

SARDAR PATEL UNIVERSITY

LL.M. (Environment and Legal Order)

Semester-III (Effect from 2022-2023)

Programme Outcome (PO) – For LL.M. (Environment and Legal Order Group) Programme	About Programme: LLM in Environmental and Legal Order Law Group at Sardar Patel University is Four semesters post graduation programme is designed for those, who are interested to learn to understand the orientation of legal framework towards sustainable economic activity. While specializing in environmental law students are encouraged to research and explore issues concerning environmental policy, such as global warming, climate change, water waste etc. LL.M. in Environmental and Legal Order covers local and international legal frameworks for environmental protection, climate change protection and vital use of natural resources. During the programme the students are exposed to many issues like water law, business and trade, different forms of pollution, land issues and environmental justice.
Programme Specific Outcome (PSO) – For LL.M. (Environment & Legal Order Group)	PO1 This course is intended to highlight the History of Environmental law, Concept of Fundamental Rights, Fundamental Duties, evolution and importance of environmental law in our society in present times, particularly in the era of pollution, global warming, and environment protection.
	PO2 On completion of this Master degree with specialisation in Environmental and legal order students have opportunity to work in law firms, be a legal advisor, be a Legal Associate, Advocate District, Session court.
	PO3 On completion of this Master degree specialisation programme students will must be able to deal with violations related to the issues concerning to environmental issues and problems to assess any programme of social transformation with reference to them.
	PO4 This program will develop comprehending and analytical skills in students which will enable them to become responsible citizens.
	PO5 This program will sensitize the learner about awareness about environmental law, values, responsibilities and duties of the citizens.

	PSO1	The motive of this programme to develop the student's skill in the field of environment law disruption, preventing litigation and helping businesses and individuals from incurring huge loses.
	PSO2	LLM Environmental Law student can plan a career in research and obtain a Ph.D. With good experience in hand.
	PSO3	Students may even prepare for UPSC exams as Lawyers have a good demand as bureaucrats.
	PSO4	To grow proper orientation towards legal and professional education of environment to become a skilled law teacher.
	PSO5	To provide Responsible Advocates for the identifying and monitoring any environmental issue or business activity that affects or may affect the client.

To Pass	<p>(1) A candidate must have at 70% of attendance in the each semester of the LL.M. programme and shall have satisfactory performance in class participation, seminar, assignment of each paper and must have appeared in the internal written test, to be Eligible for grant of the respective semester except Semester-IV in which there will be no internal test.</p> <p>(2) A candidate for Semester-I if granted as prescribed in (1) above shall be allowed to proceed to Semester-II.</p> <p>(3) A candidate shall be allowed to proceed in Semester-III only after fully passing both Semester-I and Semester-II.</p> <p>(4) A candidate shall be allowed to proceed to the semester-IV only after fully passing both Semester-I and Semester-II and his/her Semester-III has been duly granted.</p> <p>(5) The candidate shall be eligible for the award of LL.M. Degree after successfully passing all papers/courses of Semesters I, II, III & IV. The candidate will be allowed to appear in the respective End-Semester Examination during validity of his LL.M. registration.</p> <p>(6) There shall be no ATKT or provision for exemption in the LL.M. Programme.</p> <p>(7) A candidate who fails in a paper/course due to failure in obtaining minimum marks in the internal head of the paper/course, the marks obtained in attendance, class participation seminar, Assignment, Internal test shall be carried forward till date validity of the registration and the terms granted continue.</p> <p>The University Rules with regard to gracing of marks shall be followed.</p>
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Course Type	Course Code	Name of Course	Theory/Practical	Credit	Exam Duration in hrs	Component of Marks		
						Internal	External	Total
						Total	Total	Total
Core Course	PL03CLEN51	Judicial Process	T	5	3	12/30	28/70	40/100
	PL03CLEN52	Legal Education & Research Methodology	T	5	3	12/30	28/70	40/100
Elective Course	PL03ELEN51	Biodiversity & Law	T	5	3	12/30	28/70	40/100
	PL03ELEN52	Climate Change & Law	T	5	3	12/30	28/70	40/100
	PL03ELEN53	Environment, Technology & Law	T	5	3	12/30	28/70	40/100



