



INDERPRASTHA BUSINESS SCHOOL

Where Vision Meets Venture

ONE WEEK FACULTY DEVELOPMENT PROGRAMME RESEARCH METHODOLOGY & FUNDAMENTALS



22nd December to 27th December, 2025



INDERPRASTHA ENGINEERING COLLEGE, GHAZIABAD

After independence, India saw rapid population growth, which brought the challenge of keeping pace with global technological progress. To equip the youth for the demands of the 21st century, the education sector expanded quickly, with universities and private institutions introducing modern, industry-ready learning environments. This new wave of private participation helped shape a more competitive and innovative higher education landscape. With a vision to serve society through quality education, a group of committed Uttar Pradesh bureaucrats established the SHAIL GARG SHIKSHA SANSTHAN. Under its guidance, Inderprastha Engineering College (IPEC) was founded as a self-financed institution to meet the growing need for technical education in the NCR region. The institute is approved by AICTE and affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow. IPEC stands as an emblem of excellence with NAAC accreditation, NBA-accredited programs (CSE, IT, ECE & ME) and ISO 9001:2015 certification. Ranked among the top institutions under Dr. APJ AKTU, it offers B.Tech programs in six disciplines including CSE, CSE (AI & ML), CSE (Data Science), ECE, IT and Mechanical Engineering, along with an M.Tech in Computer Science & Engineering, catering to over 2,420 learners. The institute's experienced and dedicated faculty ensures strong academic performance, reflected in its consistently high results. Students benefit from expert guest lectures, industrial visits, seminars, workshops, personality development sessions and hands-on learning that foster innovation, leadership and professional competence. IPEC's Training and Placement Cell maintains strong industry connections, helping students secure placements in leading companies. The lush, 7.81-acre campus located in Sahibabad Industrial Area—close to Anand Vihar ISBT and Vaishali Metro Station—makes it easily accessible for aspiring engineers across NCR.

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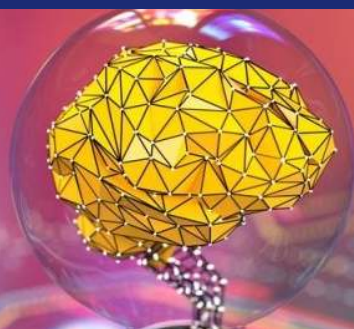
It was established in the year 2000, by leading academicians and business leaders in North India, under the aegis of Shail Garg Shiksha Sansthan, a non-profit making society. IPEC is the emblem of excellence, NAAC Accredited Institute, and an ISO 14001:2015 certified institute. It offers undergraduate programs (BCA/BBA) and post-graduate programs (MCA/MBA). In the realm of technical and management education, our institution boasts a team of highly qualified, experienced, and dedicated faculty members who are committed to nurturing and empowering students. Our focus lies in producing industry-ready professionals who are not only competent in their respective fields but also uphold ethical standards and demonstrate humane values.

FACULTY DEVELOPMENT PROGRAMME (FDP)

The Faculty Development Programme (FDP) aims to equip participants with a comprehensive understanding of research methodology and its practical applications. It is designed to familiarize faculty members, research scholars, and academicians with advanced research techniques, modern tools, and research-based instructional strategies.

The programme focuses on enhancing participants' ability to conduct independent and systematic research. It provides exposure to relevant and contemporary research methods, including questionnaire design, systematic literature review, survey creation, data gathering and validation, and the effective use of research tools.

Through expert-led sessions, the FDP also guides participants in identifying significant research problems, adopting appropriate methodologies, and writing high-quality research papers suitable for reputed journals. Overall, the programme intends to strengthen research competence and promote a culture of rigorous, informed, and innovative academic inquiry.



OBJECTIVES

- To guide researchers in identifying, evaluating, and synthesizing existing research aligned with a specific research question or topic.
- To help participants formulate robust research designs and well-structured research questions.
- To enhance participants' understanding of complex relationships among research variables, enabling them to make informed decisions and develop effective interventions.
- To familiarize participants with research funding opportunities, agencies, and the significance of collaborative research.

PROGRAMME HIGHLIGHTS

- Comprehensive sessions on research methodology and its practical applications.
- Hands-on training in questionnaire design, survey creation, and data collection techniques.
- Systematic Literature Review (SLR) methods and tools for identifying relevant and high-quality research.
- Step-by-step guidance on data validation, data analysis approaches, and interpretation.
- Dedicated module on writing high-quality research papers suitable for reputed journals.
- Exposure to cutting-edge research technologies and contemporary research-based teaching methods.
- Interactive discussions, case studies, and expert-led workshops to strengthen independent research capabilities.

EXPECTED OUTCOMES

By the end of the FDP, participants will be able to:

- Understand and apply modern research methodologies with confidence.
- Formulate clear, relevant, and impactful research questions and hypotheses.
- Design effective research instruments and conduct surveys with validated data.
- Perform a systematic review of literature using proven techniques and tools.
- Analyze and interpret data to generate meaningful research insights.
- Prepare and structure research manuscripts for publication in reputed journals.
- Identify potential research funding sources and participate in collaborative research initiatives.

