shorea robusta, Tectona grandis, Gmelina arborea, Eucalyptus spp. Bamboo spp Cedrus deodara, Dalbergia sisoo).Study of site factors like climatic, edaphic, physiographic and biotic. Study of natural regeneration, Afforestation and Reforestation success. Layout of nursery bed for sowing. Classification of world's forest vegetation. Visit to forest areas to study forest composition, classification, factors of locality, site quality, form and growth of forest trees- study plant succession- study stand density, changes on productivity- thinning effects.</p> <p>Study of various records and forms maintained in Forest division with regard to management of forests under their control. Study of working plans of the forests. Toposheet reading, determination of scale and height on toposheets, introduction to different GIS software, conversion of file formats, image registration / geocoding, digitization, geo-referencing, Projection, File sub setting, mosaicing, unsupervised and supervised classification of forest, map preparation for forest cover, type, slope, LULC, fire, field visit for ground truthing.</p>				

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Outcome	<ol style="list-style-type: none"> 1. Student ability to perform forest evaluation based on criteria and indicators. 2. Students ability assessing forest productivity, increment and ecological aspects. 3. Students will be familiar on the use and procedure of remote Sensing and GIS and mapping using computer based software.
Text Books	<ol style="list-style-type: none"> 1. Dwivedi AP. 1992. Agroforestry: Principles and Practices. Oxford and IBH. 2. Dwivedi AP. 1993. A Text Book of Silviculture. International Book Distributors, Dehradun. 3. Khanna LS. 1996. Principle and Practice of Silviculture. International Book Distributors. Smith DM, Larson Be, Ketty MJ & Ashton PMS. 1997. 4. Jha, L. K.2014.Advances in Agroforestry, Today & Tomorrow's Printers and PublishersNew Delhi. 5. Chandra KK and Kumar R. 2022. Practical book on forestry. Scientific publication, Jodhpur, Rajasthan, India. 6. Mishra, S R. 2010. Textbook of Dendrology, Today & Tomorrow's Printers and Publishers New Delhi Patra, A K. 2013 Agroforestry: Principles and Practices, Today& Tomorrow's Printers and Publishers New Delhi. 7. Pradeep Krishan. 2013. Jungle trees of Central India. Penguin Books India. 8. Smith DM, Larson BC, Ketty MJ, and Ashton PMS.1997. The Practicves of Silviculture- Applied Forest Ecology. John Wiley & Sons. 9. Raj, Antony Joseph & S B Lal. 2014. Agroforestry: Theory and Practices, Today & Tomorrow's Printers and PublishersNew Delhi
Reference Books	<ol style="list-style-type: none"> 1. Burrough PA.1990. Principles of GIS for Land Resources Assessment, Oxford & IBH Lilesand T.M. Clarke, Keith. 2011.

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	<p>2. Geographical Information System, Prentice Hall. Dwivedi A.P. 1993. A Text Book of Silviculture, International Book Distributors, Dehradun. J.B.Lal.2011</p> <p>3. Forest Management: Classical Approach and Current Imperatives, Natraj Publishers, Dehradun.</p>
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Title	FORESTRY AND WILDLIFE LAB COURSE:II				
Code	MSFW-206P				
Credit	L	T	P	TC	
	0	0	2	2	
Prerequisite	Know about previous knowledge about forest rules and regulation made by central and state forest organization				
Objective	<p>1. To enrich the students on forest management, and its functions productive, protective, recreation and bio-aesthetic value.</p> <p>2. To provide knowledge on criteria and indicators for forest evaluation and site assessment.</p> <p>3. To develop competency on remote sensing and GIS techniques for forest survey and management.</p>				
Content	Extraction of resins, gums, katha, dyes, tannins, oils raw drugs, bamboos, canes and other products; Estimation of tannins, essential oils in sandalwood, dyes and dyeing trials on different fabrics; Value addition techniques for these products; Visit to non wood forest products based				