Master of Laws (Environment & Legal Order Group)
LL.M. (Environment& Legal Order Group) Semester- III

Course Code	PL03CLEN51	Title of the Course	Judicial Process
Total Credits of the Course	5	Hours per Week	

Course Objectives:	<ol style="list-style-type: none"> 1. The aim of the course is to make the learners aware about the nature and scope of judicial process, interpretive techniques, relevance of law to provide justice, role of judge's social engineering helping the state to maintain law and order and shape contents of law with the passage of time. 2. The course is useful for the learners in learning the method to read and analyze the judgments, techniques of drawing the analogies by judges from the arguments of the counsels, application of legal principles and legal concepts to resolve the disputes for operationalizing the law. 3. To understand how judicial process is an instrument of social ordering. 4. To understand the various tools and techniques of judicial creativity and precedent. 5. To understand the meaning and limitations of independence of judiciary and the political nature of judicial process. 6. To understand the relation between law and justice with the help of various theories.
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Unit	Description	Weightage* (%)
1.	Nature of Judicial Process 1.1 Judicial Process as an instrument of social ordering 1.2 Judicial process and creativity in law – common law model – Legal Reasoning and Growth of law – change and stability 1.3 The tools and techniques of judicial creativity and precedent 1.4 Legal development and creativity through legal reasoning under statutory and codified systems 1.5 Doctrine of <i>Stare Decisis</i> 1.6 Doctrine of <i>Ratio Decidendi</i> 1.7 Doctrine of <i>Obiter Dicta</i>	20%
2.	Special Dimensions of Judicial Process in Constitutional Adjudication 2.1 Notions of judicial review 2.2 'Role' in constitutional adjudication – various theories of judicial role 2.3 Tools and techniques in policy-making and creativity in constitutional adjudication	20%





	2.4 Varieties of judicial and juristic activism 2.5 Problems of accountability and judicial law-making 2.6 Judicial Activism in Constitutional Amendments with special reference to Basic Structure Doctrine	
3.	Judicial Process in India 3.1 Indian debate on the role of judges and on the notion of judicial review 3.2 The “independence” of judiciary and the “political” nature of judicial process 3.3 Judicial activism and creativity of the Supreme Court – the tools and techniques of creativity 3.4 Judicial process in pursuit of constitutional goals and values – new dimensions of judicial activism and structural challenges 3.5 Institutional liability of courts and judicial activism – scope and limitations 3.6 Judicial Over-reach 3.7 Appointments and Removal of Judges 3.8 Recent Trends – 2018 Press Conference by Supreme Court Judges, Post-retirement Appointments	20%
4.	The Concepts of Justice 4.1 The concept of justice or Dharma in Indian Thought 4.2 Dharma as the foundation of legal ordering in Indian thought. 4.3 The concept and various theories of justice in the western thought 4.4 Various theoretical bases of justice: the liberal contractual tradition, the liberal utilitarian tradition and the liberal moral tradition	20%
5.	Relation between Law & Justice 5.1 Equivalence Theories – Justice as nothing more than the positive law of the stronger class 5.2 Dependence theories – For its realization justice depends on law, but justice is not the same as law 5.3 The independence of justice theories – means to end relationship of law and justice – The relationship in the context of the Indian constitutional ordering 5.4 Analysis of selected cases of the Supreme Court where the judicial process can be seen as influenced by theories of justice.	20%

PSDA (Professional Skill Development Activities)

- ❖ Statutes and Judgment Analysis
- ❖ Preparation of One Research Paper/Research Article
- ❖ Access to Legal Resources: E-Library, E-Books and E-Database
- ❖ Developing Comparative Analysis Skills





