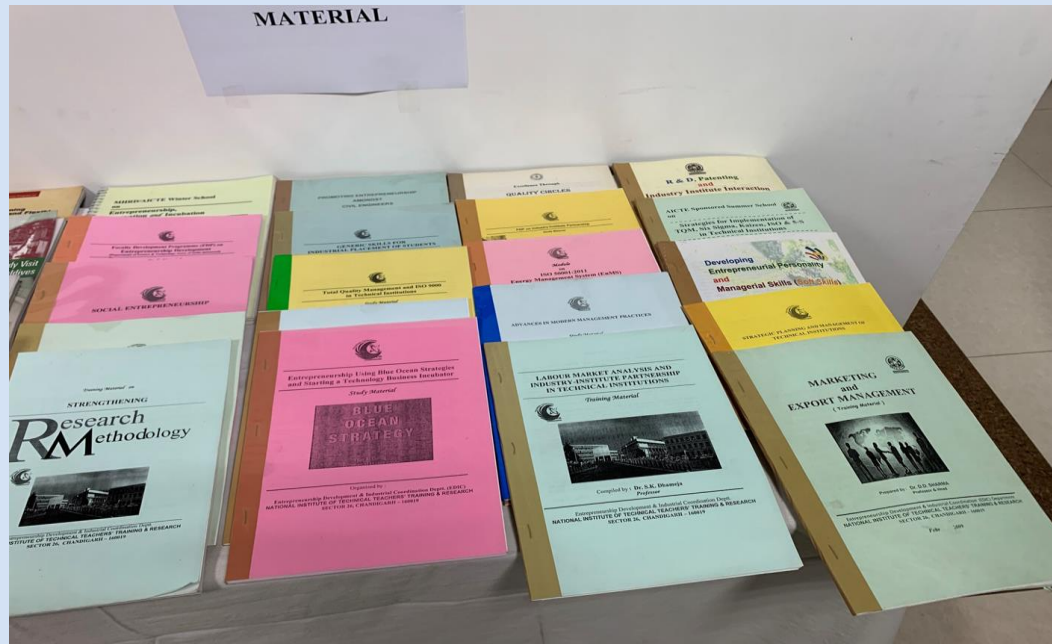


ENTREPRENEURSHIP DEVELOPMENT AND INDUSTRIAL COORDINATION DEPARTMENT



VISION AND MISSION OF THE DEPARTMENT

- VISION: “Excellence in the promotion of entrepreneurship, business management, intellectual property rights, and industry-academia integration”
- MISSION: “To impart education and training to technical teachers, budding entrepreneurs, youth and industry professionals to transform them into effective trainers and business leaders”

**VIRTUAL TOUR OF
ENTREPRENEURSHIP DEVELOPMENT
AND INDUSTRIAL COORDINATION
DEPARTMENT**

ABOUT THE DEPARTMENT

- Established at NITTTR Chandigarh in the year 1983 with a view to promote entrepreneurship and improve industry institute interaction in the technical education system.
- Presently, the department provides service to Engineering Colleges, Polytechnics, Management Institutes of the country, specifically focusing on the Northern Region.
- The department is engaged in training of entrepreneurs, budding entrepreneurs, technical teachers, managers and professionals from industries.
- The department faculty also teaches subjects of Entrepreneurship Development, Total Quality Management, Organizational Behavior, Principles of Management, Technology Management and Research Methodology to our M.E. students of different disciplines

ABOUT THE DEPARTMENT (CONTD...)

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
- Generating instructional material (both print and non – print)
- Assisting in curriculum design and review
- Providing extension services to client
- Undertaking consultancy work in the broad areas of Entrepreneurship, MSME Setup and Management, Industry Academia linkages, Quality Management and Assurance, Intellectual Property Rights and Patenting.

OBJECTIVES OF THE DEPARTMENT

- To promote entrepreneurship and self-employment in the technical institutions of the country viz. Engineering colleges, polytechnics and management institutions.
- To promote and intensify the interaction of the technical institutions with the industry.
- To promote set up of MSMEs and their efficient management.
- To assist different national and state level organizations like MoE, NPIU, EdCIL, AICTE, NSTEDB, State Directorates of Technical Education, State Directorates of Industries, and Technical Institutions through offering of Research & Development and Consultancy services in the field of Entrepreneurship, Quality Management System, Strategic Planning and Industry-Institute Interaction.
- To assist international organizations in terms of the faculty support for their programmes and projects.