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	<p>industries. Morphological identification of listed plants and their economic parts, maturity indices; Preparation and layout of nursery and field, methods of seed sowing/ transplantation, cultural operations in MAP crops; Visit to government and private Pharmaceutical units/Institutes in adjoining areas and MACP; Visit to nearby marketing/ trade centres.</p> <p>Visit to High Court, Lower Court. Visit to forest depot. Visit and study about crime cell of the forest department, case studies. IPR investigations and understanding the working system. Study on the awareness of International treaties and their uses in the local areas. Database preparation for different offences recorded in the forest.</p>
Outcome	To understand about the silviculture and their practical knowledge.
Text Books	<ol style="list-style-type: none"> 1. Chaturvedi A.N 2011. Forest Policy and law, Khanna Bandhu. 2. Indian Forest Acts (with short notes) 1975. Allahabad Law Agency. 3. Jha LK. 1994. Analysis and Appraisal of India's Forest Policy. AshishPub!.House. 4. Poddar A.K. et al. 2011.Forest Laws and Plicies in India, Today and Tomarrow Printers and Publishers New Delhi 5. Prabhakar V.K., 2001. Laws on Forests, Anm Publication. 6. National Forest Policy 1952. Ministry of Food and Agriculture, New Delhi. 7. National Forest Policy 1988. Ministry of Environment and Forests, New Delhi. 8. Saharia, VB. 1989. Wildlife Law in India. Natraj Publ. 9. Sairam Bhat 2010. Natural Resources Conservation Law, Sage. <p>Negi SS. 1985. Forest Law. Natraj Publ.</p>
Reference Books	<ol style="list-style-type: none"> 1. Poddar A.K. et al. 2011.Forest Laws and Plicies in India, Today and Tomarrow Printers and Publishers New Delhi 2. Prabhakar V.K., 2001. Laws on Forests, Anm Publication. 3. National Forest Policy 1952. Ministry of Food and Agriculture, New Delhi.

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	<p>4. National Forest Policy 1988. Ministry of Environment and Forests, New Delhi.</p> <p>5. Saharia, VB. 1989. Wildlife Law in India. Natraj Publ.</p> <p>6. Sairam Bhat 2010. Natural Resources Conservation Law, Sage. Negi SS. 1985. Forest Law. Natraj Publ.</p>
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Title	RESEARCH METHODOLOGY				
Code	MSCSE207				
Credit	L	T	P	TC	
	2	-	-	2	
Prerequisite	Students must appears in end semester examination of M.Sc. Chemistry				
Objective	Research Methodology for Chemistry in advance and establish foundation to research in the respective domain.				

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Content	<p>UNIT I Research: An Introduction</p> <p>a) Types of Scientific Methods: Hypothetic-Deductive and Inductive Research b) Types of Research: Basic vs. Applied, Quantitative vs. Qualitative Research c) Principles of a Good Research</p> <p>UNIT II The Research Process</p> <p>a) Stages of conducting a Research b) Problem and Hypothesis: Definition, Types c) Variables: Types, Operational definition</p> <p>. UNIT III Behavioural Research I</p> <p>a) Control of Extraneous Variables b) Laboratory experiments, Field Experiments c) Field study, Survey</p> <p>UNIT IV Behavioural Research II</p> <p>a) Research: Causality and It's criteria b) Threats to Internal and External Validity c) Non-Experimental Research: Co-relational Research, Survey d) Sampling Issues: Representativeness and Adequacy e) Sampling Strategies: Probability and Non-probability Sampling, Sampling Errors f) Demand Characteristics and Ethical issues in Research</p>
Course Objectives	<p>The course aims to enable the students learn the concepts of Research techniques and it's applicability in the various minor and major researches. Fundamentals of research with specific reference to quantitative research methods would facilitate the students towards exploring the area of their interest.</p>
Outcome	<p>The course aims to enable the students learn the concepts of Research techniques and it's applicability in the various minor and major researches. Fundamentals of research with specific reference to quantitative research methods would facilitate the students towards exploring the area of their interest.</p>
Books	<p>Aronson, E. and Ellsworth D.C., Carlsmith, J.M., Gonzales, M.I</p>

Board of Studies

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Recommended:	

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