Teaching-Learning Methodology	<ul style="list-style-type: none">• Lecture Method• Power Point Presentation(including audio/video)• Expert talk• Case study
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	20%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	10%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	The course will help the learners to understand the intricacies of judicial process and growth of law through the judgments. It will sharpen the logic and enable the learners to evaluate the impact of the judgments on impact constituencies.
2.	Since the ultimate aim of any legal process or system is pursuit of justice, a systematic study of the concept of justice and its various theoretical foundations is required. This paper, therefore, intends to familiarise the students with various theories, different aspects and alternative ways, of attaining justice.

Suggested References:	
Sr. No.	References
1.	Text books: <ol style="list-style-type: none">1. The Province and Function of Law, Henry J. Abraham2. The Nature of Judicial Process (1995) Universal, New Delhi3. The Judicial Process (1998)4. Precedent and the Law: Dynamics of Common Law Growth (1985) Butterworth<ul style="list-style-type: none">• Cardozo, The Nature of Judicial Process (1995), Universal, New Delhi
2.	Reference books: <ol style="list-style-type: none">1. Legal Theory (1960), Stevens, London, Bodenheimer2. Jurisprudence – the Philosophy and Method of the Law (1997), Universal, Delhi3. The Indian Supreme Court and Politics (1980), Eastern, Lucknow





	<p>4. The Supreme Court of India – A Socio-Legal Critique of Its Juristic Techniques (1977), Tripathi, Bombay</p> <ul style="list-style-type: none">• J. Stone, Legal System and Lawyers' Reasoning's (1999), Universal, New Delhi• Edward H. Levi, An Introduction to Legal Reasoning (1970), University of Chicago
3.	<p>Journal:</p> <ol style="list-style-type: none">1. Indian Journal of Constitutional & Administrative Law <p>Indian Constitutional Law Review</p>

On-line resources to be used if available as reference material

On-line Resources:

1. SWAYAM
2. Manupatra
3. Hein Online
4. JStor
5. Bloomsbury





Master of Laws (Environment & Legal Order Group)
LL.M. (Environment & Legal Order Group) Semester- III

Course Code	PL03CLEN52	Title of the Course	Legal Education & Research Methodology
Total Credits of the Course	5	Hours per Week	

Course Objectives:	<ol style="list-style-type: none">1. Research is a desire to search or to find out or to explore an unknown area to find an answer. It is a quest for acquiring knowledge. Research is a careful investigation or inquiry especially through search for new facts in any branch of knowledge. Legal Research means research in law which deals with the principles of law and legal institutions.2. The objective may be to discover new facts or to verify the existing facts, to propound a new legal concept or to analyse existing law and give suggestions for a new law. In order to carry out a research to completion successfully a researcher must be aware of the research methods i.e. the method of doing research.3. A research method is a systematized investigation to gain new knowledge about the phenomena or problems. It is the technique of conducting research and study of the technique of doing research is research methodology. In a broader sense the research methodology includes the research methods as well as the philosophy and practice of the whole research process.4. A good research method is crucial for conducting proper research and getting useful results. This course is designed to give an insight into the meaning and significance of research methods for legal research to the law students in contemporary times.5. It aims to provide an understanding of the various types of research methods and the different techniques of legal research and legal writing with a view to equip the students for further research in law.6. To study how and why Legal Education was introduced in India.7. To be enabled to understand the Importance of Legal Education.
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Unit	Description	Weightage* (%)
1.	1.1 Objectives of Legal Education 1.2 Lecture Method of Teaching – Merits and Demerits 1.3 The problems Method	20%
2.	2.1 Discussion Method and its suitability at postgraduate-level teaching 2.2 The Seminar method of Teaching 2.3 Examination System and Problems in Evaluation – External and Internal Assessment	20%
3.	3.1 Student participation in law school programmes-Organization of	20%





