



SYMBIOSIS LAW SCHOOL, PUNE
CARE | COURAGE | COMPETENCE | COLLABORATION

SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)



Jean Monnet Chair
EU Climate Justice Law, Governance, Management & Policy
(EUC-LAMP)
[Project number: 101048047]

REPORT ON

**DELIVERABLE 1.1: THREE SETS OF TEACHING ACTIVITIES INCLUDING A
CERTIFICATE PROGRAMME HAVING 10 MODULES**

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Introduction

One of the main deliverables under the Jean Monnet Chair on EU Climate Justice Law, Governance, Management and Policy is the organization of the set of teaching units. Under this deliverable the JM Chair Professor Dr. Shashikala Gurpur, Director of Symbiosis Law School, Pune, Symbiosis International (Deemed University) [SIU] initiated the plan of organizing the teaching activities, time tables and session plans and fine tuned the content delivery in the following two courses:

1. EU Environmental Law (Elective Course)
2. Climate Justice, Law, Policy and Governance with focus on EU and Asia (India, China and ASEAN) (Elective Course) [# Please note this course is named as Comparative Climate Justice in the Programme Structures of the Undergraduate and Master Degree Programmes]

Simultaneously, a certificate programme was designed under the Jean Monnet Chair titled “Certificate Programme in European Union Climate Justice Law, Governance, Management and Policy” and was accredited at the University level.

The aforementioned two courses and the Certificate Programme are delivered in the form of teaching activities as a part of the Jean Monnet Chair.

Objective of the Deliverable

The main objective of the deliverable is to plan, organize and deliver the teaching activities in relation to proposed courses and modules of the certificate programme.

The teaching activities aim is to allow students and professionals interested in the field but with no access to this type of specialized content to upgrade their competencies. For two courses that is EU Environmental Law and Comparative Climate Justice, the participants are UG and PG students from Symbiosis Law School, Pune, SIU and for the certificate programme the participants can be students from any discipline as the course is broad and interdisciplinary which is designed and offered under the JM Chair.

The aim is to deliver these niche courses and enhance employability in the following fields: climate research, climate impact assessment, climate change and sustainability, climate risk, climate justice, climate advocacy, climate finance, climate law, renewable resources, climate data analysis, value chain modelling, green product designing, green energy, sustainable financing and natural resource management, climate change modelling, policy and governance.

Planning and Designing the Deliverable

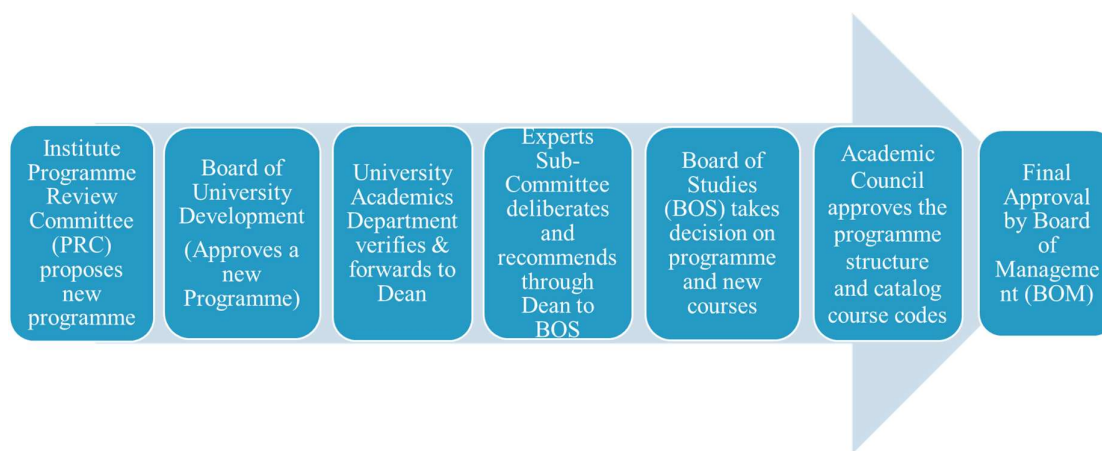
The finalization and fine-tuning of the niche courses in the field of climate change law mentioned earlier were identified in terms of the needs of India and conforming them to address the priorities of the EU.

The courses were planned to be delivered through three main teaching activities including a certificate programme. The total credits per cycle was planned to be total 18 credits as per the

details provided in the later sections of this report. Each credit entails 15 hours of teaching-learning for a student at the University. Thus, a total number of 270 hours of teaching-learning would be done in a year or per cycle. Out of the 270 hours per year, Dr. Shashikala Gurpur, the Chair Professor would engage a total of 113 hours of teaching and the remaining was to be conducted by experienced co-faculties and other expert guests from Europe and India.

Accreditation

The seven stages process of accreditation followed at SIU is depicted through a chart diagram below and then explained in the description.



The courses taught under the Jean Monnet Chair and the certificate programme specially designed under the Jean Monnet Chair has followed the procedure of accreditation followed at SIU.

For accrediting of an educational programme, in this case the online and offline ‘Certificate Programme in European Union Climate Justice Law, Governance, Management and Policy’ has followed the systematic procedure as explained below:

The first stage is the Program Review Committee (PRC) for PG/UG courses which takes place approximately in June / Nov every year. PRC consists of full-time faculty members of the institute who are specialization centre in-charges, 1 representative each from Alumni, Industry, expert academics, Head of the Institute and University representative. The PRC discusses and approves the courses that are proposed by the faculty members under the PG/UG programme at SLS, Pune.

The second stage of the process of accreditation is formal approval through the Board of University Development (BUD). The role of the Board of University Development is to assess the feasibility of starting a new programme or Diploma, Certificate Programme or a centre at SIU. The members of the BUD consider the application made by an institution based on the feasibility of running the programme depending on the market demands, financial feasibility and sustainability.

The third stage involves approval from the Academic Department of the University which verifies the details and forwards the same to the Dean of the Faculty, SIU.

The fourth stage of accreditation is to submit the developed courses to the Sub-Committee of Board of Studies consisting of selected faculty members, external experts, academicians, University representative, Dean of the Faculty who discuss and provide inputs for syllabus enhancement on the basis of the following parameters:

- Alignment of Learning Objectives and Learning Outcomes
- Curriculum Progression
- International and Comparative component

The fifth stage of accreditation is Board of Studies (BoS) which reviews and approves the recommendations received from the PRC and the Sub-Committee. The revised syllabus is uploaded on the University portal and goes to the next level for approval.

The sixth stage towards accreditation is the approval from the Academic Council (AC). The Academic Council is the principal academic body of the University comprising of the Vice Chancellor; Registrar; External Experts; Deans, Directors, Nominated Professors, Associate Professors and Assistant Professors- representing the various faculties and subject to the provisions of the Memorandum of Association and the Rules and Bye-Laws having control over and responsibility for the maintenance of standards of education, teaching and training, inter departmental co-ordination and research etc. The Academic Council reviews the programme structure and catalogue course codes.

The seventh stage is the Board of Management (BOM) where the primary role of the Board of Management is one of governance. The BOM provides direction and oversight for constituent institutes and the University. The final approval for an educational programme and courses is granted by the Board Management.

This entire process from first stage of PRC to the final approval from BOM takes about 8-10 months in the academic year. Thus, online and offline 'Certificate Programme in European Union Climate Justice Law, Governance, Management and Policy' was approved by the Board of Management.

The two courses, EU Environmental Law and Comparative Climate Justice that are catalogued in the university and being taught as teaching components under the Jean Monnet Chair are attached as Annexure I and II respectively in this report. The 'Certificate Programme in European Union Climate Justice Law, Governance, Management and Policy' specially designed and accredited at the Symbiosis International (Deemed University) under the Jean Monnet Chair is attached as Annexure - III of this report.

