

भारतीय प्रौद्योगिकी संस्थान दिल्ली INDIAN INSTITUTE OF TECHNOLOGY DELHI

10

Master's in Public Policy in Science, Technology, Innovation and Development | MPP Placement Brochure Batch 2021 - 23

Indian Institute of Technology | IIT Delhi

Indian Institute of Technology Delhi is one of the 23 IITs created to be Centres of Excellence for training, research and development in science, engineering and technology in India.

Established as College of Engineering in 1961, the Institute was later declared as an Institution of National Importance under the "Institutes of Technology (Amendment) Act, 1963" and was renamed as "Indian Institute of Technology Delhi". It was then accorded the status of a Deemed University with powers to decide its own academic policy, to conduct its own examinations, and to award its own degrees.

Since its inception, over 48000 have graduated from IIT Delhi in various disciplines including Engineering, Physical Sciences, Management and Humanities & Social Sciences. Of these, nearly 5070 received Ph.D. degrees. The number of students who graduated with B.Tech. degree is over 15738. The rest obtained Master's Degree in Engineering, Sciences and Business Administration. These alumni today work as scientists, technologists, business managers and entrepreneurs. There are several alumni who have moved away from their original disciplines and have taken to administrative services, active politics or are with NGOs. In doing so, they have contributed significantly to building of this nation, and to industrialisation around the world.

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From the Desk



Prof. Ambuj D Sagar Deputy Director | IIT Delhi Founding Head, School of Public Policy

The School of Public Policy at IIT Delhi was founded 4 years ago with a vision of establishing an academic centre of excellence for world-class policy research and education, with a particular emphasis on science, technology, innovation, and development that will contribute positively and significantly to national and global policy processes on key issues of importance to India and other countries. In this short time, we have come a long way: we have been able to bring on board top-quality faculty with wide-ranging research interests, built exciting and fruitful academic partnerships within and outside the country, engaged with policy-makers domestically and globally.

But what makes me the proudest is the establishment of our Master of Public Policy (MPP) program. Our MPP was developed with much thought and deliberation, drawing on experiences with such programs across the world, and initiated in AY 2020-21. The curriculum is designed, of course, to provide students a strong foundation in concepts of public policy, exposure to historical and contemporary public policy issues, and policy tools and analytical skills to engage with such issues, with a strong focus on science, technology, and innovation. But it does more than that - it allows students to be thoughtful analysts, critical thinkers, cogent communicators, and team players. Thus, I believe that the graduates from this program have the appropriate key attributes to engaging with a diversity of issues that are being faced (or will be faced in the coming years) not just by decision-makers in the policy domain but also in academia, civil society, and business. I have no doubt that our MPP graduates will make as much of a mark on the world as IIT students historically have and, by helping meet the challenges facing society, will make this world a better place for our children and theirs.



The School Of Public Policy

The School of Public Policy at IIT Delhi was established in 2018 to engage in questions at the intersection of Science, Technology, Innovation (STI) and Development with the aim of producing cutting-edge research, training the next generation of policy professionals, and contributing to the improvement of policy processes in India and beyond. The Master's in Public Policy (MPP) in STI and Development is a two-year full-time program offered by the School of Public Policy at IIT Delhi. It aims to train professionals who can contribute to the development of a more robust and societally relevant STI policy ecosystem nationally and globally through direct engagement as practitioners or academics in the policy space or through engagement with complementary spaces such as civil society and industry. The objective of the program is to provide rigorous interdisciplinary training to students from diverse backgrounds and to transform them into top-quality policy professionals and policy scholars.

From the Desk



Prof. Sanjiva Prasad Head, School of Public Policy

Many of India's challenges today have a major Science, Technology, and Innovation (STI) element, underpinning economic growth through innovation, enhancing energy access and delivery through renewable technologies, improving health outcomes through public health infrastructure and new vaccines, or meeting the challenges of food security, livelihoods, and sustainability through improved agricultural practices and technologies. Extant policy thinking places an inordinate focus on socio-economic dimensions, with insufficient importance given to STI. This has resulted in a relative vacuum in the policy analytical space of public policy professionals who can think critically and analyse STI policy problems in depth.

The School of Public Policy trains public policy scholars and hones them into experts in world-class research on a range of topics related to developmental goals in a changing global and domestic context. Our research spans areas such as Agriculture, Food and Water, Energy and Environment, Digital Technologies, Innovation Systems, Industry and Economy, Higher Education, and Sustainable Habitats. We build local capacity for policy analysis and implementation through the training of the next generation of scholars and practitioners.

The School of Public Policy offers the Master's in Public Policy (MPP) program to provide rigorous interdisciplinary training to students from diverse backgrounds and to transform them into top-quality policy professionals and policy scholars. The curriculum is positioned within historical and contemporary policy contexts that facilitate a deeper understanding not just of the concepts and lexicon, but also the methodologies and the philosophies of public policy, entrenched with an Indian flavour. In the process, we contribute to an increasing ensemble of thinkers and practitioners with strong disciplinary moorings, skilled in navigating a capricious public policy ecosystem, with a much-needed focus on decision-making processes at the local, national, and international levels.



Master's in Public Policy in Science, Technology, Innovation and Development | MPP

The School of Public Policy at IIT Delhi tackles issues at the nexus of Science, Technology, Innovation (STI), and Sustainable Development with the goal of creating ground-breaking research and engaging with high-level policymakers on Indian policy needs and implementation strategies. The School also seeks to increase social impact by training the next generation of scholars, thinkers and practitioners, and has started a 2-year Master's in Public Policy (MPP) program in Science, Technology, Innovation and Development to meet this objective. The program offers electives that cover important areas such as Energy and Infrastructure Finance, Causal Inference and Impact Assessment, Modelling Complex Adaptive Systems for Policy Analysis, Governance Challenges in Energy Systems in Transition and much more.