Faculty Profile

Name	Highest Qualification	Date of Joining	Research Areas
Dr. SK Dhameja	Ph.D. (Business Management –Women Entrepreneurship)	10.11.1988	Women Entrepreneurship, MSME-setup and management, Human Resource Management, Technical and Vocational education and Training (TVET)
Dr. Niraj Bala	Ph.D Mechanical Engineering	10.08.2020	Entrepreneurship, Patenting, Business Startup, Skill Promotion and Rural Development, Industrial Coordination, Manufacturing processes and Surface Engineering.
Dr. Harsh Vardhan Samalia	Ph.D (Business Management-Strategic Management and IPR)	25.02.2020	Informal Competition, Competitive Strategy, Technology Adoption, Digital Transformation of Organizations, Performance Management, Strategic Management of Intellectual Property Rights
Dr. Hemant Kumar Vinayak	Ph.D (Civil Engineering-Earth Quake Engineering)	19.12.2019	Technical, Rural and Women Entrepreneurship, MSME Set up and Management, Business Startup, Engineering Management, Skills Promotion and Rural Artisans Development, Retail Business Management.
Er. Amardev Singh	MBA (IT-Networking)	17.08.2012	Entrepreneurship Development; Intellectual Property Rights; Marketing Management; Technology Adoption & Management; Green Information Technology

STRENGTH OF THE DEPARTMENT

- Five faculty members in the department (full Strength)
- Multi disciplinary department with faculty from Civil Engineering, Mechanical Engineering, Electronics & Communication Engineering background in addition to MBA and Ph.D in Business Management/Entrepreneurship
- Techno – Managerial capabilities for substantiating ‘Vocal for Local’
- Department’s orientation in tune with recent Govt. of India’s initiatives viz ‘Atamnirbhar Bharat’, ‘Make in India’ and ‘Start-up India’
- Linkages with the Industry
- International exposure of the faculty members
- International linkages of the Faculty

ACHIEVEMENTS

Long Term Programmes

- Delivered the subjects of Entrepreneurship Development, Total Quality Management, Organisational Behaviour, Principles of Management, Technology Management and Research Methodology to our M.Tech. students of different disciplines.
- Conducted 13 Entrepreneurship Development Programs each of 6-8 weeks' duration for Science & Technology and General category graduates
- Trained 503 potential entrepreneurs.
- One of the trainees Mr. Suneel Bakshi got 'Best Science and Technology Entrepreneurs' award (year 2002-03) at the National Level.
- Another trainee Mr. R S Khandwalia got 'Bharti Entrepreneur of the Year' award for the year 2004 at the National Level Instituted by Entrepreneurship Development Institute of India

ACHIEVEMENTS

Long Term Programmes

- Conducted 9 women entrepreneurship development programmes of 4-6 weeks duration each for assisting women to establish their own Small and Medium Enterprises (SMEs).
- Trained 263 women to set up their own SMEs.
- Conducted 14 Employment Generation Programmes under PMRY of 2 weeks duration for unemployed youth to establish their own micro enterprises.
- Trained 713 unemployed youth to set up their own micro self-employment ventures.

ACHIEVEMENTS

– Short term training programmes

Major Areas:

- Employability Skills for Industry 4.0
- Digital Transformation of Business
- Strategic Planning for Entrepreneurship Promotion
- Business Start-up and Social Entrepreneurs
- Entrepreneurship and Start-up Policies 2017
- Intellectual Property Rights – Aspects for Business Start-ups
- Social Entrepreneurship for Technical Entrepreneurs
- Fund Raising for New Business Start-ups
- Adroit Thinking - Concept, Methods and Practice
- Non Engineered Construction-Theory to Practice
- Project Management Skills for Managing Business Ventures

ACHIEVEMENTS

– Short term training programmes

- Management of Small and Medium Enterprises
- Strengthening Industry Academia Integration in Technical Institutions
- Industry Interaction – Industry related phase wise workshop mainly in the areas of Civil, ECE
- Entrepreneurial Opportunity Identification and Project Formulation in Services Sector
- Blue Ocean Strategy – Concept, Principles and Application
- Entrepreneurial Career Orientation for Mechanical Engineering and Allied Disciplines
- Entrepreneurial Opportunity Identification and Project Formulation in Manufacturing Sector
- Entrepreneurial Career Orientation for Electronics and Communication Engineering and Allied Disciplines