Teaching Activities carried out in Year 1- Academic Year 2022-2023

Teaching Activity 1 - for Undergraduate Students at Symbiosis Law School Pune across three programmes

a) Bachelor of Law Programme [LL.B.]

- b) Bachelor of Arts and Bachelor of Law (Honours) Programme [B.A. LL.B. (H)] &
 c) Bachelor of Business Administration (Honours) Programme [B.B.A. LL.B. (H)]

Course Name	Programme, Batch & No. of Students	Contact Hours	Faculty name who taught the course
EU Environmental Law (Elective Course)	BALLB (Hons.) BBALLB (Hons.) Batch of 2022-2027 in their Semester 2 were offered this course offered as a Value-Add Course Total Number of Students – 376	30	Dr. Shashikala Gurpur Dr. Sujata Arya Dr. Vivek Nemane Dr. Raj Varma Dr. Rupal Rautdesai Mr. Abhinav Shrivastava
Climate Justice, Law, Policy and Governance with focus on EU and Asia (India, China and ASEAN) (Elective Course) [Named as Comparative Climate Justice in Programme Structure]	B.A. LL.B. (H) / B.B.A LL.B. (H) Batch of 2019-2024 in their Sem 7 – opted as a regular elective course Total Number of Students - 15	30	Dr. Shashikala Gurpur Dr. Dhanaji Jadhav Dr. Sujata Arya Dr. Vivek Nemane

JM Chair Professor Dr. Shashikala Gurpur, engaged in total of 28 sessions in the two courses and the remaining 32 sessions were engaged by experienced co-faculty members from Symbiosis Law School, Pune.

Teaching Activity 2 - for Post-Graduate Students in Symbiosis Law School Pune from the Master of Laws Programme (LL.M.)

Course Name	Programme, Batch & No. of Students	Contact Hours	Faculty name who taught the course
EU Environmental Law (Elective Course)	LL.M. (Specialization - European Union Law and International Law) Batch of 2022-2023 in their Semester 2 were offered this course as a Value-Add Course	30	Dr. Shashikala Gurpur Dr. Sujata Arya Dr. Vivek Nemane Dr. Raj Varma Dr. Rupal Rautdesai Mr. Abhinav Shrivastava

	Total Number of Students - 17		
Climate Justice, Law, Policy and Governance with focus on EU and Asia (India, China and ASEAN) (Elective Course) [Named as Comparative Climate Justice in Programme Structure]	LL.M. (Specialization - European Union Law and International Law) Batch of 2022-2023 in their Semester 2 were offered this course offered as a Value-Add Course Total Number of Students - 17	30	Dr. Shashikala Gurpur Dr. Sujata Arya Dr. Vivek Nemane Dr. Raj Varma Dr. Rupal Rautdesai Mr. Abhinav Shrivastava

For the postgraduate students as well the JM Chair Professor Dr. Shashikala Gurpur, engaged in a total of 28 sessions in the two courses and the remaining 32 sessions were engaged by experienced co-faculty members from Symbiosis Law School, Pune.

Teaching Activity 3 – Online and Offline Certificate Programme in European Union Climate Justice Law, Governance, Management and Policy (Offered to all the 7 faculties of SIU with 30+ institutes and across India to Graduates from any field) (10 credit certificate programme)

The certificate programme was promoted at the University Level through emails to all Directors of Institutes and Deans of various faculty. The certificate programme was also disseminated throughout India through the law teachers’ network, and emails to the heads of various Science, Technology, Management and Law institutes.

Modules in the Certificate Programme	Contact Hours	Faculty/ Guest Faculty name who taught the course
Principles and Foundations of EU Law	15	<u>Faculty from Symbiosis Law School, Pune who taught the course</u> Dr. Shashikala Gurpur
Green philosophy and Ethics (including green lifestyle, food security, precautionary principle, sustainability)	15	
Climate Justice, Law, Policy and Governance with focus on EU and Asia (India, China and ASEAN)	30	Dr. Aparajita Mohanty Dr. Sujata Arya Dr. Rupal Rautdesai
EU and India Energy Law (Including Energy Audit, carbon credits and trading)	15	<u>Faculty from Symbiosis International University from other institutes and research centers who taught the course</u> Dr. Prakash Rao Dr. Yogesh Patil
Clean Air Law in Europe and Asia	15	
Climate Change and Global Sustainability (Including Mitigation, Adaptation, Indigenous People and Resilience, biodiversity)	15	

Green Compliances for Businesses Industries (including green businesses, green markets)	15	Dr. Om Prakash Dr. T. P. Singh Dr. Manikprabhu Dhanorkar
Science, Technology, Innovation and Business Practices relating to climate change	15	<u>Indian Guest Faculty who taught the course</u>
Waste Management Policy and Law (including Hazardous Waste Management)	5	Dr. Sairam Bhat Dr. Saravanan A
Project relating to Climate Change	10	<u>International Guest Faculty who taught the course</u> Dr. Albert Ruda Dr. Dimitrios Parashu Dr. Himangana Gupta

The total number of participants who enrolled for the certificate programme were 39. Dr. Shashikala Gurpur has conducted a total of 57 teaching learning sessions for the certificate programme. Different pedagogical methods were used to deliver the sessions of the certificate programme such as field visits, seminars, case analysis, workshops, group discussions, research conference and research writing.

Teaching Activities carried out in Year 2- Academic Year 2023-2024

Teaching Activity 1 - for Undergraduate Students at Symbiosis Law School Pune across three programmes

- Bachelor of Law Programme [LL.B.]
- Bachelor of Arts and Bachelor of Law (Honours) Programme [B.A. LL.B. (H)] &
- Bachelor of Business Administration (Honours) Programme [B.B.A. LL.B. (H)]

Course Name	Programme, Batch & No. of Students	Contact Hours	Faculty name who taught the course
EU Environmental Law (Elective Course)	BALLB (Hons.) BBALLB (Hons.) Batch of 2023-2028 in their Semester 2 were offered this course as a Value-Add Course Total Number of Students – 349	30	Dr. Shashikala Gurpur Dr. Sujata Arya Mr. Abhinav Shrivastava Mr. Ujal Mukherjee Mr. Virendra Thakur
Climate Justice, Law, Policy and Governance with focus on EU and Asia (India, China and	B.A. LL.B. (H), B.B.A LL.B. (H) and LL.B.	30	Dr. Shashikala Gurpur Dr. Sujata Arya and Dr. Vivek Nemane Mr. Abhinav Shrivastava

ASEAN) (Elective Course) [Named as Comparative Climate Justice in Programme Structure]	Undergraduate students across various batches were allowed to register to this course by choice as a value-add course. Total Number of Students - 49		
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JM Chair Professor Dr. Shashikala Gurpur, engaged in a total of 28 sessions in the two courses conducted for the UG and the remaining 32 sessions were engaged by experienced co-faculty members from Symbiosis Law School, Pune.

Teaching Activity 2 - for Post-Graduate Students in Symbiosis Law School Pune from the Master of Laws Programme (LL.M.)