	<p>Seminars, publication of journal and assessment of teachers</p> <p>3.2 Clinical, Legal Education – legal aid, legal literacy, legal survey and law reform</p> <p>3.3 Research Methods</p> <p>3.3.1 Socio-legal Research</p> <p>3.3.2 Doctrinal and non-doctrinal</p> <p>3.3.3 Relevance of empirical research</p> <p>3.3.4 Induction and deduction</p> <ul style="list-style-type: none">• Legal Education & Its Methods: Hands-on training related to Course Design including curriculum development (content, teaching pedagogies and evaluation scheme)	
4.	<p>Identification of Problem of Research</p> <p>4.1 What is a Research Problem?</p> <p>4.2 Survey of available literature and bibliographical research</p> <p>4.3 Legislative materials including subordinate legislation, notification and policy statements</p> <p>4.4 Decisional materials including foreign decisions, methods of discovering the rule of the case” tracing the history of important cases and ensuing that these have not been over-rules; discovering judicial conflict in the area pertaining to the research problem and the reason thereof.</p> <p>4.5 Juristic writings-a survey of juristic literature relevant to select problems in India and foreign periodicals.</p> <p>4.6 Compilation of list of reports or special studies conducted relevant to the problem.</p>	20%
5.	<p>Preparation of the Research Design</p> <p>5.1 Formulation of the research problem</p> <p>5.2 Devising tools and techniques for collection of date: Methodology</p> <p>5.2.1 Methods for the connection of statutory and case materials and jurists Literature</p> <p>5.2.2 Use of historical and comparative research materials</p> <p>5.2.3 Use of observation studies</p> <p>5.2.4 Use of questionnaires/interview</p> <p>5.2.5 Use of case studies</p> <p>5.2.6 Sampling procedures – design of sample, types of sampling to be adopted</p> <p>5.2.7 Use of scaling techniques</p> <p>5.2.8 Jurimetrics</p> <p>5.3 Computerized Research – A Study of legal research programmes such as Lexis and West Law Coding</p> <p>5.4 Classification and tabulation of data – use of cards for data collection – Rules for tabulation, Explanation of tabulated data</p> <p>5.5 Analysis of data</p>	20%





	<ul style="list-style-type: none">• Preparation of Research Proposal• Quantitative Tools and Techniques	
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PSDA (Professional Skill Development Activities)	
❖	Statutes and Judgment Analysis
❖	Preparation of One Research Paper/Research Article
❖	Access to Legal Resources: E-Library, E-Books and E-Database
❖	Developing Comparative Analysis Skills

Teaching-Learning Methodology	<ul style="list-style-type: none">• Lecture Method• Power Point Presentation (including audio/video)• Expert talk• Case study
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage (%)
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	20%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	10%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	To understand the meaning, definition, nature and scope of research.
2.	To understand the implications of research and develop their interest to contribute in addition of knowledge.
3.	To acquaint students with various types of research methodology helping them to formulate hypothesis, awareness about the techniques of data collection, interpretation of data, drawing of observation, etc.

Suggested References:





Sr. No.	References
1.	Text books: 1. Legal Education in India (1973), Tripathi Bombay – S.K. Agrawal
2.	Reference books: 1. Nigel Dunne and Richard Crimes, Clinical Legal Education: Active Learning in your Law School (1998) Blackstone Press Ltd. London 2. H. Bitner and Bysiewicz, Effective Legal Research (1978) – M.O. Price 3. Methods in Social Research, McGraw Hill Book Company, London – William J. Grade & Paul K. Hat 4. The Art of Asking Questions (1965) – Payne 5. Legal Research in Nutshell (1996), West Publishing Co. – Morris L. Cohan 6. Legal Research and Methodology – ILI Publication

On-line Resources
1. SWAYAM
2. Hein Online
3. Manupatra
4. JStor
5. Bloomsbury





Master of Laws (Environment & Legal Order Group)
LL.M. (Environment & Legal Order Group) Semester-III