ACHIEVEMENTS

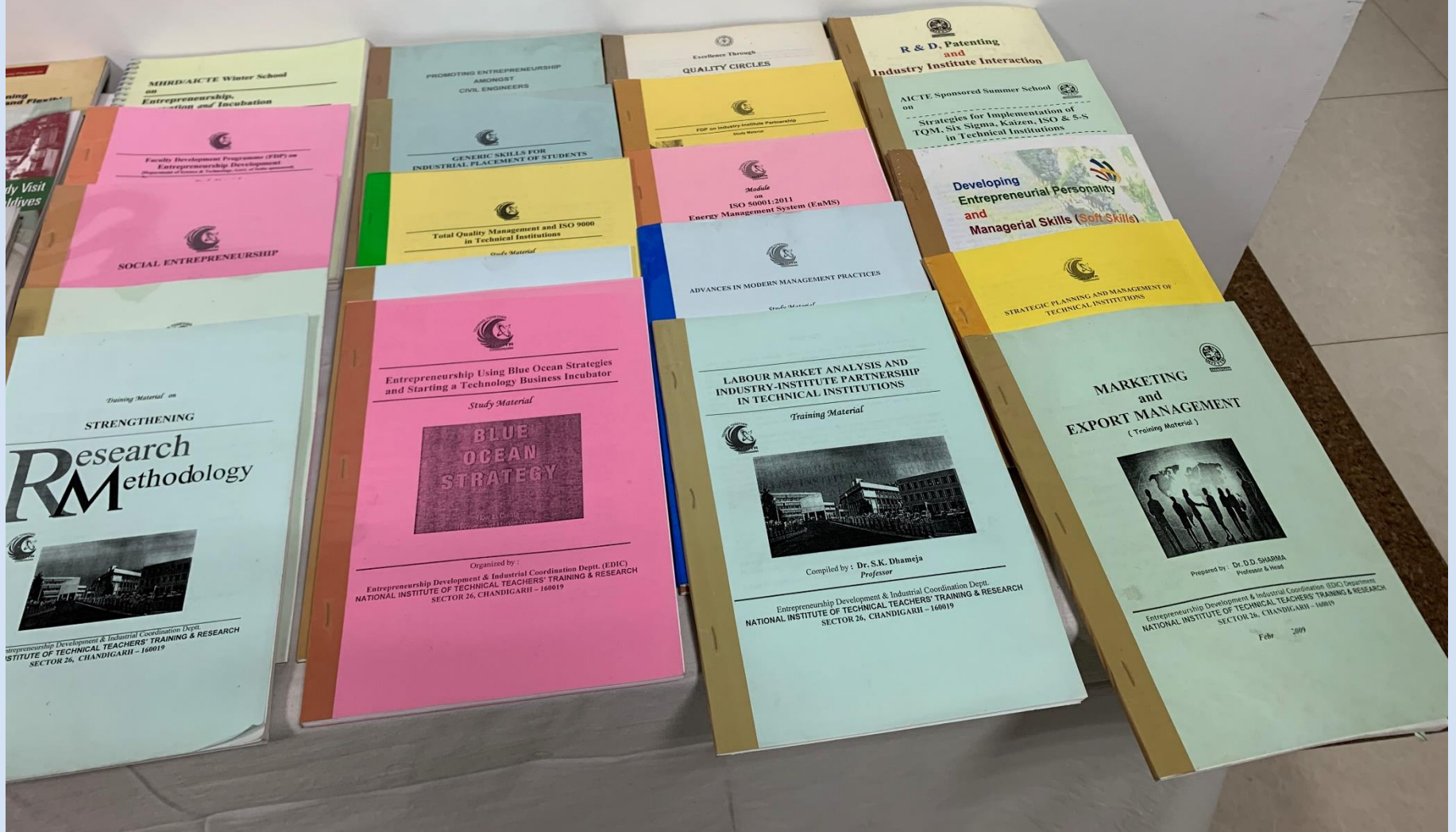
– Short term training programmes

- E-governance and Green Technology Entrepreneurship for Technical Institutions
- Establishment and Management of ED Cells and IIP Cells in Technical Institutions
- Continuing Education Programs for Industry Personnel

SNAPSHOT OF STCs CONDUCTED IN 2016-20

Year	No of programs (Contact Mode)	No of teachers trained	No of programs (ICT Mode)	No of teachers trained
2016-17	07	252	4	656
2017-18	11	363	06	1050
2018-19	14	339	06	683
2019-20	10	186	06	890
2020-21 (up to Nov, 2020)	-	-	27	2062
2016-20 (last 5 years)	42	1140	49	5341

MATERIAL



External faculty involved in Short Term Programs

Name of Expert	Organization	Area of Expertise
Dr. S.N. Rangnekar	Professor, IIT Roorkee	Organisational Behaviour, Human Resource Management, Knowledge Management, Leadership
Dr. Harpreet Singh	Professor IIT Ropar	Mechanical Engineering & Dean (Industrial Consultancy, Sponsored Research & Industry Interaction)
Mr. Paramjit Singh	Principal Director, Regional Centre for Entrepreneurship Development Chandigarh	Skill Development Training Programmes
Dr. Uma Batra	PEC, Chandigarh	Head of Department, Materials and Metallurgical Engineering Department
Dr Nitin	IIM Shillong	Blockchain, IS, Big Data Analytics
Dr Tara Shankar Shaw	IIT Bombay	Economics
Dr Y V R Murthy	NALSAR Hyderabad	Law and Financial Management
Dr Anurag Dugar	Goa Institute of Management, Goa	Marketing Management
Dr Shankar Purbey	Development Management Institute, Patna	Operations Management
Dr Hergovind Singh	MANIT, Bhopal	Technology and Innovation Management, Project Management
Ms Poulami Mitra	Aibono Smart Farming Pvt Ltd	Supply Chain Analytics