Course Name	Programme, Batch & No. of Students	Contact Hours	Faculty name who taught the course
EU Environmental Law (Elective Course)	LL.M. (Specialization - European Union Law and International Law) Batch of 2023-2024 in their Semester 2 took this course as a Value-Add Course Total Number of Students - 8	30	Dr. Shashikala Gurpur Dr. Sujata Arya Dr. Vivek Nemané Dr. Raj Varma Dr. Rupal Rautdesai Mr. Abhinav Shrivastava
Climate Justice, Law, Policy and Governance with focus on EU and Asia (India, China and ASEAN) (Elective Course) [Named as Comparative Climate Justice in Programme Structure]	LL.M. (across 8 specializations) Batch of 2023-2024 in their Semester 2 were allowed to register to this course by choice as a value-add course. Total Number of Students - 18	30	Dr. Shashikala Gurpur Dr. Sujata Arya Dr. Vivek Nemané Dr. Raj Varma Dr. Rupal Rautdesai Mr. Abhinav Shrivastava

For the postgraduate students as well the JM Chair Professor Dr. Shashikala Gurpur engaged in total of 28 sessions in the two courses and the remaining 32 sessions were engaged by experienced co-faculty members from Symbiosis Law School, Pune.

Teaching Activity 3 – Online and Offline Certificate Programme in European Union Climate Justice Law, Governance, Management and Policy (Offered to all the 7 faculties of SIU with 30+ institutes and across India to Graduates from any field) (10 credit certificate programme)

The certificate programme was promoted at the University Level through emails to all Directors of Institutes and Deans of various faculty. The certificate programme was also disseminated throughout India through the law teachers' network, emails to the heads of various Science, Technology, Management and Law institutes in India, to the international contacts through email as well as posted the advertisement on the Lawctopus portal for pan India student community.

Modules in the Certificate Programme	Contact Hours	Faculty/ Guest Faculty name who taught the course
Principles and Foundations of EU Law	15	<u>Faculty from Symbiosis Law School, Pune who taught the course</u> Dr. Shashikala Gurpur Dr. Aparajita Mohanty
Green philosophy and Ethics (including green lifestyle, food security, precautionary principle, sustainability)	15	
Climate Justice, Law, Policy and Governance with focus on EU and Asia (India, China and ASEAN)	30	Dr. Sujata Arya Dr. Rupal Rautdesai
EU and India Energy Law (Including Energy Audit, carbon credits and trading)	15	<u>Faculty from Symbiosis International University from other Departments and research centers who taught the course</u> Dr. Prakash Rao Dr. Yogesh Patil Dr. Om Prakash
Clean Air Law in Europe and Asia	15	
Climate Change and Global Sustainability (Including Mitigation, Adaptation, Indigenous People and Resilience, biodiversity)	15	Dr. T. P. Singh Dr. Manikprabhu Dhanorkar
Green Compliances for Businesses Industries (including green businesses, green markets)	15	<u>Indian Guest Faculty who taught the course</u> Dr. Sairam Bhat
Science, Technology, Innovation and Business Practices relating to climate change	15	
Waste Management Policy and Law (including Hazardous Waste Management)	5	<u>International Guest Faculty who taught the course</u> Dr. Albert Ruda
Project relating to Climate Change	10	Dr. Dimitrios Parashu Dr. Himangana Gupta

The total number of participants who enrolled for the certificate programme were 11. Dr. Shashikala Gurpur has conducted a total of 57 teaching learning sessions for the certificate programme. Different pedagogical methods were used to deliver the sessions of the certificate programme such as field visits, seminars, case analysis, workshops, group discussions, research conference and research writing.

Teaching Activities ongoing for the Year 3 - Academic Year 2024-2025

Teaching Activity 1 - for Undergraduate Students at Symbiosis Law School Pune across three programmes

- a) Bachelor of Law Programme [LL.B.]
 - b) Bachelor of Arts and Bachelor of Law (Honours) Programme [B.A. LL.B. (H)] &
 - c) Bachelor of Business Administration (Honours) Programme [B.B.A. LL.B. (H)]
- are planned and ongoing in the following manner

Course Name	Programme, Batch & No. of Students	Contact Hours	Faculty name who will be teaching this course
EU Environmental Law (Elective Course)	LL.B. Batch of 2024-2027 in their Semester 1 are currently taking this course as a Value-Add Course Total Number of Students – 69	30	Dr. Shashikala Gurpur Dr. Sujata Arya Mr. Abhinav Shrivastava
Climate Justice, Law, Policy and Governance with focus on EU and Asia (India, China and ASEAN) (Elective Course) [Named as Comparative Climate Justice in Programme Structure]	LL.B. Batch of 2024-2027 in their Semester 1 are currently taking this course as a Value-Add Course Total Number of Students – 69	30	Dr. Shashikala Gurpur Dr. Sujata Arya Mr. Abhinav Shrivastava

JM Chair Professor Dr. Shashikala Gurpur will engage a total of 28 sessions in the two courses conducted for the LL.B. undergraduate students and the remaining 32 sessions will be engaged by experienced co-faculty members from Symbiosis Law School, Pune.

Teaching Activity 2 - for Post-Graduate Students in Symbiosis Law School Pune from the Master of Laws Programme (LL.M.)

Course Name	Programme, Batch & No. of Students	Contact Hours	Faculty name who will be teaching this course
EU Environmental Law (Elective Course)	LL.M. (Specialization - European Union)	30	Dr. Shashikala Gurpur Dr. Aparajita Mohanty Dr. Sujata Arya Mr. Abhinav Shrivastava

	Law and International Law) Batch of 2024-2025 in their Semester 1 are currently pursuing this as a Value-Add Course Total Number of Students - 9		
Climate Justice, Law, Policy and Governance with focus on EU and Asia (India, China and ASEAN) (Elective Course) [Named as Comparative Climate Justice in Programme Structure]	LL.M. (Specialization - European Union Law and International Law) Batch of 2024-2025 in their Semester 1 are currently pursuing this as a Value-Add Course Total Number of Students - 9	30	Dr. Shashikala Gurpur Dr. Sujata Arya Dr. Vivek Nemane Mr.Ujal Mukherjee

The JM Chair Professor Dr. Shashikala Gurpur will engage a total of 28 sessions in the two courses which are ongoing and the remaining 32 sessions will be engaged by experienced co-faculty members from Symbiosis Law School, Pune.

Teaching Activity 3 – Online and Offline Certificate Programme in European Union Climate Justice Law, Governance, Management and Policy (Offered to all the 7 faculties of SIU with 30+ institutes and across India to Graduates from any field) (10 credit certificate programme)

The certificate programme has recently been advertised and promoted through several channels. At the University Level through emails to all Directors of Institutes and Deans of various faculty. The invite is sent to PhD Scholars of the University. The certificate programme is also disseminated throughout India through the law teachers’ network, emails to the heads of various Science, Technology, Management and Law institutes in India, to the international contacts through emails as well as posted the advertisement on the Lawctopus portal for pan India student community. Also, social media such as Whatsapp Groups have been used to promote and reach out to the different institutions in India.

Modules in the Certificate Programme	Contact Hours	Faculty/ Guest Faculty names who are invited to engage the sessions
Principles and Foundations of EU Law	15	Faculty from Symbiosis Law School, Pune Dr. Shashikala Gurpur Dr. Aparajita Mohanty
Green philosophy and Ethics (including green lifestyle, food security, precautionary principle, sustainability)	15	

Climate Justice, Law, Policy and Governance with focus on EU and Asia (India, China and ASEAN)	30	Dr. Sujata Arya Dr. Rupal Rautdesai
EU and India Energy Law (Including Energy Audit, carbon credits and trading)	15	<u>Faculty from Symbiosis International University from other</u>
Clean Air Law in Europe and Asia	15	<u>Departments and research centers</u>
Climate Change and Global Sustainability (Including Mitigation, Adaptation, Indigenous People and Resilience, biodiversity)	15	Dr. Prakash Rao Dr. Yogesh Patil Dr. Om Prakash Dr. T. P. Singh
Green Compliances for Businesses Industries (including green businesses, green markets)	15	Dr. Manikprabhu Dhanorkar
Science, Technology, Innovation and Business Practices relating to climate change	15	<u>Indian Guest Faculty</u> Dr. Sairam Bhat Dr. Saravanan A Dr. T R Subramanya
Waste Management Policy and Law (including Hazardous Waste Management)	5	<u>International Guest Faculty</u> Dr. Albert Ruda
Project relating to Climate Change	10	Dr. Dimitrios Parashu Dr. Himangana Gupta

The cycle/batch number three of the certificate programme will be delivered from mid-September 2024 onwards. Different pedagogical methods are planned for the delivery of the sessions of the certificate programme such as field visits, seminars, case analysis, workshops, group discussions, research conference, research writing and collaborative online international learning (COIL).

