

# ABOUT NITTTR CHANDIGARH

National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh has been established by the Ministry of Education, Government of India in the year 1967 to meet the requirements of training technical teachers for the growth and development in the country especially focusing on the northern region. Presently the Institute is offering services in the fields of Engineering and Technology, Entrepreneurship Development, Rural Development, curriculum development, Education and Educational Management, Media Engineering etc. The institute undertakes a wide spectrum of activities that encompasses: Education and Training Programmes, Curriculum Development, Instructional Material Development, Research and Development, Extension Services, industry institute interaction, Consultancy in Technical Education and Technology areas. The institute has various international and national collaborations to its accolade.

NITTTR Chandigarh has been a regular guiding and assisting force to the number of states in the areas of Educational Planning and Management. Since year 1992, the institute is offering Regular Master of Engineering Programmes and from the year 2005, institute started offering Modular Master of Engineering Programmes in various disciplines. All these programmes, being offered for teachers and administrators of technical institutions, professionals from industry and general candidates, are duly approved by AICTE and affiliated to Panjab University, Chandigarh. The institute has been recognized as a 'Research Centre' by Panjab University, Chandigarh (in 2006) as well as by IKG-Punjab Technical University, Kapurthala (Punjab) (in 2005) and recently by JC Bose University of Science and Technology, YMCA, Faridabad (in 2020) for pursuing research work leading to the degree of Doctor of Philosophy i.e. PhD.

# ABOUT EDIC DEPARTMENT

Entrepreneurship Development & Industrial Coordination (EDIC) department was established at NITTTR Chandigarh in the year 1983, with a view to introduce and promote entrepreneurship development and improve industry-institute interaction in technician education system in a planned manner. Subsequently, the scope was enlarged to include engineering colleges of the country with special focus on northern region. The department is engaged in training of entrepreneurs, potential entrepreneurs, entrepreneur-trainer-motivators (ETMs), technical teachers / managers, administrators and professionals from industries. The department has also conducted a number of international training programmes also with CPSC, Philippines; UNESCAP, Bangkok; Dudley College, UK etc. besides hosting international delegations. With a view to have a holistic approach to the promotion of entrepreneurship and industry-institute interaction, the department is also conducting Research & Development studies, preparing instructional material (both print and non-print), offering assistance in curriculum design and extension services to client institutes and undertaking consultancy work in the broad areas of entrepreneurship, cooperative education, industry-institute interaction and Management.

## VISION

Excellence in the promotion of entrepreneurship, business management, quality assurance, and industry-institute interaction.

## MISSION

To impart education and training to technical teachers, budding entrepreneurs, youth and industry professionals to transform them into effective trainers and business leader.



## ENTREPRENEURSHIP DEVELOPMENT AND INDUSTRIAL COORDINATION (EDIC) DEPARTMENT

(Excelling in entrepreneurship and industry  
academia linkages)



**National Institute of  
Technical Teachers Training  
and Research, Chandigarh**

## Objectives of the department

- To plan and conduct education and training programmes in the areas of entrepreneurship, small business management, innovation and incubation, quality management, Intellectual property rights and industry-academia linkages.
- To act as consultant to the National and International agencies viz. Ministry of Education, AICTE, State Directorates of Technical Education, Engineering Colleges & Polytechnics, State Directorates of Industries, and Entrepreneurial support agencies at the National level and UNESCO, UNESCAP, Chambers of Commerce and Industries, Dudley College, CPSC at International level in policy formulation, planning and implementing programmes of entrepreneurship development, management, cooperative education, and industry-institute interaction.
- To undertake R&D, instructional material development, curriculum design, and extension services in the areas of entrepreneurship, management, and industry-institute interaction.