Er Ashutosh Dadhich	Technical Lead, Stori Card, Cuauhtemoc, Mexico City, Mexico	Fintech
Dr Rajeshwari Malik Associate Professor	Business Administration & Commerce, Maharaja Surajmal Institute, New Delhi	Business Administration & Commerce,
Er Nitin Rakesh Prasad Founder	GoPrac.com Bangalore	
Mr Vikram Kohli, AVP Product Management	People Strong. Gautam Buddha Nagar, Uttar Pradesh, India	
Dr Vinay Khandpal, Assistant Professor,	School of Business, Univ. of Petroleum & Energy Studies, Dehradun	Business Management
Er Manish Periwal, Founder	ExtraChilly, Hyderabad, Telangana,	Disruptive Technology
Mr Sudhir Bhatia Distt. Co-ordinator (Kangra Chamba)	Himachal Pradesh Kaushal Vikas Nigam, Palampur, Kangra	Employment scheme
Dr Prabhakar bebni ,Chief Operating Officer,	Deen Dayal Upadhyaya Grameen Kaushalya Yojana, Uttarakhand	Employment scheme
Mr Anirudh thakur CEO and founder,	Hagri innovations Pvt Ltd, Majthai Distt – shimla	Innovator
Mr Rajeev Sharma C.E.O,	Soya Kings, Bannmajra, Ropar	Entrepreneur
Mr. Karun Kashmiri CEO,	KK Management Consultants, Chandigarh	Business Management
Dr Rahul Taneja Scientist,	Department of Science and Technology, Government of Haryana. Panchkula	IPR
Ms Suman Gupta Chief Operation Officer	BSC BioNEST Bio-Incubator, Faridabad, Haryana	Bio Incubation

Er Loveleet Koti, Founder	Club Infotech, Pathankot, Punjab	ICT application
Er Shivam Chawla Co-founder	Digital Panda and Prodegins Creatorspace Pvt. Ltd. Dehradun, Uttarakhand	Digital Marketing
Ms Renata Millett Co-Founder	Verth, Jaipur, Rajasthan	Content Marketing
Ms Shreya Kothari Co-Founder	Verth, Jaipur, Rajasthan	Boostrapping
Mr Parivartan Somany, Designated Partner	Thinkonic Exports, Gurugram, Harayana	Rural Entrepreneurship
Dr. Sanjeev Chaddha,	Mahatma Gandhi State Institute of Public Administration Punjab, Chandigarh	Management, Business Plan / Project Report Preparation and Appraisal, Leadership, Economics
Sh. Dinesh Patiyal,	Founder & CEO, HFIL Technologies Ltd.	Entrepreneurship, Leadership, Business Start-up, Information Technology, New Product Development, Pitch Preparation
Sh. Hirdesh Madan	President, TIE Chandigarh, and Mentor, Next Generation Incubation Scheme (NGIS), Mohali	Entrepreneurship, Leadership, Business Scaling, Innovation and Technology Transfer

Sh. Hitesh Kumar Gulati	Change & Organization Development Consultant, Diversity Ace Business Consulting	Change Management, Leadership, Creativity and Innovation
Sh. Joseph Jude	Chief Technology Officer, Net Solutions	Information Technology Infrastructure, Industry Institute Partnership
Sh. Varun Sharma	Advocate and Patent Attorney, Dev-Jure, New Delhi	Intellectual Property Rights, Patent Law and other legal aspects of Businesses
Sh. Parmod Malik,	Coordinator, Centre for IPR Studies, Dept. of Law, BPS Women University, Sonapat (Haryana)	Intellectual Property Rights, Copyrights
Sh. Ravish Kumar	Manager – International Business Development, Signicent Information Solutions	International Business, Management, Intellectual Property Rights
Dr. Kuldeep Singh Nagla	Dr. B.R. Ambedkar NIT Jalandhar (Punjab)	Intellectual Property Rights, New Product / Process Development, Intellectual Property Rights, Technology Transfer
Mr. Sanjiv Gupta	Ex-Chief General Manager, SML ISUZU Ltd.	Industry Institute Partnership, Quality Management, Leadership, Manufacturing Technology
Sh. H.S. Cheema	Managing Director, Cheema Boilers Ltd., Kurali	Leadership, Achievement Motivation, Entrepreneurship, Creativity and Innovation
Sh. Jagpal Singh Bahra	Solution Provider, SAM Automation Technologies Pvt. Ltd.	Automation, Robotics, Industry 4.0