Annexure I - Course on EU Environmental Law



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act 1956)

Re - accredited by NAAC with 'A' Grade

Founder: Prof. Dr. S. B. Mujumdar, M.Sc.,Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)

Sub Committee - Specialization for Curriculum Development

Course Title: EU Environmental Law

Course Code: T1590

Number of Credits: 2

Level: 4/5

Learning Objective(s):

1. To critically examine the meaning, evolution and basic principles governing environmental law in India and EU
2. To interpret the provisions of various treaties, conventions and agreements pertaining to environmental law.
3. To analyse the decisions of the Indian Courts and the European Court of Justice in relation to their application of environmental principles.
4. Formulate and construct an interface of environmental law and policy with business, trade, technology and human rights
5. To appraise and formulate expert opinions and views
6. To create knowledge and produce original research in the form of research papers, Law reform and recommendations

Learning Outcome (s):

Towards the end of the course the student will be able to

- critically analyse legal provisions in context of environmental law in India and EU
- compare and contrast the rationale of environmental decisions in Indian Courts and European Courts
- understand inter relationship between legislations, treaties and agreements and their application in India and EU
- appraise the similarities between the common environmental principles applicable in India and the EU.

- Critique and generate an interface of environmental law and policy with business, trade, technology and human rights
- formulate and construct expert opinions and views
- develop the ability to create knowledge and produce original research in the form of research papers, Law reform and recommendations.

Course Outline

Sr.No.	Topic	No. of Hours
1.	Development of Environmental Law in India and EU: <ol style="list-style-type: none"> i. Ancient India to 21st Century ii. Development of Environmental Law in the EU: iii. The (First) Environmental Action Plan, 1972 to the 21st Century 	2
2.	Important International Conventions/Treaties/Conferences: <ol style="list-style-type: none"> i. The Stockholm Conference ii. The Nairobi Declaration iii. The Rio Declaration iv. Treaty of Maastricht (EU Member States) v. The Convention on Biological Diversity vi. The Convention on Climate Change vii. The Convention on Nuclear Safety viii. Treaty of Amsterdam (EU Member States) ix. Treaty of Lisbon (EU Member States) x. Framework Convention on Climate Change xi. Paris Agreement 	4
3.	Policies and Programs for Environment Protection and Emergency Plans <ol style="list-style-type: none"> i) 'Polluter Pays' Principle ii) Preventive Principal based on Precautionary Principle iii) Precautionary Principle <ul style="list-style-type: none"> • Environmental Liability Directive (EU) • Vellore Citizens' Welfare Forum Case (1996) iv) 'Direct Effect' Principle (EU Member States only) v) Trans-boundary Responsibility vi) Intergenerational Equity vii) Sustainable Development viii) Public Participation and Transparency ix) Principle of Proportionality x) Principle of Equivalence (EU Member States) xi) Principle of Effectiveness (EU Member States) 	4

4.	<p>Indian Constitution and Environment Protection and Emergency Management</p> <p>a) Provisions in the Indian Constitution for Environmental Protection:</p> <ul style="list-style-type: none"> i. Article 21 ii. Article 32 iii. Article 39 iv. Article 42 v. Article 47 vi. Article 48. 48A vii. Article 51A(g) viii. Article 243(g) <p>b) Provisions under TEU and TFEU for Environmental Protection:</p> <ul style="list-style-type: none"> i. Article 3(3), TEU ii. Article 191, (TFEU) iii. Article 192, (TFEU) iv. Article 193, (TFEU) v. Article 5, TEU vi. Article 17, TEU vii. Article 258-267, TFEU <p>c) Landmark Judgements- Supreme Court of India: relating to Polluter Pay principles, absolute liability; intergenerational equity; doctrine of sustainable development; public trust doctrine</p> <ul style="list-style-type: none"> i. Municipal Council. Ratlam v. Virdhichand, 1980 ii. Union Carbide Corp. V. UoI (Bhopal Gas Leak Disaster Case), 1986 iii. Rural Litigation & Entitlement Kendra v. State of U.P., (Dehradun Quarrying Case), 1988 iv. Sushila Saw Mill v. State of Orissa, 1995 v. M.C. Mehta v UoI, (The Oleum Gas Leakage Case), 1987 vi. MC Mehta v UoI, (Ganga Pollution Case), 1988 vii. Indian Council of Enviro-Legal Action v UoI, 1996 viii. Buffalo Traders Welfare Association v. Maneka Gandhi & Others, 1996 ix. M.C. Mehta v UoI & Others, (Taj Mahal Pollution Case), 1997 x. Art of Living, (Yamuna Pollution) Case. 2017 <p>d) Landmark Judgements- European Court of Justice:</p> <ul style="list-style-type: none"> i. European Commission v. Kingdom of Denmark, 1988 	8

	<ul style="list-style-type: none"> ii. Commission of the European Communities v. Kingdom of Spain, 1996 iii. Afton Chemical Limited v. Secretary of State for Transport, 2010 iv. Case C-379/08 and 380/08 (Raffinerie Mediterranee Case), 2010 v. European Commission v. Kingdom of Belgium, 2011 vi. European Commission v. French Republic (2010) vii. Bund für Umwelt und Naturschutz Deutschland, Landesverband NordrheinWestfalen v. Bezirksregierung Arnsberg, 2011 viii. Commission v. United Kingdom, 2011 ix. European Commission v Ireland, 2012 x. Urgenda Case, 2015 and 2018 xi. Antartica Case, 2018 xii. German Federal Administrative Court (judgments BVerwG 7 C 26.16 and BVerwG 7 C 30.17), 2018 xiii. THE QUEEN v. SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS and SECRETARY OF STATE FOR TRANSPORT WELSH MINISTERS, 2018 xiv. Test BioTech eV v European Commission, 2018 xv. Case by ÖKOBÜRO/Justice & Environment Austria, 2018 	
5	<p>Environment Protection Theory</p> <p>a) Important Legislations- India:</p> <ul style="list-style-type: none"> i. The Wildlife (Protection) Act, 1972 ii. The Water (Prevention and Control of Pollution) Act, 1974 iii. The Forest (Conservation) Act, 1980 iv. The Air (Prevention and Control of Pollution) Act, 1981 v. The Hazardous Waste (Management and Handling Rules, 1989 vi. The Public Liability Insurance Act, 1991 vii. The National Environment Tribunal Act, 1995 viii. Noise Pollution (Regulation and Control) Rules, 2000 ix. The Environment (Protection) Act. 2002 <p>b) Important Legislations- European Union-</p> <ul style="list-style-type: none"> i. Directive 2003/35/EC providing for public participation in respect of the drawing up of certain plans and programmes relating to the environment and amending with regard to public participation and access to justice ii. The Access to Environmental Information Directive 	8