Faculty Of SPP | IIT Delhi



Dr. Ambuj Sagar Professor

- BTech, Mechanical Engineering (IIT Delhi)
- MS, Aerospace Engineering MS, Materials Science,
- PhD in Polymer Science,
- MS, Technology and Policy (MIT, Massachusetts)

Detailed Profile



Dr. Upasna Sharma Associate Professor

- M. Phil (IIT Bombay, India) PhD (IIT Bombay, India)
- Post-doc (International Institute for Applied Systems (IIASA), Austria)

Detailed Profile



Dr. Surajit Chakravarty Associate Professor

- Bachelor of Planning (SPA, Delhi)
- Master of Urban Planning (University of Illinois)
- PhD in Policy, Planning and Development (University of Southern California

Detailed Profile



Dr. Kaveri K. lychettira Assistant Professor

- BE, Electrical and Electronics
- (RV College of Engineering)
- MSc Engineering and Policy Analysis (Delft University of Technology)
- PhD (Faculty of Technology, Policy, and Management, Delft University of Technology)

Detailed Profile



Prof. Sanjay Mitra Professor of Practice

- BSc Physics (Delhi University)
- MA Economics
- Master of Public Administration (Harvard University)
- Former Defence Secretary, Govt of India
- Former Secretary, Ministry of Road Transport and Highways,
- Chief Secretary, Govt of West

Tetailed Profile



Dr. Nandana Sengupta

Assistant Professor

- BSc Physics (St Stephen's College, Delhi University)
- MSc Development Economics (IGIDR)
- PhD Economics (Carnegie Mellon University)

Detailed Profile

Faculty Of SPP | IIT Delhi



Dr. Soutrik Basu Assistant Professor

- B. Sc (Allahabad Agricultural Institute)
- MSc, (Wageningen University & Research)
- PhD (Wageningen School of Social Sciences (WASS), Wageningen University, the Netherlands)

Detailed Profile



Dr. Abhishek Malhotra Assistant Professor

 BTech in Mechanical Engineering (IIT, Delhi)

MSc in Energy Science and Technology (ETH Zurich)

 Doctor of Science (Department of Humanities, Social and Political Sciences, ETH Zurich)

(<u>Petailed Profile</u>



Dr. Debananda Misra

Assistant Professor

- BTech in Manufacturing Science and Engineering (IIT, Kharagpur)
- MS (University of California, Berkeley)
- MBA (University of Oxford)
- Doctorate in Education (University College London)

Tetailed Profile



Dr. Rohit Chandra Assistant Professor

- BSE (University of Pennsylvania)
- PhD in Public Policy (Harvard Kennedy School)



Dr. Tiesta Thakur Assistant Professor

- BA (Hons) (Jesus & Mary College, Delhi University)
- MSc (IGIDR)
- PhD (University of Minnesota)



Dr. Rathin Biswas Assistant Professor

- B. Tech (University of Kalyani),
- M. Tech (Jadavpur University)
- Ph.D. (IIT Bombay, India)

(<u>Jetailed Profile</u>

Detailed Profile

Detailed Profile

India is faced with a number of significant existing or emerging societal challenges – economic development, provision of health services, environmental protection, food security – that are key to its future. Many of these challenges, if not all, have a major science, technology and innovation (STI) element, whether it is underpinning economic growth through innovation, enhancing energy access and delivery through renewable technologies, improving health outcomes through public health infrastructure and new vaccines, or meeting the challenges of food security, livelihoods, and sustainability through improved agricultural practices and technologies.

While India does have some policy research capacity in academic and other institutions, the predominant focus is on social and economic dimensions, whereas policy analysis on science and technology dimensions has remained relatively underdeveloped (at least in relation to the need). STI policy analysis, as exists in India today, remains relatively underserved in many pressing areas of concern.

Therefore, in the Indian context (as in most other developing countries), such policy analytical expertise is much needed, given the enormous breadth of issues facing policy makers. It is also particularly important to locate such analytical activities in academic institutions to enhance independent research capacity, engage students on such issues, and to develop a cadre of young policy analysts and practitioners with strong disciplinary moorings but with the ability to think broadly.

The establishment of a major STI-oriented policy program at IIT Delhi as a School of Public Policy (SPP) - the first of its kind in India - aims to add significantly to policy-analytical capabilities in the country, with a special, and much-needed, focus on issues with a scientific and technical content, and couple this work to decision-making processes at the local, national, and international levels.

The School also strengthens IIT Delhi's position as a uniquely impactful institution in the country and enhances the education of its students, its research and outreach activities, as well as emerging programs such as those involving innovation and entrepreneurship.

Curriculum | 2 years

Sem 1	Introduction to Public Policy and STI Introduction to STI policy theories and frameworks				
	STI and Sustainable Development				
	Theories and stakeholders in STI policy processes: Emerging key sectors in India				
	Statistics for Public Policy Probability, statistics, and correlation				
	Principles of Economics for Public Policy Introduction to Economics and Welfare models				
Sem 2	Public Institutions in India: Theory and Practice Case study method of studying public institutions in India To als for Palian to alwain				
	Tools for Policy Analysis Contemporary and novel tools employed in the policy process				
	Program Elective 1				
	Program Elective 2				
Sem 3	Research Methods for Public Policy				
	Methods to conduct qualitative and quantitative research				
	Program Elective 3				
	Open Elective 1				
	Policy Exercise/ Thesis				
	Start of the Thesis Proposal				
Sem 4	Open Elective 2				
	Master's Thesis				
	Thesis on one of the core areas of the students				
List of Pro	gram Electives Causal Inference and Impact Assessment				
•	y Reforms in the Renewables Era Managing the Energy Transition				
	g Complex Adaptive Systems for Policy				
	nd Infrastructure Finance: A Public • Perspectives on Climate Change: Implications				
Policy Le	ns for Policy				

04

Statistics for Public Policy

Probability and statistics basics; Hypothesis testing; Bivariate linear regression model; Multivariate regression model; Model Specification Errors; Dealing with realworld issues; Categorical variables in linear regression; Intro to Time Series Analysis; Intro to Panel Data Analysis; Correlation vs Causation.

02 Introduction to Public Policy and STI

History of Public Policy; Policy Instruments; Policy Cycle; Policy Design Vs. Implementation; Global Perspectives on Public Policy; Theories, Frameworks, Models and Heuristics of Public Policy; Introduction to Science & Technology Policy; Rational for Science-Policy Interface; Governance of STI Enterprises; Science Policy and International Affairs.

03 Introduction to Science and Technology Policy

Theoretical understanding of policy making processes in India. Examines the role of stakeholders in policy processes - civil society organisations, industry, academia, international actors, etc. Role of STI policy in selected current and emerging key sectors, e.g. transport, health, energy, environment, or ICT. Explores the inherently political and contested nature of decision making.