Sh. Amit Das	Director, Disruptian Technologies Private Limited, Zirakpur	Internet of Things (IoT), Leadership, Business Start-up, Achievement Motivation
Er. Liakatbir Singh	Executive Director, PAHAL, Jalandhar, India	Social Entrepreneurship, Organization Management, Team Management
Ankit Chhabra	Founding Team Member, SanjhiSikhiya, India	Social Entrepreneurship, Systems Thinking
Prija Goswami	Business Developer, IT & Farm to Table Food Concept, India	Social Entrepreneurship, Information Technology, Value Creation, Impact / Performance measurement

PhD Produced by Dr S K Dhameja [total till date]

Student	Title of Research work	Year of completion
Hari Pada Das American World University, USA	A critical review of Technical-Vocational Education (TVE) system of Bangladesh and its contribution	2010
Divya Sharma	Impact of Doctrine of Karma in providing Transformational Leadership to the students - A study of selected universities in Delhi – NCR	2021 (expected) Pre-thesis submitted
Shikha Patheja	Relationship of Retention Strategies and Employee Career Stage in Insurance Industry in Delhi-NCR	2021 (expected) Pre-thesis submitted
Savita	Noise Trading in Indian Stock Market: An Empirical Study	2021 (expected) Pre-thesis submitted
Madhulika	A study on job satisfaction among personnel of Bharat Heavy Electrical Ltd.	2021 (expected) Pre-thesis submitted
Shivani Dhand,	Impact of HR Practices on Organizational Performance of Start-ups in Punjab, Haryana and Himachal Pradesh	2021 (expected) Pre-thesis submitted

Total: 6

M.Tech Theses Supervised [Till date]

Name of Student	ME Dissertation	Supervisor
Arjun Shaurya Yadav	A Study on Entrepreneurial Performance and Problems of Women in Uttar Pradesh	Dr. SK Dhameja
B. Pathak	Identification of the Barriers and Prospects of set up of Technical Educational Institutions in the State of Assam	Dr. SK Dhameja
Barun Kumar Yadav	Effect of Self-Learning Modules on the Achievement in Operations Research of Seventh Semester Students of Computer Science and Engineering	Dr. SK Dhameja
Varun Singh	Teachers Burnout in Polytechnic of Uttar Pradesh and Its Analysis	Dr. SK Dhameja
Arvind Singhy	A Comparative Study of Curriculum and Instructional Processes for Entrepreneurship Development in Technical Institutions of Kurukshetra University and Selected Foreign University	Dr. SK Dhameja
Dirender Kumar	To Study the Factors Leading to Success and Failure to Entrepreneurship among the Engineering College Students of Gurgaon	Dr. SK Dhameja
Raj Singh Kadian	Women Entrepreneurship Development in Haryana: An Analysis of Familial, Social and Psychological Dimensions	Dr. DD Sharma
Prem Sagar	Establishing Industry Institute Interaction & Entrepreneurial Development Cells in Technical Institutions-Case Studies of Selected Technical Institutions	Dr. DD Sharma

24-2

Submitted towards partial fulfillment of the requirement for the award of Degree in
M.Tech. in Engineering Education from
Panjab University, Chandigarh

"A STUDY ON ENTREPRENEURIAL PERFORMANCE AND PROBLEMS OF WOMEN IN UTTAR PRADESH"

A THESIS REPORT
Submitted towards partial fulfillment of the requirement for the award of Degree in
M.Tech. in Engineering Education from
Panjab University, Chandigarh

Submitted towards partial fulfillment of the requirement for the award of Degree in
M.Tech. in Engineering Education from
Panjab University, Chandigarh

THESES
Submitted towards partial fulfillment of the requirement for the award of Degree in
M.Tech. in Engineering Education from
Panjab University, Chandigarh

A STUDY ON ENTREPRENEURIAL PERFORMANCE AND PROBLEMS OF WOMEN IN UTTAR PRADESH
PRELIMINARY THESIS
Submitted towards partial fulfillment of the requirement for the award of Degree in
M.Tech. in Engineering Education from
Panjab University, Chandigarh.