	<p>(2003/4/EC).</p> <ul style="list-style-type: none"> iii. The Environmental Liability Directive (2004/35/EC). iv. Directive 2008/99/EC v. Industrial Emissions Directive (2010/75/EU). vi. Environmental Impact Assessment (EIA) Directive (2011/92/EU) , Directives (85/337/EEC) and (96/61/EC) vii. Seveso III Directive (2012/18/EU). viii. Directives 85/337/EEC and 96/61/EC ix. Water Framework Directive 2000/60/EC and Waste Framework Directive 2008/98/EC (amended by Directive 2018/851/EU). x. REACH Regulation xi. The CLP Regulation xii. The Nature 2000/Habitats Directive. 	
6.	<p>a) Implementation of Environmental Policies in India:</p> <ul style="list-style-type: none"> i. National Waste Land Development Board ii. Ministry of Environment & Forests iii. The National Green Tribunal iv. Pollution Control Boards v. ECOMARK Scheme vi. National River Conservation Plan vii. National Afforestation Program viii. National Action Plan to Combat Desertification ix. Grants-in-aid Scheme for Voluntary Agencies <p>b) Implementation of Environmental Policies in the EU:</p> <ul style="list-style-type: none"> i. Environment Assessment Programs ii. IMPEL iii. The IMPEL Review Initiative iv. Neighbourhood Dialogues Project v. The ‘Doing the Right Things’ Initiative vi. Infringement Proceedings, Article 258, TFEU 	4
7.	Self-Learning, Discussions, Simulations, Exercise, Film, Documentary Review etc.	

Pedagogy:

1. Lecture
2. Discussion
3. Self- study
4. Projects
5. Flipped Classrooms

Books/Articles/Research Papers/Websites Recommended:

- Dr. S.C Tripathi, Environmental Law, 6th Ed., 2015
- http://ec.europa.eu/environment/legal/law/pdf/role_nat_courts/Role%20of%20national%20judge.pdf
- Roy E. Cordato, The Polluter Pays Principle: A Proper Guide for Environmental Policy
- http://ec.europa.eu/environment/legal/law/pdf/principles/2%20Polluter%20Pays%20Principle_revised.pdf
- <https://unesdoc.unesco.org/ark:/48223/pf0000139578>
- D. Kumar, Precautionary Principle in Environmental Law, 2017
- C.P Singh, The Precautionary Principle and Environment Protection
- Jan Darpö* and Annika Nilsson, ON THE COMPARISON OF ENVIRONMENTAL LAW
- Mathew Schemmel, The European Court of Justice and the Environmental Protection Policy of the European Community, Boston College International and Comparative Law Review, Vol. 17, Issue 1, (1994)
- V.S. Reddy and V. Ratna Reddy, Assessment of Environmental Policies and Policy Implementation in India, Economic and Political Weekly, Vol. 32, pp. 48-54
- European Commission, <http://ec.europa.eu/environment/legal/law/index.htm>
- Luis. A. Aviles, Sustainable Development and Environmental Legal Protection in the European Union: A Model for Mexican Courts to Follow?, Mexican Law Review, Vol. 6 Issues 2, pp. 251-272
- Treaty on European Union, https://eur-lex.europa.eu/resource.html?uri=cellar:2bf140bf-a3f8-4ab2-b506-fd71826e6da6.0023.02/DOC_1&format=PDF
- Treaty on the Functioning of Europe, https://eur-lex.europa.eu/resource.html?uri=cellar:88f94461-564b-4b75-ae77-c957de8e339d.0006.01/DOC_3&format=PDF
- Suzanne Kingston, Veerle Heyvaert, Aleksandra Cavasoski, “European Environmental Law”, Cambridge University Press, 2017.
- Peter H. Sand, “The Evolution of International Environmental Law”, The Oxford Handbook on International Environmental Law, 2008
- “Global Environmental Governance as Administration: Implications for International Law”, The Oxford Handbook on International Environmental Law, 2008.

- Shibani Ghosh, “Reforming the Liability Regime for Air Pollution in India, Centre for Policy Research”, 2015 available at:
http://www.cprindia.org/system/tdf/working_papers/Shibani%20Ghosh_Reforming%20the%20liability%20regime%20for%20air%20pollution%20in%20India_WPDEC2015.pdf?file=1&type=node&id=5006&force=1
- The Jean Monnet Program, Towards Effective Environmental Regulation: Innovative Approaches in Implementing and Enforcing European Environmental Law and Policy”, available at
<https://www.jeanmonnetprogram.org/archive/papers/01/010501.rtf>
- Geetanjoy Sahu, ‘Implications of Indian Supreme Court’s Innovations for Environmental Jurisprudence’, 4/1 Law, Environment and Development Journal (2008), p. 1, available at <http://www.lead-journal.org/content/08001.pdf>
- https://www.jus.uio.no/english/services/library/treaties/09/9-01/tfeu_cons.xml
- European Law Blog, <http://europeanlawblog.eu/2019/01/09/rumblings-in-robles-round-2-civil-court-orders-dutch-state-to-accelerate-climate-change-mitigation/>
- <http://curia.europa.eu/juris/document/document.jsf?jsessionid=BD57D134EC58D7B37C71604550F9CCF7?text=&docid=207885&pageIndex=0&doclang=EN&mode=lst&dir=&occ=first&part=1&cid=5616395>
- Access to Justice for Greener Europe, <https://www.clientearth.org/important-judgments-for-clean-air-in-germany>
- Access to Justice for Greener Europe, <https://www.clientearth.org/government-loses-third-air-pollution-case-judge-rules-air-pollution-plans-unlawful>
- Access to Justice for Greener Europe, <https://www.clientearth.org/cjeu-rules-against-the-commission-the-health-impacts-of-gmos-can-be-challenged-under-the-aarhus-regulation/>
- Justice and Environment,
http://www.justiceandenvironment.org/news/?no_cache=1&tx_ttnews%5Btt_news%5D=335&cHash=d694dbbf3044a22e3d4027df73ac5b86

Annexure II - Course on Comparative Climate Justice



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A++' Grade | Awarded Category - I by UGC

Founder: Prof. Dr. S. B. Mujumdar, M. Sc., Ph. D. (Awarded Padma Bhushan and Padma Shri by President of India)



Course Name : Comparative Climate Justice
Course Code : T1721
Faculty : Law
Course Credit : 2
Course Level : 4
Sub-Committee (Specialization) : Transnational and Global Legal

Learning Objectives :

1. To gain a comprehensive understanding of the theoretical approaches and ideologies that lie at the core of climate change policies and linkages to SDGs.
2. To understand concepts of climate justice, methods of analysing climate justice problems, policy processes in climate justice, and the application of climate justice policy.
3. To identify key stakeholders who are most vulnerable to the effects of climate change, to analyse intersectional vulnerabilities and deliberate how policies can provide for vulnerable communities
4. To apply and analyze the policies implemented by Asian and EU nations while conceptualizing a roadmap for the future.
5. To create knowledge and produce original research in the field of Climate Justice

Books Recommended :

Book	Author	Publisher
	Narain S., Ghosh P., Saxena N.C., Parikh J. and Soni P. (2009) Climate Change: Perspectives from India, UNDP.	
	Raupach M.R. (2007) Global and Regional Drivers of Accelerating CO2 Emissions, Proceedings of the National Academy of Science of the United States of America, 104(24).	
	Scholte J.A. (2001) Civil Society and Democracy in Global Governance, CSGR Working Paper No-65/01, UK.	
	Anbumozhi V., Breiling M., Pathmarajah S. and Reddy V.R. (2012) Climate Change in Asia and the Pacific: How Can Countries Adapt, Asian Development Bank Institute	
	Elliott L. (2012) Climate Change and Migration in Southeast Asia: Responding to a New Human Security Challenge, S. Rajaratnam School of International Studies	