Public Institutions in India: Theory and Practice

Executive, Legislative, Judicial Branches; Political Parties and Election Commission; Planning Commission and NITI Aayog; Bureaucracies and Public Choice Theory; Police and Law Enforcement; Institutions of Accountability; Banking System and RBI; Decentralisation and 73rd and 74th Amendments; Redistributive Institutions (PDS, MGNREGA, DBT); Introduction to Case Study Methodology.

05 Approaches to Science and Technology Policy

Identifies six themes key to understanding Science and Technology Policy (STP) viz, Safety, Ownership, Ethics/ morality, Knowledge base, Participation and Choice of policy instruments. Through sociological, economic, regulatory and legal literature on key sectors, e.g. transport, agriculture, health, energy, environment, or ICT.

Science, Technology, Innovation and Sustainable Development

Sustainable development and the SDGs; Historical perspective on technology development for societal objectives; dynamics of technological change; elements of innovation processes, perspectives on organising for effective innovation; case studies on role of STI in key sectors; role of STI in SD in India.

D7 Tools for Policy Analysis

Introduction to the policy process; Role of policy analyst; Stakeholder analysis; Graphical methods for visualizing data;Cost-Benefit Analysis; Experiments and quasiexperiments; Projection Techniques; Delphi Technique; Decision-trees; Multi-criteria Decision Analysis (MCDA); Expert elicitation.

Research Methods for Public Policy

Observational vs Experimental approaches; Identifying relevant actors and stakeholders; Identifying system boundaries; Formulating a theory of change; Survey design; Qualitative and Quantitative data collection: modes of observation (case studies, focus groups, interviews); Research Budgeting and Monitoring, External and Internal Validity; Research ethics; Policy Communication.

9 Public Interest Technologies

S&T is not just key to the development and delivery of public services and utilities, but it is also central to education, communication, participation and many more aspects of the public sphere. What is the role of S&T in serving public interest and generating public outcomes? How technology shapes different aspects of public, including that of privacy, ethics and justice is explored.

Principles of Economics for Public Policy

Supply and demand; Theories of consumer demand and cost; Welfare economics and deadweight loss; Market failures and govt policies; Market structure; Taxation and National accounting; Productivity and growth; Saving and investment; Unemployment; the Monetary System; International trade; Monetary and Fiscal Policy.

Modelling Complex Adaptive Systems for Policy

Systems thinking; complexity, adaptation; and sociotechnical systems; CAS and their properties; commonly applied modelling approaches in policy analysis for CAS; Agent-based modelling for policy problems of choice – problem formulation, concept formulation, model formulations, verification and validation.

12 Comparative Industrial Policy

Political Economy of Economic Development; Policy Environments for Production; Dependency Theory; Market Protection vs. Integration; Industrial Concentration; Growth and Building Comparative Advantage; Industrial Clusters and SEZs; Market vs. State-Led Growth; Institutional Form and State Capacity.

13 Energy and Infrastructure Finance: A Public Policy Lens

Creation of energy and infra assets; DCF Method and Valuation in Infra Investment; Debt vs Equity; Exit for Infra Projects; Infra Booms and Busts; Bank Financing vs. Bonds; DFIs, NBFCs and Risk Assessment; Currency markets, bilateral aid, EXIM banks; Tenders, bidding and contracts; Cash flow Management.

4 Perspectives on Climate Change: for Policy

Uncertainties and processes in climate policymaking. Impacts of CC on socio-economic and natural systems. Link between CC and development policies. Tech, market and mitigation options. Geographic, inter-generational and distributional equity. Policy facilitation for climate adaptation.

5 Managing the Energy Transition

Features of historical tech transitions; Systemic and evolutionary views on tech change; Introduction to policy studies in the context of tech transitions; Domestic and international politics of energy transitions and climate change; Firm strategies under uncertainty and change; the role of finance.

6 Causal Inference and Impact Assessment

Impact Assessment; Causality and the Problem of Confounders; Counterfactuals; RCTs - Implementation, Failures and Critique; Instrumental Variables; Matching Estimators; Propensity Score; DiD; RDD; Synthetic Control; Structural Causal Models; List Experiments and Natural Experiments; Qualitative Methods for Causal Inference.

7 Socio-Economic Data Analysis

Socioeconomic survey data; Intro to R; Data sources in India; Datasets used: 1) Indian Census, 2) National Sample Surveys, India Human Development Surveys, 3) National Health Surveys and District Level Household Surveys, 4) Annual Status of Education Report, 5) ICRISAT Village Dynamics in South Asia, 6) Annual Survey of Industries.

Urban Planning Practicum

Delhi urban planning, Informal settlements, Laldora/ urban village, public participation, deliberative democracy, Geddes, Jacobs, advocacy planning, muddling through, collaborative planning, communicative turn, power, panopticism, planning in the face of power, design-organization.

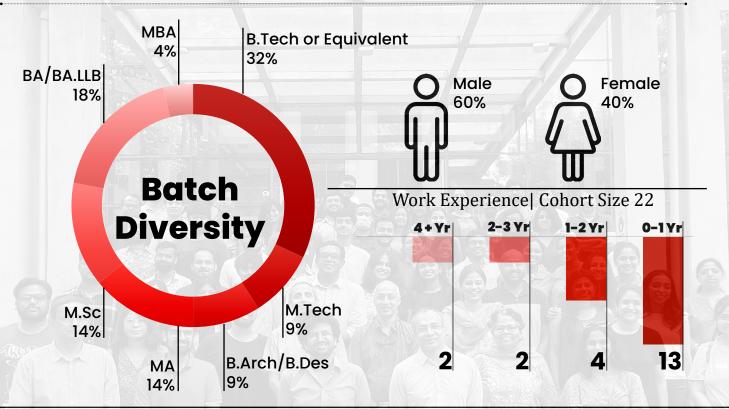
9 Special module in Policy studies

Aims to familiarized students with key concepts in science and technology policy making. Includes studying various elements, actors and stages in the policy process and critical perspectives on unpacking and understanding methods of policy analysis for the particular issue chosen by the instructor.

20 MPP Major Project – I & II Proposal & Final Thesis

Each Master's research thesis would be unique and contents would be developed by the student under the supervision of advisor(s). A research committee consisting of supervisor, internal examiner, an external expert and chairman would evaluate the thesis.