Submitted towards partial fulfillment of the requirement for the award of Degree in
M.Tech. in Engineering Education from
Panjab University, Chandigarh

Curriculum for Skill Development Certificate Programme for
Care Giver for Differently abled Children
(Health, Travel, Hospitality and Trade Sector - Level I)

Curriculum for Skill Development Certificate Programme or
Driver-cum-Tour Guide
(Tourism, Travel, Hospitality and Trade Sector - Level I)

WOMEN ENTREPRENEURSHIP DEVELOPMENT IN HARYANA: AN ANALYSIS OF FAMILIAL, SOCIAL AND PSYCHOLOGICAL DIMENSIONS

A THESIS REPORT
SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE DEGREE OF

MASTER OF TECHNOLOGY (ENGINEERING EDUCATION) TO
PANJAB UNIVERSITY, CHANDIGARH

SUBMITTED BY
RAJ SINGH
Registration No. (05 - TTC - 06)

DEPARTMENT OF EDUCATION AND EDUCATIONAL MANAGEMENT
NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH,
CHANDIGARH-160019

"Identification of the Barriers and Prospects of set up of Technical Educational Institutions in the State of Assam"

A THESIS
SUBMITTED TOWARDS PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF DEGREE IN
M.TECH.
IN
ENGINEERING EDUCATION
FROM
PANJAB UNIVERSITY, CHANDIGARH

INVESTIGATOR
D. Pathak
Roll No. 83
Regn. No. 08-TTC-6

SUPERVISOR
Prof. (Dr.) S.K. Dhameja
Professor
EDIC & Head IMGO

DEPARTMENT OF EDUCATION AND EDUCATIONAL MANAGEMENT
NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH
CHANDIGARH - 160019
INDIA

A COMPARATIVE STUDY OF CURRICULUM AND INSTRUCTIONAL PROCESSES FOR ENTREPRENEURSHIP DEVELOPMENT IN TECHNICAL INSTITUTIONS OF KURUKSHETRA UNIVERSITY AND SELECTED FOREIGN UNIVERSITIES

THESES
Submitted towards partial fulfillment of the requirement for the award of Degree in

JOB SATISFACTION OF TEACHERS IN ENGINEERING COLLEGES OF PUNJAB, HARYANA, HIMACHAL PRADESH AND CHANDIGARH

Curriculum for Skill Development Certificate Programme for
Bar Tender
(Tourism, Travel, Hospitality and Trade Sector - Level I)

Curriculum for Skill Development Certificate Programme for
Tour Operator

"TEACHER'S BURNOUT IN POLYTECHNICS OF UTTAR PRADESH AND ITS ANALYSIS"

PRELIMINARY THESIS
Submitted towards partial fulfillment of the requirement for the award of Degree in
M. Tech. in Engineering Education from
Panjab University, Chandigarh.

INVESTIGATOR
Varun Singh, Roll No. 91,
Reg. No. 08 -tte - 12

SUPERVISOR
Dr. S. K. Dhameja,
Prof. & Head IMCO DEPT.

DEPARTMENT OF EDUCATION AND EDUCATIONAL MANAGEMENT
NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
CHANDIGARH - 160019, INDIA.
JUNE- 2011

Curriculum for Post Diploma in
Manager

PhD Produced [by New Faculty from previous organizations]

Dr. Niraj Bala (Co-Supervisor)	Amita Rani	Investigating the chemistry of some ceramic coatings subjected to high temperature corrosion	2018
Dr. Niraj Bala	Amandeep Singh	Development and characterization of stir cast magnesium metal matrix composites	2018
Dr. Niraj Bala (Co-Supervisor)	Shalinder Kaur	Enhancement of Corrosion Resistance of Biomaterials by Surface Modification Techniques	2019
Dr. Niraj Bala (Co-Supervisor)	Sachpreet Aulakh,	Effect of Substrate Preparation Techniques on Mechanical and Tribological Properties of HVOF sprayed WC-Co Coatings	2019
Dr. Niraj Bala (Co-Supervisor)	Sarbjeet Kaur	Investigating the Role of Coatings for Combating the Degradation of Biomaterials	2020
Dr. Niraj Bala (Co-Supervisor)	Gurmail Singh	Investigations on the Hot Corrosion behaviour of HVOF sprayed micro- and nano-composite coatings	2020
Dr Harsh Vardhan Samalia	Rouhin Deb	The Effect of Informal Competition on Formal Firms' Strategic Choices in Emerging Economies	2020
Dr Harsh Vardhan Samalia	Kuldeep Baishya	Technology Adoption at the Bottom of the Pyramid: A Study of Smartphone Adoption in India	2019
Dr Harsh Vardhan Samalia (Co-Supervisor)	Supreet Kanwal	Role of Marketing Intelligence in Brand Positioning of Select Consumer Durables	2018

PhD Produced [by New Faculty from previous organizations]