	Nils Meyer-Ohlendorf , An Effective Governance System for 2030 EU Climate and Energy Policy: Design and Requirements, EcoLogic (2015)	
	Kaul I. (), Governing Global Public Goods in a Multi-Actor World: The Role of the United Nations, Web Ref: http://www.unu.edu/millennium/kaul.pdf	
	Parikh J.K. and Parikh K. (2002) Climate Change: India's Perceptions, Positions, Policies and Possibilities.	OECD
	Niklas Bremberg, EU Foreign And Security Policy On Climate-Related Security Risks.	
	Asian Development Bank, Climate Change, coming soon to a court near you - National Climate Change Legal Frameworks in Asia and the Pacific, Accessed at https://www.adb.org/sites/default/files/publication/659966/national-climate-change-legal-frameworks.pdf (2021)	
	Okereke C. and Bulkeley H. (2007) Conceptualizing Climate Change Governance beyond the International Regime: A Review of Four Theoretical Approaches, Working paper 112	Tyndall Centre for Climate Change Research.
	Meadowcroft J. (2009) Climate Change Governance, Policy Research Working Paper 4941, World Bank.	
	ITTO and FAO, Forest Governance and Climate Change Mitigation, Policy Brief, ITTO and FAO.	
	Richards M. (2003) Poverty Reduction, Equity and Climate Change: Global Governance Synergies or Contradictions, Overseas Development Institute.	
	David Held, et al., The Governance of Climate Change in China (LSE Global Governance Working Paper).	
Climate Change and global Environmental Governance: The Asian Experience. In: Ha H., Dhakal T.N. (eds) Governance Approaches to Mitigation of and Adaptation to Climate Change in Asia. Energy, Climate and the Environment Series. (2013)	Herath G.	Palgrave Macmillan, London.
Climate Change Governance in Asia	Kuei-Tien Chou et al	(Routledge, 2020).
Global Environmental Politics, pp.211-247	Nicholson, S. and Wapner, P.,	Routledge

Handbook of Climate Change and India: Development, Politics and Governance	Navroz Dubash,	(Routledge, 2012).
The Cambridge handbook of Environmental Justice and Sustainable Development, Chapters 3,9,12,18.	Sumudu A. Atapattu,	Cambridge
Adger W.N. (2001) Scales of Governance and Environmental Justice for Adaptation and Mitigation of Climate Change,	Journal of International Development	
Adger W.N. (2003) Social Capital, Collective Action and Adaptation to Climate Change,	Economic Geography	
Barnett J. (2007) The Geopolitics of Climate Change	Geography Compass,	
Betsill M. M. and Bulkeley H. (2004) Transnational Networks and Global Environmental Governance: The Cities for Climate Protection Program	International Studies Quarterly,	
Climate Change Governance in Chinese Cities	Qianqing Ming,	(Routledge, 2015).
Climate Change Litigation: Global Perspectives (2021)	Ivano Alogna, Christine Bakker, and Jean-Pierre Gauci,	Brill
Fisher D.R. (2006) Understanding the U.S. Position on Climate Change,	Sociological Forum	
Handbook of Climate Justice (1st edition)	Tahseen Jafry (2019)	Routledge
Handbook of Environmental Justice and Sustainable Development,	Atapatty et.al, (2021)	The Cambridge
Hervey F. and Held D. (2009) Democracy, Climate Change and Global Governance,	Policy Network Paper, London.	
Jonas J. Schoenefeld & Andrew J. Jordan (2020) Towards harder soft governance? Monitoring climate policy in the EU,	Journal of Environmental Policy & Planning,	
Levy D.L. and Kolk A. (2002) Strategic Responses to Global Climate Change: Conflicting Pressures on Multinationals in the Oil Industry,	Business and Politics.	
Lian, Koh Kheng, and Lovleen Bhullar. Governance on Adaptation to Climate Change in the Asean Region.	Carbon & Climate Law Review,	
O'Brien K.L. and Leichenko R.M. (2003) Winners and Losers in the Context of Global Change,	Annals of the Association of American Geographers,	
O'Brien K.L. and Leichenko R.M. (2000) Double Exposure: Assessing the Impacts of Climate Change within the Context of Economic Globalization,	Global Environmental Change,	
Pielke Jr. R.A. and Sarewitz D. (2005) Bringing Society Back into the Climate Debate,	Population and Environment,	
Stern N. (2006) What is Economics of Climate Change,	World Economics,	
The European Union and the Politics of Multi-Level Climate Governance. In: Compston H., Bailey I. (eds) Turning Down the Heat. (2008)	Damro C., Mackenzie D.	Palgrave Macmillan, London.

Course Outline :

Sr. No.	Topic	Actual Teaching Hours	Contact Hours Equivalence
1	Introduction to concepts and perspectives	5	5

	<p>1.1 Introduction to the various approaches to Climate Justice: Rational Choice, New-institutional Economics, Neo-liberal ideologies, Legal-anthropology, Legal Pluralism 1.2 Reasoning behind administrative aims towards climate change mitigation and linkages to sustainability goals (sustainability, externalities, global commons 1.3 Ecofeminism and political ecology 1.4 Moving from environmental justice to climate justice 1.5 Principles of Climate justice: Inter-generational and intra-generational Equity, Precautionary principle, Polluter pays principle, Beneficiary Pays Principle, Ability to Pay Principle, Common but Differentiated Responsibility 1.6 Climate Justice Management: Establishment of Monitoring Systems and Accountability Mechanisms, Isolationism and Integrationism</p>		
2	<p>Mitigation of risks faced by vulnerable stakeholders</p> <p>2.1 Communities affected by climate change and their relationship with the State: Case Study- EU and Asia 2.2 Race, Class, Gender, Geopolitical Differences, Migration: Case Study- EU and Asia 2.3 Nature and impact of social capital in the context of climate change 2.4 Role of Public-Private Partnerships in Mitigation of Climate Change 2.5 Role of civil society in mitigating the risks faced by vulnerable stakeholders with respect to climate change including biodiversity</p>	4	4
3	<p>International approaches to climate change governance</p> <p>3.1 Impact of globalization on climate change and governance 3.2 Colonialism"s effects and Post-colonial developments regarding Climate Justice, governance and policy 3.3 International Law: Basic Principles, and the years leading up to the UN Framework Convention on Climate Change (UNFCCC) International Law: the UNFCCC; Kyoto Protocol and the Paris Agreement 3.4 Intersection of international trade, human rights and climate change. 3.5 Analysis of landmark judicial decisions and arbitral awards. 3.6 Future Litigation Trends as revealed by National Policies and Climate Change Laws. 3.7 Climate Change and Armed Conflict 3.8 Climate Change induced Migration</p>	4	4
4	<p>Climate change policy debates: The International Experience</p> <p>4.1 Constitutional Rights regarding climate change and protection in Asia (India, China, ASEAN, SAARC) 4.2 Right to Clean Air: Asian and International perspectives; Trail Smelter Case to Kishenganga Case 4.3 Right to Water: Asian and International perspectives 4.4 Impact of centrally and locally administered action plans 4.5 Market implications of climate change policies 4.6 Measures taken by sectors of the economy 4.7 Climate solutions: Analysis of market based solutions to achieve Climate Justice 4.8 The role of public interest litigation in realizing environmental justice in India, China, ASEAN, SAARC 4.9 India's pre-existing Legal and Policy Framework 4.10 Issues relating to Food Production and Security, Transportation, Urban Planning and Energy 4.11 Intersectional role of Gender in Climate Change and Disaster Risk Reduction (Analysis of Nepal's 2015 Earthquake) 4.12 Climate Change Policies and Sustainable Development Goals 4.13 Decent quality of work in accordance with Siles 4 4.14 Mitigation or Litigation: India's approach 4.15 National policies vis-a-vis foundational values: Resolving disputes between competing interest groups. 4.16 Green jobs in India according to biannual report 4.17 Case study of Maharashtra and Karnataka thermal projects 4.18 Impact of ex post facto clearance of EIA on environment</p>	7	7
5	<p>Climate change policy debates: The European Union Experience</p> <p>5.1 Critical analysis of plans administered by EU nations in relation to climate change 5.2 EU's existing law and policy framework and European Green Deal 5.3 EU and Member States" policy to combat climate change 5.4 Study of landmark cases from EU and Member State jurisdictions 5.5 Economic implications of nationally administered plans 5.6 Comparative policy analysis on environmental justice: EU, India, China, ASEAN 5.7 Role of civil society in climate change policy debates in EU</p>	7	7