## Activities Performed

The department is intensively engaged in accomplishing its objectives through the conduct of Entrepreneurship Development Programmes (EDPs), Faculty Development Programmes (FDPs) in Entrepreneurship Development and Industry Institute Interaction, Entrepreneurship Awareness Camps (EACs) for students, Programmes on effective management of Micro, Small and Medium Enterprises (MSMEs), and Training programmes for Training & Placement officers of Technical Institutions. Department is engaged in conduct of the activities in the following domains:

**Education & Training**

**Research & Development**

**Instructional Material Development (both Print & Non-print)**

**Curriculum Development & Extension and Consultancy Services**

## 1. Education & training

Conducting national level Short Term Training Programmes (STTPs) in various significant and emerging areas like Project Management, Blue Ocean Strategies, Soft Skills and Motivation Training, Small and Medium Scale Business Management, Quality Assurance and Accreditation of Institutions, Environmental Management, Supply Chain Management, Go to Market Strategy, Industry-Institute Interaction, Green & Social Entrepreneurship and Environmental Management System, Employability Skills for Industrial Revolution 4.0, etc. for teachers / managers / administrators from engineering colleges / polytechnics / industry of the country.

The department conducts on an average about 25 such programmes every year which are attended by around 500 participants annually. In addition 6-8 weeks Entrepreneurship Development Programmes and 2-3 days Entrepreneurship Awareness Camps are also being conducted for prospective entrepreneurs of various target groups. The department has organized Small Industries Managerial Assistance Programmes (SIMAP) and Skill cum Technology Development Programmes (STUP) in the past and has conducted many sponsored programmes for SIDBI, DST, EDII, NPIU, AICTE, CDAC and other organizations. The department has organized more than 16 National Conferences / Seminars on various subjects of Entrepreneurship and Industry-Institute Interaction. The department is also conducting National / Regional Workshops on Establishment and Management of ED Cells and II Partnership Cells.

## 2. Research and Development

The department has conducted a number of research studies including sponsored studies like expansion and modernization study in MSMEs of Chandigarh, Tracer study of Polytechnic pass outs in the Northern Region, Energy conservation and audit in SMEs, Impact of entrepreneurship development programmes etc.

## 3. Instructional Material Development

Production of instructional resources (both print and non-print) on Entrepreneurship Development, SME Management, Industry-Institute Interaction, Total Quality Management, and Quality Management System. The department has so far produced 30 books/text books, 45 modules, more than 200 programme booklets, and 32 educational video films in the areas of Entrepreneurship, Industry-Institute Interaction, TQM, Marketing, Management of SMEs, MIS, KMS, and 6 Sigma etc. Department is also involved in development of instructional material for improving learning outcomes and development of MOOCs

## 4. Curriculum Development

The department provides need based assistance to Curriculum Development Centre of the institute in design and review of curricula of technical education system.

## 5. Extension Services and Consultancy

The department provides need based assistance to Curriculum Development Centre of the institute in design and review of curricula of technical education system.

The department is also engaged in providing extension services to engineering colleges and polytechnics of northern region of India and has also undertaken a number of consultancy projects offered by NPIU, Department of Science and Technology, Directorates of Industries etc. The department provides extension and consultancy services related to technical education system in the relevant fields including Incubation Services and Business Start-ups.

## Salient Features of the Department

- Techno – Managerial capable multi-disciplinary faculty with background in Civil Engineering, Mechanical Engineering, Electronics & Communication Engineering along with MBA and Ph.D. in Business Management/Entrepreneurship.
- Strong linkages with industry and other reputed educational institutes like IITs / IIMs
- International exposure and linkages of the faculty
- Conducted number of Entrepreneurship Development Programs 6-8 weeks' duration for Science & Technology and General category graduates
- Had trained more than 650 potential entrepreneurs.
- Few of the trainees had received National / State level awards for Entrepreneurship.
- Trained more than 890 plus unemployed youth to set up their own Micro / Self-employment ventures.
- Conducted number of Women Entrepreneurship Development Programmes and assisted around more than 300 plus women to establish their own Small and Medium Enterprises (SMEs).

## Programmes for Industry:

EDIC offers customized training programmes as per the need of the organization. Course fee for the same is charged @ Rs. 6000/- per person subject to minimum of Rs. 30,000/- per programme plus service tax as applicable for a duration upto 5 days. The course fee mentioned above doesn't include boarding and lodging charges. However, this course fee include working lunch and two times high tea. Accommodation and catering services, if required by the sponsoring organisation(s) or participants, are provided to the course participants on payment basis. The participants are charged room rent and catering charges as per rules of the institute.