Course Code	PL03ELEN51	Title of the Course	Biodiversity & Law
Total Credits of the Course	5	Hours per Week	

Course Objectives:	<p>Sustainable use of resources, natural and man-made is the desideratum in an environmentally conscious period of human development. Wise use of water, land, forest and other common property resources, such as wetlands, lakes, roads and parks become an important task in this respect. Protection of various energy resources is equally significant element in countering wastage, indiscriminate use and unwise choices. The aim of this course are as follows: -</p> <ol style="list-style-type: none">1. To understand the concept of the resource Management.2. To deeply understand the various types of resources i.e water, land energy etc.3. To understand the role of the judiciary and the role of the government for the Resource management for the environment.
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Course Content		
Unit	Description	Weightage* (%)
1.	Biodiversity and Its Importance 1.1 Meaning and Importance 1.2 Need for protection of biodiversity 1.3 Threat to biodiversity 1.4 Biodiversity and economic valuation 1.5 Biodiversity and Sustainable Development	20%
2.	Laws Regulating Conservation of components of Biodiversity 2.1 Wildlife 2.1.1 Wildlife Protection Act 2.1.2 International Law regulating Wildlife 2.2 Forest 2.2.1 Forest Act 2.2.2 National Forest Policy 2.2.3 International Forest Principles 2.3 Wetlands 2.3.1 Ramsar Convention	20%
3.	Convention on Biological Diversity 3.1 Objective and Principle 3.2 Access and Benefit Sharing 3.2.1 Nagoya Protocol 3.3 Management and Handling of Biotechnology	20%





	3.3.1 Biosafety Protocol	
4.	Biodiversity Act, 2002 4.1 Regulation of Access to Biological Resources 4.2 National Biodiversity Authority Function and Power of National Biodiversity Authority 4.2.1 Approval by the National Biodiversity Authority 4.2.1 State Biodiversity Authority 4.3 Biodiversity Rules, 2004	20%
5.	Biodiversity and Other International Laws 5.1 United Nations Convention on Law of Seas 5.2 Convention on International Trade in Endangered Species 5.3 World Heritage Convention 5.4 Convention on the Conservation of Migratory Species of Wild Animals 5.5 TRIPS Agreement	20%

PSDA (Professional Skill Development Activities)	
❖	Statutes and Judgment Analysis
❖	Preparation of One Research Paper/Research Article
❖	Access to Legal Resources: E-Library, E-Books and E-Database
❖	Project work or the field work for the resource management for the environment
❖	Interaction with the environment protection department of the government.
❖	Visit to National Green Tribunal

Teaching-Learning Methodology	<ul style="list-style-type: none"> • Lecture Method • Power Point Presentation (including audio/video) • Case study • Expert talk
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage (%)
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	20%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	10%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to





1.	To explain the students the concept of resource management.
2.	To understand the various types of the resource management.
3.	To analyse the constitutional provisions for the environment protection.
4.	To identify the various problems related to the resources of environment and for the protection of the environment.

Suggested References:

Sr. No.	References
1.	Reference books: 1. Biodiversity Law and Practice by Yeshwant Shenoy 2. Biodiversity and Conservation: International Perspective, by A. Usha 3. Routledge Handbook of Biodiversity and the Law by Charles R. McMains, B.Ong, Ebook, ISBN 9781315530857 4. An Introduction to the Ramsar Convention on Wetlands by U.N.E.P.
2.	Journal: 1. Journal of Environmental Law 2. Environment Policy and Law Review

On-line Resources

• SCC Online
• Manupatra
• HeinOnline
• Coursera
• Jstor
• Bloomsbury





Master of Laws (Environment & Legal Order Group)
LL.M. (Environment & Legal Order Group) Semester-III

Course Code	PL03ELEN52	Title of the Course	Climate Change & Law
Total Credits of the Course	5	Hours per Week	