6	Role of Non- State Actors: Role of The Media, Civil Society and Climate Justice 6.1 Media Narratives and Climate Justice: Trend Stories, News Analysis, and Commentary 6.2 Story Angles, Frames, and Visuals 6.3 Climate Communication Challenges & Strategies 6.4 Impact of Social media on climate justice 6.5 Role of the civil society in upholding climate justice	3	3
Total		30	30

Pre Requisites :

NA

Evaluation :

case studies
Presentation
Quiz
Seminar
Viva
Drafting
Learning logs
Computer based assessment
Assignment
Project
Tutorial
Cases and Open Problems

Pedagogy :

Lecture
Discussion
Self-study
Projects

Expert :

Prof (Dr.) Shashikala Gurpur, Dean, Faculty of Law, SIU, Director, SLS, Pune, SLS Pune, SIU

Annexure III - Certificate Programme Accredited under JM Chair



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act 1956)

Re - accredited by NAAC with 'A' Grade

Founder: Prof. Dr. S. B. Mujumdar, M.Sc.,Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)



(Established under section 3 of the UGC Act 1956, by notification No.F.9-12/2001-U3 Government of India)

Accredited by NAAC with 'A' Grade

Founder: Prof. Dr. S. B. Mujumdar, M.Sc.,Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)

Certificate Programme in European Union Climate Justice Law, Governance, Management and Policy

Sr. No.	Modules	Contact Hours
1.	1.1. Tracing the process of integration through Treaties and norm-building 1.2. The EU internal market 1.2.1. Free movement of goods, services, capital and persons 1.2.2. Principles of achieving internal market 1.2.2.1. Principle of Conferral 1.2.2.2. Exclusive and shared competences 1.2.2.3. Principle of mutual recognition 1.2.2.4. Principle of subsidiarity 1.3. European Union Instruments and Competence 1.3.1. Regulations, Directives, Decisions, Inter-Institutional Agreements, Recommendation, ECJ & ECHR decisions, Opinions and Soft Laws 1.3.2. Competence- Exclusive, shared, supporting and complementarity 1.4. European Union & Human Rights 1.4.1. European Convention on Human Rights (ECHR) 1.4.2. EU & Fundamental Rights 1.4.3. European Court of Human Rights (ECtHR) 1.4.4. European Court of Justice (ECJ)	15
2.	Green philosophy and Ethics (including green lifestyle, food security, precautionary principle, sustainability) 2.1. Green Philosophy and Ethics 2.1.1. Anthropocentrism 2.1.2. Animal Rights 2.1.3. Biocentrism 2.1.4. Ecocentrism 2.1.5. Eco-feminism 2.1.6. Conservationism	15

	<p>2.2. Concept Building</p> <p>2.2.1. Concept of REDD+</p> <p>2.2.2. Sustainable Development</p> <p>2.2.3. Public Trust Doctrine</p> <p>2.2.4. Intergenerational Equity/ Intra-generational equity</p> <p>2.2.5. Common but differentiated Responsibilities</p> <p>2.2.6. Polluter Pays Principle</p> <p>2.2.7. Precautionary Principle</p> <p>2.2.8. Environmental Impact Assessment (EIA)</p> <p>2.2.9. Right to Participation (with reference to the Aarhus Convention (1998))</p> <p>2.2.10. Introduction to Climate Change</p> <p>2.2.11. Climate Change Science for Policy</p>	
3.	<p>Climate Justice, Law, Policy and Governance with focus on EU and Asia (India, China and ASEAN)</p> <p>3.1. International Climate Change Law, Policy & Governance</p> <p>3.1.1. United Nations Conference on the Human Environment (1972)</p> <p>3.1.2. Brundtland Report: Our Common Future (1987)</p> <p>3.1.3. Rio Declaration on Environment and Development 1992</p> <p>3.1.4. UN Framework Convention on Climate Change (1992)</p> <p>3.1.5. Kyoto Protocol (1997)</p> <p>3.1.6. Paris Agreement (2015)</p> <p>3.2. Climate Change Litigation: Practice and Theory</p> <p>3.2.1. Sectoral studies: coal, financial services and corporate accountability</p> <p>3.2.2. Jurisdictional analysis: EU, India and China</p> <p>3.2.3. Participation in Policy and Planning</p> <p>3.3. Analysis of landmark judicial decisions and arbitral awards.</p> <p>3.3.1. <i>Urgenda Climate Case</i> (2019)</p> <p>3.3.2. <i>Milieudefensie v. Shell</i> (2021)</p> <p>3.3.3. <i>Ridhima Pandey v. Union of India</i> (2019)</p> <p>3.3.4. <i>Neubauer, et al. v. Germany</i> (2020)</p> <p>3.4. Future Litigation Trends as revealed by National Policies and Climate Change Laws.</p> <p>3.5. Climate Change and Armed Conflict</p> <p>3.6. Climate Change induced Migration</p> <p>3.7. Constitutional Rights & Legal Rights regarding climate change and protection in Asia (India, China, ASEAN, SAARC)</p> <p>3.8. Climate change policy debates: The European Union Experience</p> <p>3.8.1. EU's existing law and policy framework and European Green Deal</p> <p>3.8.2. EU and Member States policy to combat climate change</p> <p>3.8.3. Study of landmark cases from EU and Member State jurisdictions</p> <p>3.9. Role of Non- State Actors: The Media, Civil Society & NGOs</p>	15
4.	<p>EU and India Energy Law (Including Energy Audit, carbon credits and trading)</p> <p>4.1. International Energy Law</p> <p>4.1.1. Institutions</p> <p>4.1.2. Actors</p> <p>4.1.3. Legal Instruments</p> <p>4.2. EU Energy Law</p> <p>4.2.1. Sector Specific Regulation of the Energy Market</p>	15