Cohort Profile



Core Areas



Energy and Environment



Internet, Digital Information and Society



Innovation Systems and Processes



Industry and Economy







Sustainable

Habitats



06

Agriculture, Food and Water

Internships and Past Experiences

The cohort concluded their 8-12 week summer internships with various impactoriented organisations and held positions in strategy, analytics, research, and consulting. The summer internships spanned the months of May and July.

07



Events and Collaborations

Seminar on India's clean energy entrepreneurship ecosystem

> Panel discussion on unpacking the Electricity (Amendment) Bill, 2022 at Center for Policy Research

08

Workshop on analytical tools for qualitative and quantative policy research

> Networking sessions with the entire school



TATA TRUSTS

HARVARD Kennedy School

		01 Mapping Diagnostic Innovations Landscape for Primary Healthcare	02 Role of Public policy in Innovation, Diffusion and Adoption of clean cooking technologies	03 Role of Policy in Tech innovation, Diffusion and adaptation in Air Pollution Management
PROJECTS O	AREAS AND F STUDENTS	04 Innovations in Regenerative Agriculture for Carbon Mitigation	05 FemTech apps: Safety, Security and survelliance in regulatory form	06 Strategy for sunrise sector - Semiconductor ecosystem
07 Study on India Innovation Index	08 Energy Consumption and efficiency imrovements in the Industrial Sector	09 Guidance on preparing India's Long Term Strategy for low carbon development	10 Emerging data privacy issue: A case of Artificial Intelligence in Healthcare	11 Development of Digharia Biodiversity park in Deoghar
12 Equity within and	13 Alternative fuel	14 Mental Models and	ructur 15 Green Hydrogen	16 The role of gender in
between States in Emissions Trading Markets	technologies for heavy vehicle decarbonization	Risk Perceptions in Delhi related to Climate Change	Value Chains and Commodity Trading	household agency and decision making
17 Reforms in the Gujarat electricity sector since 2003	18 Policy and regulatory reforms for sustainable integration of VRE in India's electricity sector	19 AI Implementation- gaps in training and industry	20 Financial health of discoms in Odisha	21 Digital Commons and its role in developing economies



Ainesh Phanithi Hyderabad, Telangana

Educational Experience: Bachelor or Technology, Information Technology, CVR College of Engineering



Social Alpha | Strategy Intern

- Analysed the regulatory and compliance landscape of global healthcare to develop a go-to-market and advocacy strategy.

Mindler Education Pvt Ltd | Product Management Intern

- Effectively coordinated among developers, QA, and other stakeholders to improve efficiency and productivity by 70%.

RioGlobal | Cyber Security Consultant

- Communicated SaaS offerings to clients to build resilience against cyber-attacks and improve their cyber security architecture.

Google Developers | Google Developer Student Clubs Lead

- Facilitated technological solution and expertise development using Google services for 3+ businesses in Hyderabad.
- Trained in Cloud Architecture, Security, Machine Learning Models, and Data Sorting using BigQuery by Google Developers.

Areas of interest :

- Developmental Strategy
- Impact Consulting
- Tech & Business Policy
- Digital Financial Inclusion

Skills :

- Programming
- Analytical Research Writing
- Policy Research
- Microsoft Office Suite
- Product Management
- Problem Solving



Innovation Systems and Processes



Ankit Patil Jalgaon, Maharashtra

Educational Experience: Bachelor of Technology, Electrical engineering, IIT Bombay Master of Technology, Electrical engineering, IIT Bombay

🕝 LinkedIn Profile

Data Security Council of India | Policy Intern

- Submitted report on "Emerging data privacy issues: A case of Artificial Intelligence in Healthcare".

Qualcomm India Pvt Ltd| Machine Learning Engineer

- Member of the Artificial Intelligence team at Qualcomm & Conducted preliminary data analysis of communication data at Qualcomm.

M H ALSHAYA, Kuwait | Data Scientist at Digital Marketing

- Designed Customer Segmentation Module using RFM behavior for demographic data (10+ brands).

- Conducted latency, churn and market basket analysis using R programming, Python, and SQL & segmented customer data of over 2.5M customer base | Used GMM and K-means for clustering.

BLOOMIGO.IN, Mumbai | Intelligent Recommendation Engine

- Conceptualized algorithm to recommend potential companies to users using R, SQL and VBA & Extracted data features using Deep Neural Networks for career timeline of 50k professionals.



Regulation of Emerging technologies

- Science, Technology and Innovation
- Policy
- Technology and Society

Skills :

- Applied Mathematics: Machine Learning, Computer Vision, Probability & Random Processes, Statistics

- Programming: Python, R, Matlab, SQL, Verilog, C++, Latex, Assembly
- Softwares: NGspice, LTspice, Quartus, Logisim, Autocad, Solid Works Studio







Avinash Koli Dehradun, Uttarakhand

Educational Experience: Bachelor of Planning, School of Planning and Architecture (SPA), Bhopal Master of Arts in Politics (Specialisation in International Relations), Jawaharlal Nehru University (JNU), Delhi

InkedIn Profile

Sattva Consulting, Gurugram (ESG-Sustainability and Business Advisory Unit)

- Formulated a sustainability strategy and conducted a action planning workshop for a FMCG company & executed Business Responsibility and Sustainability Reporting (BRSR) for a client, a carbon black company.

- Built internal assets including a diagnostic framework for integrating Environment Social Governance (ESG) into Enterprise Risk Management (ERM) of the businesses and best practice benchmarking framework.

• Guwahati Metropolitan Development Authority, Government of Assam, Guwahati

- Evaluated the draft master plan 2025 for Guwahati and dealt with objections regarding the same.

- Analysed the model building by-laws and provided recommendations for improvement.

• Aarusha Homes Pvt. Ltd, Bengaluru (Project Team)

- Carried out a quantitative feasibility study and proposed potential new sites for undertaking projects in Bengaluru & Chennai in accordance with the future demand, rental trends, and project budget.



Deepanshu Maheshwari Indore, Madhya Pradesh

Educational Experience: Bachelor of Engineering(Hons.) Computer Science, BITS Pilani Master of Arts(History) Delhi University (Dropped out)

☞ LinkedIn Profile

• Social Alpha | (May 2022 - July 2022)

- Involved in mapping diagnostic innovations landscape under 16 essential services of primary healthcare. Identified the gaps in primary health care that can be solved by innovation. Also scouted for companies(startups) through online avenues in this space which are developing innovative solutions.