Course Objectives:	<p>Pollution hazards bring the worst harm to the environment. Legal measures are attempted to prevent or control various kinds of pollution and their aftermath. The objectives of this course are as follows.</p> <ol style="list-style-type: none">1. To understand the land pollution hazards be presented or controlled effectively by criminal sanctions especially in a developing country like India.2. To understand the water pollution, Air Pollution and the Noise pollution.3. To understand the various laws made for the waste management for the protection of the environment.
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Course Content		
Unit	Description	Weightage* (%)
1.	Basic Understanding of Climate Change 1.1 Science of Climate Change 1.2 Need for Protection of Atmosphere 1.3 Factors responsible for Atmospheric Pollution 1.4 Climate Change and Sustainable Development 1.4.1 Chapter 9 of Agenda 21	20%
2.	Ozone Depletion and Transboundary Air Pollution 2.1 Vienna Convention for the Protection of Ozone Layer 2.2 Montreal Protocol on Substances that Deplete the Ozone Layer 2.3 Transboundary Air Pollution 2.4 Convention on Long-range Transboundary Air Pollution	20%
3.	United Nations Framework Convention on Climate Change 3.1 Evolution of the United Nations Climate Regime 3.2 Framework Convention on Climate Change 3.2.1 Preamble, Objective and Principle 3.2.2 Commitments 3.2.3 Institutions 3.2.4 Implementation and Compliance Mechanism	20%
4.	Post-UNFCCC Efforts 4.1 Kyoto Protocol 4.1.1 Carbon Credits 4.1.2 Clean Development Mechanism 4.1.3 Joint Implementation	20%





	4.2 Paris Agreement	
5.	Climate Change and India's Initiative 5.1 Issues and concerns of India and Climate Change 5.2 National Action Plan on Climate Change\ 5.3 State Action Plan on Climate Change 5.3.1 Gujarat State Action Plan on Climate Change	20%

PSDA (Professional Skill Development Activities)	
❖	Statutes and Judgment Analysis
❖	Preparation of One Research Paper/Research Article
❖	Access to Legal Resources: E-Library, E-Books and E-Database
❖	Book Review
❖	Visit the Tribunal for the environment protection
❖	Visit the hazardous substance Industry
❖	Interaction with environment law expert

Teaching-Learning Methodology	<ul style="list-style-type: none"> • Lecture Method • Power Point Presentation (including audio/video) • Case study • Expert talk
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage (%)
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	20%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	10%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	To explain the students concept of the pollution and its impact.
2.	To analyse the various concepts of pollution like noise, water, Air etc.
3.	To understand the concept of Waste Management & Its practice in India.
4.	To understand the various rules for the waste management.





Suggested References:

Sr. No.	References
1.	Reference books: <ol style="list-style-type: none">1. International Climate Change Law, by Daniel Bodansky, Jutha Brunec & Lavanya Rajamani, Oxford University Press.2. Climate Change : Fro Science to Sustainability; Peake, Stephen Smith Joe, Oxford University Press (2010) New Delhi.3. Climate Crises : Challenges and Option, Raghunandan, D, All India Peoples Science Network, 2008, New Delhi.4. Carbon Sinks and Climate Change : Forests in The Fight Against Global Warming by Colin A.G. Hunt.
2.	Journal: <ol style="list-style-type: none">1. Journal of Environmental Law2. Environment Law and Policy Review

On-line Resources

• SCC Online
• Manupatra
• Hein Online
• Coursera
• Jstor
• Bloomsbury





Master of Laws (Environment & Legal Order Group)
LL.M. (Environment & Legal Order Group) Semester-III

Course Code	PL03ELEN53	Title of the Course	Environment, Technology & Law
Total Credits of the Course	5	Hours per Week	