	<p>4.2.2. State Aid in the Energy Sector</p> <p>4.2.3. Application of EU Antitrust laws to Energy Markets</p> <p>4.2.4. EU Electricity Market</p> <p>4.2.5. Treaty establishing European Atomic Energy Community (Euratom)</p> <p>4.2.6. Case Studies:</p> <p>i) <i>Duarte Agostinho and Others v. Portugal (2020)</i></p> <p>ii) <i>Ålands Vindkraft AB Case (2014)</i></p> <p>iii) <i>Client Earth v Poland (2021)</i></p> <p>4.3. Indian Energy Law</p> <p>4.3.1. The Energy Conservation Act, 2001</p> <p>4.3.2. The Electricity Act, 2003</p> <p>4.3.3. National Mission on Electric Mobility</p> <p>4.3.4. The Petroleum and Natural Gas Regulatory Board Act, 2006</p> <p>4.3.5. Mines and Minerals (Development and Regulation) Act, 1957</p> <p>4.3.6. Government led Organizations</p> <p>4.3.6.1. National Thermal Power Corporation; North Eastern Electric Power Cooperation; National Hydroelectric Power Corporation; Power Grid Corporation of India; Power Finance Corporation; PTC India; National Smart Grid Mission</p> <p>4.4. Case Studies:</p> <p>i) <i>Tamil Nadu Electricity Board and Anr. v. Status Spinning Mills Ltd. and Anr AIR 2008 SC 2838</i></p> <p>ii) <i>G. Sundarrajan v. Union of India and Ors. (2013) 6 SCC 620</i></p> <p>iii) <i>People 's Union for Civil Liberties and Anr. v. Union of India and Ors. AIR 2004 SC 1442</i></p> <p>iv) <i>Tehri Bandh Virodhi Sangharsh Samiti and Ors. v. The State of UP and Ors. JT 1990 (4) SC 519</i></p> <p>v) <i>Dahanu Taluka Environment Protection Group and another v. Bombay Suburban Electricity Supply Company Limited and Ors. (1991)2 SCC 539</i></p>	
5.	<p>Clean Air Law in Europe and Asia</p> <p>5.1. Europe</p> <p>5.1.1. Clean Air Act: Overview and EPA Authority to Regulate Greenhouse Gas Emissions</p> <p>5.1.2. Climate Change and the Clean Air Act - PSD Permits, NSPS Standards, and Netting/Offsets</p> <p>5.2. Asia</p> <p>5.2.1. The UNEP Asia Pacific Clean Air Partnership, 2015</p> <p>5.2.2. The Acid Deposition Monitoring Network in East Asia, 1998</p> <p>5.2.3. (India) The Air (Prevention and Control of Pollution) Act, 1981</p> <p>5.2.3.1. Powers and Functions of CPCB & SPCB</p> <p>5.2.4. (China) The Air Pollution Control Act, 1987</p> <p>5.2.4.1. 2015 Amendment</p>	15
6.	<p>Climate Change and Global Sustainability (Including Mitigation, Adaptation, Indigenous People and Resilience, biodiversity)</p> <p>6.1. Links between Sustainable Development, Climate Change and Bio-diversity</p> <p>6.1.1. Objectives of Sustainable Development</p> <p>6.1.2. Risks and Threats Posed by Climate Change</p>	15

	<ul style="list-style-type: none"> 6.1.3. Key Reasons for Concern about Climate Change Effects on Sustainable Development 6.1.4. Linkage between climate change and biodiversity 6.2. Mitigation and its relevance to sustainable development <ul style="list-style-type: none"> 6.2.1. Mitigation Strategies 6.2.2. Necessity of building ‘mitigative capacity’ 6.3. Strategies for climate change resilience & adaptation <ul style="list-style-type: none"> 6.3.1. Challenges and barriers to climate change resilience & adaptation 6.4. Law and policy to strengthen resilience & adaptation capacities of nations 6.5. Role of indigenous people in addressing climate change and protecting biodiversity 	
7.	<p>Green Compliances for Businesses Industries (including green businesses, green markets)</p> <ul style="list-style-type: none"> 7.1. Policies to promote green businesses 7.2. Market-based instruments for green compliance <ul style="list-style-type: none"> 7.2.1. Types of market-based instruments 7.2.2. Advantages of such instruments 7.2.3. Tradeoffs of such instruments 7.2.4. Challenges 7.3. Green Compliance, ethics, and sustainable growth 	15
8.	<p>Science, Technology, Innovation and Business Practices relating to climate change</p> <ul style="list-style-type: none"> 8.1. Environmental Policy and Technological Innovation <ul style="list-style-type: none"> 8.1.1. Role of technology in tackling climate change 8.1.2. Policy measures to be adopted 8.2. Modes of innovation in technology 8.3. Challenges and policy problems 	10
9.	<p>Waste Management Policy and Law (including Hazardous Waste Management)</p> <ul style="list-style-type: none"> 9.1. Concepts and policies of waste management <ul style="list-style-type: none"> 9.1.1. General concepts 9.1.2. Policies 9.1.3. Waste management hierarchy 9.1.4. Aims & objectives of waste management policies 9.2. Overview of the process of waste management <ul style="list-style-type: none"> 9.2.1. Introduction to waste management? 9.2.2. Importance of developing waste management strategies 9.2.3. Different types of waste management strategies 9.2.4. Disposition of different types of waste (hazardous waste, e-waste, etc.) 9.2.5. Contributions of waste management policies to sustainable development 9.3. Implementation of waste management strategies <ul style="list-style-type: none"> 9.3.1. Law and policy at the national level 9.3.2. International policy regime 	15
10.	Project relating to Climate Change	25

Books Recommended:

- Sustainable Development Goals: Their Impacts on Forests and People, Cambridge University Press, (Pia Katila & Carol J. Pierce Colfer eds), 2020
- Routledge Handbook of International Environmental Law, Routledge, Eds. Shawkat Alam, Jahid Hossain Bhuiyan, Tareq M.R. Chowdhury, Erika J. Techera (2013)
- Wicked Environmental Problems: Managing Uncertainty and Conflict, Springer, Peter J. Balint, Ronald E. Stewart, Anand Desai, Lawrence C. Walters (2011)
- Essential EU Climate Law, eds. Edwin Woerdman, Martha Roggenkamp and Marijn Holwerda Edward Elgar Publishing (2015)
- Global Environmental Governance Law and Regulation for the 21st Century, Louis J. Kotzé, Edward Elgar Publishing (2012)

Journal articles:

- Antoine Vauchez, *EU law, down to earth*, 1 European Law Open 148, (2022)
- Carol Harlow, *The EU and law in context: the context*, 1 European Law Open 209, (2022)
- Franz C. Mayer, *The EU in 2030: An Anticipated Look Back at the 2020s*, 21 German Law Journal 63, (2020)
- Raymond Cléménçon, *Is sustainable development bad for global biodiversity conservation?* 16 Global Sustainability 1, (2021)
- Ioanna Hadjiyianni, *The CJEU as the gatekeeper of International Law: The Cases of WTO Law and the Aarhus Convention*, 70 ICLQ 895, (2021)
- Jacqueline Peel & Hari M. Osofsky, *A Rights Turn in Climate Change Litigation?* 7 Transnational Environmental Law 37, (2018)
- Lennart Wegener, *Can the Paris Agreement Help Climate Change Litigation and Vice Versa?* 9 Transnational Environmental Law 17, (2020)
- Xiangbai He, *Legal and Policy Pathways of Climate Change Adaptation: Comparative Analysis of the Adaptation Practices in the United States, Australia and China*, 7 Transnational Environmental Law 347, (2018)
- Stefan Borozan et al., *Progress of the electricity sectors in South East Europe: Challenges and opportunities in achieving compliance with EU energy policy*, 7 Energy Reports 8730, (2021)
- Lana Ollier et al., *The European 2030 climate and energy package: do domestic strategy adaptations precede EU policy change?* 55 Policy Sciences 161, (2022)
- Amy L. Stein, *Artificial Intelligence and Climate Change*, 37 YALE J. REG. 890 (2020)
- Mahak Mittal et al., *Plastic accumulation during COVID-19: call for another pandemic; bioplastic a step towards this challenge?* 29 Envi. Sci. & Poll. Res 11039, (2022)
- Trishla Dubey, *Waste Toxicity and New Circular Economy: National and International Legal Perspectives*, 6 INDIAN J.L. & PUB. POL'y 1 (2020)
- Maksym Kutsevych, *Sustainable Approaches to Waste Management: Regulatory and Financial Instruments*, 9 European Journal of Sustainable Development 163, (2020)
- Elizabeth Ferris, *Climate Change, Migration, Law and Global Governance*, 44 N.C. J. INT'L L. 427 (2019)