- While doing internship at Social Alpha, reported to Director, Social Impact Unit -Health, responsible for formulating investment thesis.

- Worked towards developing sales channel for an Assistive Technology startup, Dextroware. Submitted a report examining usage of smart devices by Persons with Disabilities to CEO, Dextroware.

- Applied Double Diamond design model for innovation towards an attempt to solve occupational health disorders among cycle rickshaw pullers in Delhi.

Areas of interest :

- ESG/Sustainability
- Internet and Technology Policy
- Regulatory Governance
- Report/Policy Briefs Writing

Skills :

- Knowledge of Statistics, Causal Inference (regression, ANOVA, t-tests, etc.)
- Microsoft Office & Google Suite
- Predictive Data Analysis using R & Excel
- Data Collection (Primary & Secondary)
- Questionnaire Designing, LateX, PRISMA



Internet, Digital Information and Society



- Regulation of Emerging technologies
- Regulatory Governance
- Report/Policy Briefs Writing

Skills :

- Analytical Research Writing
- Policy Research
- Microsoft Office Suite
- Policy Analysis
- R Programming Basics







Harsh Singh New Delhi

Educational Experience: Bachelor of Technology, Civil Engineering, Vellore Institute of Technology

🕝 LinkedIn Profile

• Eastern Coalfields Ltd. (Coal India Ltd. Subsidiary), Chitra Mines | Research Intern

- Analysed the regulatory and compliance landscape of Coal India's Rehabilitation & Resettlement Policy.

- Assessed the practical implications on the affected party and policy opportunities to effectively increase compliance.

Forest, Environment and Climate Change Department, Government of Jharkhand | Project Intern

- Livelihood upliftment project for the tribal communities of forest dwellers involved in Leaf-Plate Production.

- Engaged in primary market research, stakeholder and alternative analysis; projected 40% increment in income levels.

DLF Home Developers Ltd., Delhi | Project Management Intern

- Construction of DLF Belaire Underpass, Gurugram: Trained on various aspects of quality control and project management.

Areas of interest :

- Energy Transition
- STI Policy
- Technology Management and Policy
- Report/Policy Briefs Writing

Skills :

- Policy Research and Analytical Writing
- Microsoft Office Suite
- Project Management
- Problem Solving
- C++, Python, SQL, R



Energy and Environment



Jatin Mathur

Educational Experience: Bachelor of Science (H) Biomedical Science, University of Delhi Postgraduate Diploma in Environmental Law and Policy (PGDELP), National Law University, Delhi

InkedIn Profile

• Prayas (Energy Group) | Intern

- Worked on the project titled Industrial Energy Consumption and efficiency improvements as part of modelling of the Industrial Sector (Aluminium industry).

NH Consulting Private Limited | Assistant Manager

- Tasked with project designing & implementation for specific provisions of Biodiversity Act 2002.

Global Youth for Environment and Sustainability | Project Officer

- Leading the coordination work on climate change research, advocacy and policy Lead involvement in the preparation of guidelines for universities to be net zero.

- Oxford Policy Advisory Group (OPAG) | Project Consultant
- Synthesizing and recommending policy solutions for the state of Tamil Nadu.

United Nations Development Programme (UNDP) Indil, Intern

- Engaged in the preparation of a policy document on recognition and management of OECMs in India.



Areas of interest :

- Energy Policy
- Corporate Sustainability, ESG and Cli-
- mate adaptation
- Public values, Interest & Institutions
- Decarbonization and Net Zero

Skills :

- Technical, Communicative and Policy Writing

- Data Analysis and visualization (Qualitative and Quantitative)

- Modelling of complex systems
- Project Management









Kalyani Tidke Nagpur, Maharashtra

Educational Experience:

and Management, Nagpur



C LinkedIn Profile

- Niti Aayog, Science and Technology Vertical, New Delhi | Intern
- Analyzing opportunities in the sunrise sector "Semiconductor and its Ecosystem".
- Government of Maharashtra, District Administration, Wardha | Chief Ministers' Fellow
- Collaborated with various stakeholders (civil society, government departments, industry, educational institutions, farmers, and the local community).
- Worked closely with district administration (Dept of Rural Development, Mavim) on empowerment, enterprise development, product marketing, and business handholding of women self-help groups(SHGs).
- Worked on understanding the impact of Agrarian schemes in Maharashtra (POCRA, Jalyukt Shivar).
- Accenture Solutions pvt.Itd ,Bengaluru | Application Development Associate
- Connected with stakeholders to understand the requirement and provide an effective technical solution, worked on both front-end and back-end coding.
- Received excellence award for contribution to client project.

Areas of interest :

- Innovation & Entrepreneurship
- Science & Technology Policy
- Policies for Semiconductor Industry
- Technological Capacity Building

Skills :

- Policy Analysis
- R Programming Basics
- C, C++
- Front-end coding languages
- Python, SQL





N. Ramakrishnan Chennai, Tamil Nadu

Educational Experience:

Bachelor of Technology, Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli

Bachelor of Technology, Electronics and Communication Engineering, Shri Ramdeobaba College of Engineering

☞ LinkedIn Profile

mByom Consulting and Management Services LLP | Intern

- Part of team for Preparation of Detailed Project Report (DPR) for Tamil Nadu Agro Industrial Corridor.
- Studied Policy Notes, Strategy Documents of Various Department of Govt. of Tamil Nadu.
- Undertook a Benchmarking Analysis of Global Agro-Industrial Corridors.
- Provided Project Management Support.

Ittiam Systems Pvt Limited | Engineer

- Worked on development and optimization of USAC Decoder.
- Performed code optimization for various audio codecs. Optimizations done for various platforms such as ARM and Intel cores.
- Worked on Optimizations for Post Processing components.
- Customer interactions for various production releases.

Areas of interest :

- Public Sector
- Governance
- Technology

Skills :

- R Programming
- Python
- C, C++
- Secondary Research
- Microsoft Office







Naira Oberoi New Delhi Educational Experience: Bachelor of Arts, Political Science and English, Davidson College, North Carolina, USA

Perfect Relations | Policy and Communications Consultant

- Work encompasses image building, crisis communications and public affairs.

Ernst and Young, LLP | Associate Consultant, Government and Public Sector Unit

- Tasks included drafting policy, project management, monitoring and evaluation, stakeholder engagement and business development.