Dr Harsh Vardhan Samalia (Co-Supervisor)	Gaurav Goyal	Impact of Quality Management and Process Integration on Supply Chain Performance with Reference to Indian Automotive Industry	2018
Dr Harsh Vardhan Samalia (Co-Supervisor)	Ankit Mahindroo	An Integrated Information Systems Framework for Enhancing Reverse Logistics Performance in Supply Chains	2018
Dr Harsh Vardhan Samalia (Co-Supervisor)	Devesh Kumar	An Integrated Conceptual Framework of Cloud Computing Adoption in Small and Medium-sized Enterprises in India	2017
Dr Hemant Kumar Vinayak (Co-Supervisor)	Anshul Sharma	Damage Assessment in Bridges using vibration methods	Ongoing
Dr Hemant Kumar Vinayak	Suresh Kumar Walia	Structural Health Assessment of Bridges using modal parameters	2016
Dr Hemant Kumar Vinayak	R N P Singh	Comparative study of Seismic Design Methods for Bridge Piers	2016
Dr Hemant Kumar Vinayak (Co-Supervisor)	Vandana Sharma	Improving durability of adobe walls for enhancing vernacular architecture	2016
Total: 16			

Instructional Materials Developed, Print and Non-Print

Author(s)	Title	Publisher	Year of publication
Books			
An-Inter TTTI Project	Handbook on Industry-Institute Interaction	Him Khand Printers Chandigarh	1997
Dr. Suresh Kumar Dhameja	Book on Environmental Engineering and Management	SK Kataria & Sons, Delhi,	2004-05
Dr. Suresh Kumar Dhameja	Book on Society and Environment	SK Kataria & Sons, Delhi,	2005-06
Dr. Suresh Kumar Dhameja	Environmental Studies	SK Kataria & Sons, Delhi,	2005
Dr. Suresh Kumar Dhameja	Environmental Science	SK Kataria & Sons, Delhi,	2005
Dr. Suresh Kumar Dhameja	Environmental Science and Engineering	SK Kataria & Sons, Delhi,	2005
Dr. Suresh Kumar Dhameja	Book on Women Entrepreneurs : Opportunities, Performance, Problems	Deep and Deep Publications Pvt. Ltd., Jaipur,	2002
Dr. Suresh Kumar Dhameja	Book on Industrial Psychology	SK Kataria & Sons, Delhi,	2009
Dr. Suresh Kumar Dhameja	Book on Industrial Sociology	SK Kataria & Sons, Delhi,	2009
Dr DD Sharma Dr JS Saini	Entrepreneurship in Hosiery Industry	Northern Book Centre New Delhi	2001

Instructional Materials developed, Print and non-print

Author(s)	Title	Publisher	Year of publication
Books			
Dr DD Sharma	Marketing Research- Principles, Applications and Cases	Sultan Chand and Sons. New Delhi	1988
Dr DD Sharma	Total Quality Management- Principles, Practice and Cases	Sultan Chand and Sons. New Delhi	2008
Dr DD Sharma Dr JS Saini	The Enterprise Edge	Abhishek Publications Chandigarh / New Delhi	2002
Dr JS Saini	Entrepreneurship Development - Programmes and Practices	Deep and Deep Publications Pvt. Ltd., Jaipur, India	1996
Dr JS Saini, Dr. BR Gurjar, Prof BS Rathore	Enterprise Support System in India	Wheeler Publishing New Delhi	2001
Prof BS Rathore, Dr JS Saini (Editors)	Handbook on Entrepreneurship Development	Aapga Publications Panchkula	1997
Dr JS Saini, Dr. BR Gurjar (Editors)	Entrepreneurship and education- Challenges and Strategies	Rawat Publications Jaipur	2001
Dr. Suresh Kumar Dhameja (Editor)	Book on New-Initiatives in Entrepreneurship and Industry-Institute Interface	Abhishek Publications Chandigarh / New Delhi	2013
Dr. Suresh Kumar Dhameja (Editor)	Book on Global Trends in Entrepreneurship	Abhishek Publications Chandigarh / New Delhi	2015
Dr DD Sharma, Dr SK Dhameja (Editors)	Book on Green Entrepreneurship	Abhishek Publications Chandigarh / New Delhi	2005

Instructional materials developed, Print and non-print

Author(s)	Title	Publisher	Year of publication
Books			
Prof BS Rathore, Dr DD Sharma, Dr SK Dhameja (Editors)	Book on Entrepreneurship in Knowledge Economy	Abhishek Publications Chandigarh / New Delhi	2005
Dr DD Sharma, Dr SK Dhameja (Editors)	Book on Indian Entrepreneurship	Abhishek Publications Chandigarh / New Delhi	2002
Dr DD Sharma, Dr SK Dhameja (Editors)	Book on Entrepreneurial Development in India	Abhishek Publications Chandigarh / New Delhi	2002
Dr DD Sharma, Dr SK Dhameja (Editors)	Book on Women and Rural Entrepreneurship in India	Abhishek Publications Chandigarh / New Delhi	2002
Dr DD Sharma, Dr SK Dhameja (Editors)	Book on Advances on frontiers of Entrepreneurship-From Research to Results	Abhishek Publications Chandigarh / New Delhi	2010
Dr DD Sharma, Dr SK Dhameja (Editors)	Book on Women Entrepreneurship and Enterprise Management	Abhishek Publications Chandigarh / New Delhi	2010
Prof BS Rathore, Dr SK Dhameja (Editors)	Book on Entrepreneurship in 21st Century	Rawat Publications Jaipur	2000
Dr. Suresh Kumar Dhameja (Co-editor)	Book on Entrepreneurship, Strategic Management and Globalization	Rawat Publications Jaipur	1999
Dr JS Saini, Dr. Suresh Kumar Dhameja (Editor)	Book on Entrepreneurship and Small Business	Rawat Publications Jaipur	1998
Dr. Niraj Bala	Elements of Mechanical Engineering,	Dhanpat Rai Publishing Company	2016
Dr. Niraj Bala and Avtar Singh	Engineering Materials and Metallurgy	Dhanpat Rai Publishing Company	2014