PROGRAMME SCHEDULE

Day 1

- Inauguration & Introduction to Research Methodology
- Types of Research & Research Problem Identification
- Fundamentals of Research Design

Day 2

- Systematic Literature Review: Concepts & Tools
- Hands-On Session: Searching, Screening & Synthesizing Literature
- Referencing & Citation Management Tools (Mendeley/Zotero)

Day 3

- Questionnaire Design and Survey Techniques
- Data Collection Methods & Data Validation
- Ethical Issues in Research

Day 4

- Basics of Data Analysis (Qualitative & Quantitative)
- Software Tools for Data Analysis (SPSS/Excel/Other Tools)
- Interpreting Results for Research Papers

Day 5

- Research Paper Writing for Indexed Journals
- Structuring Abstract, Introduction, Results & Discussion
- Research Funding Agencies & Collaboration Opportunities
- Valedictory Session

WHO SHOULD ATTEND?

- Faculty members from management and social sciences
- Research scholars
- Professionals interested in quantitative data analysis

Scan for Registration



RESOURCE PERSONS



Dr. Rajat Agarwal, Assistant Professor, Deptt. of Management Studies, IIT Roorkee

Dr. Rajat Agarwal is an Assistant Professor at the Indian Institute of Technology Roorkee (IIT Roorkee) in the Department of Management Studies. His research interests include operations management, supply chain management, and data analytics.



Dr. Prabhat Mittal, Professor, Deptt. of Commerce and Management, University of Delhi

Prof. (Dr.) Prabhat Mittal is Professor – Commerce and Management, Satyawati College (E), University of Delhi. He is a post-doctoral Fellow in University of Minnesota, Minneapolis. He has completed his Ph.D from Faculty of Management Science, University of Delhi.



CMA Dr. Kinnarry Thakkar, Professor & HOD of Commerce, University of Mumbai

Dr. Kinnarry Thakkar is a distinguished academician serving as Professor & Head of the Department of Commerce at the University of Mumbai and Principal of SIES Commerce & Economic College. With an impressive academic background, she holds a Ph.D., ACMA, CS, and MBA (Finance) degree, and was a gold medalist in her M.Com. Her research interests span finance, accountancy, and taxation. Dr. Thakkar has published numerous papers, including "An Empirical Analysis Of Online Learning Over The Face-To-Face Learning" in Psychology and Education. She actively participates in academic and professional events, organizing seminars and job fairs, earning recognition within the academic community for her expertise and contributions.



Dr. Saurabh Verma, Assistant Professor, Deptt. Management Studies, NIT Sikhar

Dr. Saurabh Verma is a certified Intellectual Property Rights (IPR) professional from WIPO and currently working as an Assistant Professor G-I in the Department of Management Studies (DOMS) National Institute of Technology (NIT) Silchar since 08 June 2018. He did his Ph.D. in Intellectual Property Rights and Consumer Psychology in 2017 From National Institute of Technology, Kurukshetra (Haryana).



Dr. Sachin Chaudary, Delivery Head, TCS

Mr. Sachin Chaudary is an influential IT leader with deep expertise in technology consulting, hyper-automation, and optimizing IT operations and spend. With extensive experience across the US and UK markets, he has successfully led large-scale IT managed services spanning Applications, Infrastructure, Cloud, and Security.

In his current role as Delivery Head for the Public Services – India Business Unit, Sachin drives delivery excellence across major Central and State Government initiatives. He is also instrumental in strengthening the organisation's AI/ML and Generative AI capabilities, enabling teams to build future-ready digital solutions.



Dr. Sahil Mehta, Assistant Professor, Hansraj College, University of Delhi

Dr. Sahil Mehta was appointed to Hansraj College, University of Delhi, making him the Youngest Assistant professor (Botany) in his alma mater as well as entire University of Delhi. Before the appointment, he had served as a lecturer in the Faculty of Life Sciences, IAMR-Ghaziabad, as well as the School of Agricultural Sciences, K.R. Mangalam University, Sohna, Gurugram. His educational qualifications include a Ph.D. (Life Sciences) from the International Centre for Genetic Engineering and Biotechnology (ICGEB), Jawaharlal Nehru University, and an M.Sc. (Botany) from the very reputed Department of Botany, University of Delhi, New Delhi, India. In addition, he is a lifetime member of the Indian Phytopathological Society (IPS) and the Delhi University Botanical Society (DUBS).

R E S E A R C H



CHIEF PATRON

Shri. Vishnu Saran
Chairman
Inderprastha Engineering College

PATRON

Shri. Puneet Agarwal
Vice Chairman
Inderprastha Engineering College

CHIEF COORDINATORS

Prof. (Dr.) A.K. Solanki
Director
Inderprastha Engineering College

Prof. (Dr.) Amit Jain
Dean Academics
Inderprastha Engineering College

CONVENER

Dr. Sadhana Gupta, Principal

CO- CONVENER

Prof. (Dr.) Ragini Karwayun
HoD – Computer Applications
Inderprastha Engineering College

Dr. Mahjabin Banu
HoD – Management Studies
Inderprastha Engineering College

MEMBERS

Dr. Adesh | Mr. Shriyak Jain | Ms. Ashi Jain | Mr. Hari Singh Rajput | Ms. Amandeep Kaur

REGISTRATION FEES:

For Research Fellows – Rs. 200/-

For Academicians – Rs. 250/-

PAYMENT DETAILS:

Name of Account: INDERPRASTHA ENGINEERING COLLEGE

AC No.: 50100087471211

Branch: HDFC Bank, D-44, RDC, Raj Nagar, Ghaziabad

IFSC Code: HDFC0000153



Email: fdp@ipec.org.in

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Shaping Engineers and Leaders for Future

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