CNN International | Digital Intern

- Researched and wrote articles published on CNN.com, edited copy and built stories through the CMS interface.

• J. Walter Thompson | Strategy and Planning Intern

- Core member of a small team (formerly Thompson Social), handing clients like UNICEF, PSI and GAVI. Also worked with clients like Pepsi and Nestle chocolates.

Observer Research Foundation | Policy and Research Intern

- Worked to revamp their digital presence, in addition to writing commentaries, research reports and helping organize weekly conferences.

Areas of interest :

- Education
- Gender and Technology
- Culture and Heritage
- Public Health

Skills :

- Research, Technical, Policy and
- Communicative Writing
- Public Relations and Stakeholder Management
- Project Management, Monitoring and Evaluation



Sustainable Habitats



Niteesh Shanbog Bengaluru, Karnataka

Educational Experience: Bachelor of Engineering, Electrical and Electronics Engineering, BMS Institute of Technology Master of Technology, Electrical and Electronics Engineering, PES University

🕝 LinkedIn Profile

Initiative for Sustainable Energy Policy | Intern

- Collaborated with a team of academics to analyze the design of a hybrid electricity market in Karnataka by simulating the state's energy network.

• CSIR Central Electronics Engineering Research Institute (CEERI) | Junior Research Fellow

- Collaborated with India-H2O, an initiative by the EU, UK, and Indian governments to bring social transformation in rural Gujarat by enabling equitable water access.

- Represented CSIR-CEERI in India H20 consortium meetings and design team meetings.

Enzen Global Solutions | Research Intern

- Part of the Applied Research and Collaboration team to identify innovations and opportunities in the Energy and Utilities market.

- Pushed to implement Active Network Management (ANM) in solar and wind farms of Tamil Nadu and Karnataka. Efforts led to the commissioning of India's first ANM in Tamil Nadu and devised strategies to incorporate Industry 4.0 standards into Enzen's existing portfolio.

Areas of interest :

- Energy Transition
- Modelling Energy Systems and
- Markets
 - Climate Change and Sustainability

Skills :

- R Programming
- Qualitative and Quantitative Research
- Microsoft Office Suite
- Python for Data Analysis
- Hardware Design and Prototyping
- Academic Writing







Parth Kamath Baroda, Gujarat Educational Experience: Bachelor of Engineering, Civil Engineering, The Maharaja Sayajirao University of Baroda M.Sc. Urban Water and Sanitation - Sanitary Engineering - UNESCO-IHE Delft Institute for Water Education



InkedIn Profile

Initiative on Climate, Energy & Environment - CPR, Centre for Policy Research | Summer Intern

- Analysed the agricultural policy environment in India to understand the rise in stubble burning for crop residue management.

National Institute of Urban Affairs | Technical Program Officer

- Advised government and private stakeholders on implementing national programs and missions for improving sanitation in Indian urban centres.

- Conducted capacity-building programs on water, sanitation, and hygiene (WASH) for government officials in Uttarakhand.

• Econ Pollution Control Consultants | Project and Design Officer

- Provided consultancy services to food and beverage manufacturing industries on wastewater management and infrastructural developers on urban water management in India.

Areas of interest :

- Policy analysis and advocacy
- Project management consultancy
- Urban infrastructural development and management

Skills :

- Microsoft Office Suite
- Google Suite
- Adobe Suite
- AutoCAD
- Qualitative Research



Energy and Environment



Pragya Maheshwari Ranchi, Jharkhand Educational Experience: Bachelor of Architecture, Birla Institute of Technology, Mesra

🕝 LinkedIn Profile

Social Alpha- Foundation for Innovation and Social Entrepreneurship | Intern

- Responsible for building problem statements, evaluating deep tech innovation and implementation of new technologies in air pollution management, identifying market challenges and start up ecosystem to develop potential solutions.

Chadda and Associates | Intern

- Interpretation and collaboration with the client to gauge requirements and to arrive at design solutions ensuring sustainability and cost estimation. Reaching out to vendors for resource management and creating BOQs.

• Eternal Architects | Intern

- Provided extensive design, visualization and analysis using Building Information Modelling for multiscale commercial, residential projects including planning and layout through strategic design management.

Airport Authority of India | Intern

- Analyzed contextual and global elements, diagnosed design anomalies, calculated footfall and proposed design interventions in consultation with client.



Areas of interest :

- Strategy Consultancy
- Product Management
- Energy Transition and Finance
- STI and Sustainability

Skills :

- Languages: R Studio, Python for Data Analysis, SQL, Latex

- Tools: Figma, MS.Suite Revit BIM +

Dynamo, Rhino + Grasshopper, Diva, Autocad, Ecotect, Radiance, 3Ds Max, Blender, Sketchup



Energy and Environment



Prekshaa Arunachalam Dehradun, Uttarakhand **Educational Experience:** Bachelor of Engineering, Computer Science and Engineering, Kumaraguru College of Technology (Anna University)

C LinkedIn Profile

- Diageo India | CSR and Sustainability Summer Intern
- Spearheaded the project planning and corporate relations of two CSR projects.
- National Innovation Foundation, Govt. of India | Policy Intern

- Curated technology diffusion action plans for two grassroot innovations using forecasting and assessment tools.

Dehradun Smart City Ltd. | Project Intern

- Worked on the implementation phase for Integrated Command & Control Centre and Smart School.

- Forge Accelerator | Product Management and Innovation Intern
- Felicitated by MHRD as Innovation Ambassador for organizing national-level Hackathons partnered with Schneider Electric, AstraZeneca, and DRDO.
- South Asian Forum for Environment | Quantitative Research Intern -Analysed farm data using Python under projects sponsored by Global Development Network and GIZ.

Areas of interest:

- Impact Consulting
- Technology Management and Policy
- Artificial Intelligence Governance
- Corporate Social Responsibility

Skills:

- Project Management
- Data Analysis and Visualisation
- Technical Writing
- Design Thinking and Innovation Management



Internet, Digital Information and Society



Sanskruti Vidhate Pune, Maharashtra

Educational Experience:

Bachelor of Technology, Electrical & Electronics Engineering (EEE), Vellore Institute of Technology, Vellore

🕝 LinkedIn Profile

• SPP, IIT Delhi (Prof. Nandana Sengupta) | Research Intern

- Carried out stakeholder mapping for the study on implications of usage of AI in the Indian legal system.