Course Objectives:	<p>Biological diversity includes all life forms on the earth and signifies a life supporting order, essential for the normal functioning of eco-systems and the Biosphere as a whole. Dependence of human life on biological diversity is thus no doubt essential. Destruction of bio-diversity, especially of the developing countries is a disturbing phenomenon and presents a matter of ethical and legal significance in relation to experimentation on animals and plants. The objectives of this course are as follows:</p> <ol style="list-style-type: none">1. To understand the concept of the Bio-diversity, its principles & need.2. To understand the concept of biodiversity and the legal regulations.3. To understand the concept of the development projects on bio-diversity.4. To understand the Legal framework of Development and Protection of Sanctuaries.
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Course Content		
Unit	Description	Weightage* (%)
1.	Interface between Environment and Technology 1.1 Stockholm Declaration: Emphasis on Science and Technology 1.2 Rio Declaration: Emphasis on Science and Technology 1.3 Agenda 21: Chapter 16 1.4 Technology as a Tool of Sustainable Development	20%
2.	Biotechnology and Environment 2.1 Evolution of Bio-Technology 2.2 Techniques and Applications of Bio-Technology 2.3 Bio-Technology and Sustainable Agriculture 2.4 Intellectual Property Rights aspect of Bio-Technology	20%
3.	Biotechnology and Genetic Resources 3.1 Applications of Bio-Technology on Genetic Resources 3.1.1 Benefits of Applications of Bio-Technology on Genetic Resources 3.2 Applications of Bio-Technology on Plant Genetic Resources 3.2.1 Genetic Engineering Crops 3.2.2 Bio-Technology and Food Security 3.3 Protection of Plant varieties	20%





4.	Technology on Controlling Pollution 4.1 Clean Technologies and Climate Change 4.2 Technologies Controlling Water Pollution 4.3 Technologies Controlling Air Pollution 4.4 Nano Technology and Pollution Prevention	20%
5.	International Instruments regulating Technological Applications on Components of Environment 5.1 UPOV 5.2 CBD 5.3 ITPGRFA 5.4 TRIPS Agreement	20%

PSDA (Professional Skill Development Activities)

❖ Statutes and Judgment Analysis
❖ Preparation of One Research Paper/Research Article
❖ Access to Legal Resources: E-Library, E-Books and E-Database
❖ Book Review
❖ Interactions with the Environment law Experts
❖ Group discussions on the various topics cover under the biological diversity and legal process.

Teaching-Learning Methodology	<ul style="list-style-type: none">• Lecture Method• Power Point Presentation (including audio/video)• Case study• Expert talk
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Evaluation Pattern

Sr. No.	Details of the Evaluation	Weightage (%)
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	20%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	10%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to

1.	To explain the students the Concept, Principles and Need of Bio-diversity.
2.	To understand the concept of Bio-diversity and various Legal Regulations





3.	To understand the concept of Legal framework of Development and Protection of Sanctuaries.
4.	To analyse the various development projects made for the bio –diversity.

Suggested References:

Sr. No.	References
1.	Reference books: 1. William H. Lesser and Robert T. Masson, An Economic Analysis of the Plant Variety Protection Act, 1983 2. Pat Roy Mooney, The Law of the Seed: Another Development and Plant Genetic Resources, Development Dialogue, 1983 3. Iver P. Cooper, Biotechnology and the Law, 1996 4. Francesco Franioni and Tullio Scovazz (Edited) Biotechnology and International Law, (2006), Hart Publishing, Oxford and Protland, Oregon. 5. Francesco Franioni (Edited), Biotechnologies and International Human Rights 2006), Hart Publishing, Oxford and Protland, Oregon 6. Dr. T. Ramakrishan (Edited), Biotechnolgy and Intellectual Property Rights (2003), CIPRA, NLSIU, Bangalore.
2.	Journal: 1. Journal of Environmental Law 2. Environment Policy & Law Review

On-line Resources

•	SCC Online
•	Manupatra
•	HeinOnline
•	Coursera
•	Jstor
•	Bloomsbury