The department also takes up Consultancy projects, Research studies, and Extension services under CSR provision and Writing of training modules for industries.

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## Human Resources @ EDIC

The EDIC department for its training programme besides having multi-faceted capable full time faculty members also invites experts from various reputed institutes like IITs and IIMs along with industrial professionals as per the need basis. The brief profile of full time EDIC faculty members are given alongside.

## Brief Profile of the EDIC Faculty Members



Prof. Suresh Kumar Dhameja (Ph.D, MBA, M.Tech (Civil), B.E.) is Professor in the EDIC Department. He is also former Dean, Academics and International Affairs.

Dr. Dhameja has work experience of 36 Years of Teaching, Training and Research including 3 years of International experience as Faculty Consultant at Colombo Plan Staff College, Philippines. Prof. Dhameja has visited 27 countries (multiple times) for conducting training programs, Chairing Technical sessions, undertaking consultancy assignments and has many honours and distinctions to his credit. Dr. Dhameja has published more than 35 papers in International and National Journals, presented 143 papers in International and National Conferences and has authored and edited 22 books in the area of Environmental Engineering, Environmental Management and Entrepreneurship. He is a member of Task Force on Women and Youth Entrepreneurship at UN-ESCAP Bangkok. His areas of expertise are Entrepreneurship, Small business management, Quality assurance, Achievement Motivation Training, International & national accreditation, and Industry Academia linkages.



Dr Harsh Vardhan Samalia {Ph.D, MBA, B.E. (Mechanical)} is an Associate Professor in the EDIC Department at NITTTR Chandigarh. Dr Samalia has a rich experience of 19+ years in corporate, teaching, research and consultancy domain. Prior to joining NITTTR, Chandigarh

he was associated with IIM Shillong as Associate Professor for 7+ years where he had coordinated various training programmes for the senior and middle level employees of various reputed public and private sector firms which included names like Reserve Bank of India (RBI), Powergrid, IOCL, and PNB Metlife to name a few. His area of Expertise includes Competitive Strategy, Project Management, Digital Transformation and 'Go to Market' Strategy. Dr Samalia also had been visiting / guest faculty to various reputed business schools of the country which includes names like IIM Kashipur, DMI Patna, LM Thapar School of Management to name a few. Dr. Samalia has also to his credit more than 45 research papers in various reputed International and national journals and conferences. He has also guided 6 PhD students in their thesis work and has also served on various committees of national importance.



Dr. Niraj Bala {Ph.D, ME, B.E. (Mechanical)} is Head and Professor of the EDIC department. Her areas of specialization are Entrepreneurship, Patenting, Business Startup, Skill Promotion & Rural Development,

Industrial Coordination, Manufacturing processes and Surface Engineering. She has more than 24 years of teaching experience and has successfully carried out research projects sponsored by government worth Rs. 55 lakhs. She has been awarded one patent. Dr. Bala has co-authored 2 text books and 2 book Chapters. She has to her credit around 100 papers published in Journals and Conference proceedings. She has guided 8 PhD



Er. Amardev Singh {MBA, B. Tech (ECE)} is working as an Assistant Professor in EDIC Department. He is having 14+ years of experience in training, teaching and research. Before joining NITTTR Chandigarh, he had worked with various organizations like Advance Technology, Chandigarh; Dr. B. R. Ambedkar NIT, Jalandhar; GNDU, Jalandhar;; Mahatma Gandhi State Institute of Public Administration Punjab, Chandigarh to name a few.

In 2018, he participated as a presenter and discussant in the Professional Development Workshop held at Chicago, Illinois, USA. His area of expertise includes Achievement Motivation, Entrepreneurship Development, Business Management, Intellectual Property Rights, Technology Adoption & Management; Green Information Technology, and he intensely loves to work for the social causes.