Envisions Institute of Development (EID) | Research Intern

- Supported the organisation on projects related to COVID-19 Risk Communication and Community Engagement (RCCE) and 'Swachh Bharat Abhiyan'.

Teach For India, Pune | Fellow

- Taught 35 students in a government school from their 2nd to 3rd grades and raised their grade levels in English and Mathematics.

• Barefoot College (SWRC), Tilonia village, Rajasthan | Coordinator

- Generated revenue and built capacity of two rural social enterprises.

Areas of interest :

- Sustainability
- Social Enterprises (Innovation)
- Skill Development
- Education

Skills:

- Leadership
- Team Management
- Policy Research
- Analytical Research Writing,
- Teaching
- Microsoft Office Suite









Shaurya Anand Lucknow, Uttar Pradesh Educational Experience:

I Linked in

LinkedIn Profile

• Council of Energy Environment and water, CEEW, Delhi | Sustainable Mobility Team | Technology, Finance and Trade | Research Intern -Sustainable mobility

Bachelor of Urban Design, (Planning Department), CEPT University

- Increasing ridership and efficiency of public transport: Alternative Bus Fuel Technology Options for SRTUs in India | Data analysis, presentation, and report.

- Creating Excel Dashboard Of TCO (Total Cost of Operations) and Capex and opex distributions of different SRTUs, Pollutants and Emissions, Social Cost of Carbon etc.

- Capacity Building and Regulatory Enhancements: Review, Advocacy, Public Policy, and

Roadmap for Unified Metropolitan Transport Authority and Urban/Regional Transport Fund

- Survey data analysis: Using Python, Pandas profiling report.

• Lucknow Development Authority (LDA), Planning Department | GIS Analyst

- Designing for Sustainability: Analyzing the Urban Growth pattern, city demographics data (Census) projection, and land use distribution with respect to Master plan 2031.

- Analyzing Impact of rapid urbanization and the development of policies with respect to smart cities program.

- Planning and layout of new sectors in live housing schemes and Coordinating with Public works department (PWD) for on-site projects.

• Areas of interest :

- Energy Transition
- Urban Planning & Consulting
- Data Analytics

Skills :

- Python, SQL, R, QGIS/ ArcGIS
- STATA, SAP, Autocad
- Tableau, Power BI, MATLAB
- Primavera P6, Microsoft Projects

Certifications:

- Python For data analysis
- MySQL for Data Analytics and Business
- Intelligence
- Machine Learning Using Pyton and R



Energy and Environment



Shubhabhrata Roy New Delhi

Educational Experience: Bachelor of Commerce (Hons.) (Delhi University - Shaheed Bhagat Singh College Post Graduate Program in Management (International Management Institute, Marketing & Strategy) <u>LinkedIn Profile</u>



July 2019 - Present (3 years 3 months) Delhi Area, India

• Leapfrog Strategy Consulting | Investor/Member of the Board of Advisors May 2020 - Present (2 years 5 months) Delhi Area, India

• Nuvah LLP | Member of the Management Board April 2020 - Dec 2021 (1 year 9 months) Delhi Area, India

• Purple Audacity Research & Innovation Pvt. Ltd. | Co-Founder, CEO Nov 2008 - June 2019 (10 years 8 months)

• Kantar IMRB | Insights Director April 2004 - Aug 2008 (4 years 5 months) Delhi Area, India

Areas of interest :

Inclusive Innovation

Skills :

- Entrepreneurship
- Leadership
- Research
- Marketing
- Policy Research
- Analytical Research Writing



Innovation Systems and Processes



Sruthi Vanguri Tanuku, Andhra Pradesh

Educational Experience: Bachelor of Arts, Economics (Hons.), Lady Shri Ram College for Women, New Delhi Master of Arts, Political Science, University of Delhi



LinkedIn Profile

London School of Economics (LSE) | Research Assistant

- Assisted in fieldwork and collection of primary data in the form of semi-structured interviews and FGDs across Delhi.

Data Security Council of India (DSCI- NASSCOM) | Public Policy Intern

- Submitted a research papaer titled 'FemTech Apps: Safety, Security and Surveillance in a Regulatory Vacuum'.

National Human Rights Commission (NHRC) | Student Intern

- Worked issues of social justice such as transgender welfare, custodial violence etc.
- NITI Aayog | Policy Research Intern

- Submitted a report comparing the quality of education and its impact under two government schemes on education to the PEO division.

Mazdoor Kisan Shakti Sangathan (MKSS) | Policy Research Intern

- Monitored Government schools and mobilized the community for more awareness on RTI, RTE and RTH, apart from primary data collection.

Areas of interest :

- Policy Research and Consulting
- Emerging Technologies and Tech
- Policy
 - STI and Social Justice

Skills:

- R programming
- Quantitative and qualitative research
- Research writing
- MS Office



Internet, Digital Information and Society



Susan Das Bhubaneswar, Odisha **Educational Experience:** Bachelor of Technology, Civil Engineering, Odisha University of Technology and Research

LinkedIn Profile

School of Public Policy, Indian Institute of Technology, Delhi | Summer Intern

- Guidance on preparing India's Long-Term Strategy for Low Carbon Development.

- Carried out Analysis of other countries' LTS documents for Finance, CDR, Forestry, and Industry sectors and synthesized mitigation strategies.

- Assisted in drafting the Adaptation Chapter in India's LTS Document particularly focusing on the impact of climate on mitigation strategies and vice-versa, synergies between adaptation, mitigation, and development.

- Synthesised transition strategies undertaken by different countries (policies, targets, narrative discourses, cross-sectoral linkages, uncertainties, etc.

Office of the Executive Engineer, Bhubaneswar (R&B) Division No I, Section I under Sub-division No III, Government of Odisha | Summer Intern

- Gained on-site experience of various restoration works in Bhubaneswar in the aftermath of cyclone Fani.

- Assisted in supervision of construction of roads and building work in Bhubaneswar
- Gained experience in the survey of road work in Bhubaneswar.

Areas of interest :

- Energy and Infrastructure Finance
- Energy Markets and Regulation
- Climate Financing Just Transition
- Climate Change Mitigation

Skills:

- R Programming
- C, Python
- Quantitative and Qualitative Research
- AUTOCAD, 3DS AUTOMAX
- Causal Inference





Unnati Singh New Delhi

Educational Experience: Bachelor of Arts- Bachelor of Legislative Law (LLB) ; Guru Gobind Singh Indraprastha University, Delhi



LinkedIn Profile

• Social Alpha, New Delhi | Policy Intern

- Examined the innovation, adoption & diffusion of clean cooking technologies and analysed the regulatory & compliance landscape of clean cooking market to develop a go-to-market (GTM) strategy for portfolios.

Chambers of Additional Solicitor General of India, New Delhi | Research Intern

- Organised interviews and prepared witnesses for cases, developed detailed litigation strategies, communicated effectively with corporate clients to interpret laws, rules and regulations.

- Assisted in arbitration proceedings (contract), cases on winding up & amalgamation, and researched on privacy policies of social media platforms.

• Helpage India, New Delhi | Legal Intern

- Worked on a draft proposal for amendment to The Maintenance and Welfare of Parents and Senior Citizens Act, 2007 which included surveying the Maintenance Tribunals for the organisation's dedicated project on the appraisal of the Act.

Areas of interest :

- Organisations and Public Value Creation
- Energy (Access, Equity and Transitions)
- Innovation and Intellectual Property

Skills :

- MS Office
- R Programming
- NVivo
- Zotero
- Quantitative & Qualitative Research

Energy and Environment



Upasana Rangarajan Mumbai, Maharashtra

Educational Experience: Bachelor of Arts, Liberal Arts (Honours) (Economics), Symbiosis International University

🕼 <u>LinkedIn Profile</u>

• Research Trainee | BIAS, Inc., New Delhi

Research Assistant in the Social Science wing, assisting on projects, collaborating with outfits such as UNDP.

• Research Assistant to Dr. Alok Oak (Faculty, Political Science and Public Policy, Symbiosis School for Liberal Arts).

Contributed to research publication- 'Intellectual Foundations of Gandhi's Rural Programmes' (under review). Other assignments involved proofreading, archival work, editing and providing critical insights on the faculty's on-going projects.

• Research Intern | Think Tanks and Civil Societies Program, University of Pennsylvania: Worked on an extensive comprehensive annual report on think tanks in India under Dr. James McGann. Presented the findings of the report to the top think tanks of India, at the TTCSP India Think Tank Summit, 2021.

- Editorial Intern | Newslaundry:

Worked extensively on two projects- "Who owns your media?" and "Media in 240 characters". Worked on podcast production, video editing, social media and other related departments as well.

• Areas of interest :

- Political Thought and Research
- Advocacy and Social Justice and
- Welfare
- Gender

Skills :

- Working Knowledge of R Software
- Proficient in MAXQDA-
- Proficient in MS Office.

Publication : Upasana Rangarajan, 'Reclaiming the Legacy of Andal: Lessons for Modern Tamil Woman', Journal of Interdisciplinary Studies, June 2020.



Internet, Digital Information and Society





Vishvak Kannan Chennai, Tamil Nadu

Educational Experience: Bachelor of Technology, Biotechnology, SASTRA University, India MSc Biology (Ecology and Evolution), ETH Zürich, Switzerland

LinkedIn Profile

• Tata Institute for Genetics and Society, Bengaluru | Policy Intern

- Developed policy paper advocating the integration of wastewater based epidemiology as a tool in public health surveillance.

- Conducted policy seminars on science-policy interface and strategic science communication.

CHIRAG, Himachal Pradesh | SBI Youth for India Fellow

- Rural development project in spring-shed management at Nirmand, Kullu, Himachal Pradesh.

- Overall management and execution of capacity development and skill enhancement programme for para-hydrogeologists.

ABS Partnership Project, GIZ India, Chennai | Consultant

- Liaison with government, industry, academia, regulatory bodies.
- Developed sector-specific guidance documents consistent with national biodiversity policy & Conducted strategic communication workshops.
- Capacity development initiatives for Biodiversity Management Committees.
- Multi-stakeholder dialogue for compliance with Biological Diversity Act, 2002.

R Gayathri Chennai, Tamil Nadu

Educational Experience:

Bachelor of Arts, Bachelor of Laws (Hons.), School of Excellence in Law, The Tamil Nadu Dr Ambedkar Law University

🕝 <u>LinkedIn Profile</u>

Grant Thornton Bharat LLP, Hyderabad | Manager

- Trained and led teams on diverse consulting assignments, litigation management for MNCs and representation of companies before government authorities.

• BDO India LLP, Chennai | Manager

- Trained and led teams on diverse consulting assignments, litigation management for MNCs and representation of companies before government authorities.

Ernst & Young India LLP, Chennai | Senior Consultant

- Worked with companies on the GST implementation in India, supported Partner & Directors on key deliverables, led and managed litigation projects for MNCs.

• Economic Laws Practice, Tier I Tax Law Firm, Chennai | Associate

- Represented and advised leading companies on corporate and indirect tax matters.



Areas of interest :

- Climate Mitigation and Adaptation
- Carbon Markets
- Public Governance and Equity

Skills :

- MS Office
- R Programming
- Quantitative & Qualitative Research
- Research writing
- Critical + Analytical thinking
- Strategic communication



Energy and Environment



- Technology and Policy
- Urban Policy
- Labour laws
- Rural Development

Skills :

- Legal research and drafting
- Policy Analysis
- MS Office
- Quantitative&Qualitative Research
- Research writing
- Strategic communication



Sustainable Habitats



From the Desk | Invitation



Dr. Debanand Misra

Placement Coordinator, School of Public Policy

It is an immense pleasure to introduce the first MPP cohort at the School of Public Policy, IIT Delhi. The MPP at IIT Delhi is one of a kind due to it's focus on Science, Technology, Innovation and Development. The cohort has brought together 22 students aged 21-42 years from broad academic and professional backgrounds, such as the sciences, engineering, humanities, and law, in order to establish a vibrant interdisciplinary learning atmosphere in the school.

The MPP students have interned with think tanks, research organizations, not-for-profits, and consulting companies that included the Centre for Policy Research (CPR), Prayas (Energy Group), Data Security Council of India (DSCI) – NASSCOM, NITI Aayog, Social Alpha, and Sattva Consulting. The experience of the MPP students within the rich academic environment of IIT Delhi have prepared them well to work and contribute to various areas including policy analysis, impact analysis and strategy, and government consulting in the public or the private sphere.

CONNECT WITHUS

Faculty Coordinator

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