A HANDBOOK OF ENTREPRENEURSHIP

HANDBOOK ON INDUSTRY-INSTITUTE INTERACTION



TECHNICAL TEACHERS TRAINING INSTITUTE, DELHI

Women Entrepreneurs

- Opportunities
- Performance
- Problems

S.K. Dhameja

Enterprise Support System in India

J.S. Saini
B.R. Gurjar
B.S. Rathore

SOCIETY AND Environment

As per AMIE Section 'A' New Syllabus w.e.l. 2005

Dr. Suresh K. Dhameja

ENTREPRENEURSHIP in the 21st century

Edited by
B.S. Rathore
S.K. Dhameja

Industrial Psychology



ENTREPRENEURSHIP AND SMALL BUSINESS

MARKETING RESEARCH
PRINCIPLES, APPLICATIONS & CASES

Entrepreneurship in Hosiery Industry

ENTREPRENEURSHIP DEVELOPMENT PROGRAMMES AND PRACTICES

Dr. Dhruv Dev Sharma
Dr. Suresh Kumar Dhameja

WOMEN Entrepreneurship & Enterprise

Environmental Engineering and Management

ENVIRONMENTAL SCIENCE

ENTREPRENEURIAL DEVELOPMENT IN INDIA

ENTREPRENEURSHIP IN KNOWLEDGE ECONOMY

ADVANCES ON FRONTIERS OF

GREEN ENTREPRENEURSHIP

Entrepreneurship and Education
Challenges & Strategies

TOTAL QUALITY MANAGEMENT
Principles, Practice and Cases



Dr. D D Sharma

ENTREPRENEURSHIP IN KNOWLEDGE ECONOMY

Industrial Sociology

WOMEN & RURAL ENTREPRENEURSHIP IN INDIA

Dr. D D Sharma
S.K. Dhameja

INDIAN ENTREPRENEURSHIP

THEORY & PRACTICE

Dr. D. D. SHARMA
Dr. S. K. DHAMEJA

Environmental Studies
Environment Studies

Dr. Suresh K. I

International Books (Co-edited by Dr. Suresh Kumar Dhameja)

Book on Change Management for Human Resources Development in TVET systems	CPSC Manila Philippines	2007
Book on Management Excellence through Technology Leadership	CPSC Manila Philippines	2007
Book on Developing e-Learning Contents	CPSC Manila Philippines & ADBI Japan	2008
Book on TVET for the Ageing Society	CPSC Manila Philippines	2007
Book on Unity in Diversity through HRD in Asia and the Pacific Countries	CPSC Manila Philippines	2006
Book on Reciprocity in Representation, Recognition and Respect: CPSC Plan for Reform	CPSC Manila Philippines	2006
Book on SME Development and Regional Economic Integration	CPSC Manila Philippines & ADBI Japan	2009
Book on Non-Traditional Approaches to TET (Contributed 2 papers)	CPSC Manila Philippines	2000-01
Sustainable Development through Skilled Knowledge Based Workforce (Contributed a paper)	UNESCO-UNEVOC Springer Publication	2009

International Course Material Booklets Edited by Dr S K Dhameja for CPSC Manila Philippines	
Competency Based Training System for TVET Institutions	2006
Entrepreneurship Development in TVET	2006
Ubiquitous Technology in Education and Training	2006
TVET for Sustainable Development: Opportunities and Challenges	2006
Change Management for Human Resources Development in TVET System	2007
Competence Building in APACC Accreditation	2007
Blue Ocean Strategies for HRD Systems	2007
Poverty Alleviation through Promotion of Entrepreneurship	2008
Integrating ICT in TVET	2008
TVET for Sustainable Development and Social Equity	2008
Non-Technical Competencies for Technicians	2005
Research and Survey in TVET	2006
Designing open and flexible learning systems	2006
Competency Based Training	2006
Management of TVET programs and institutions	2006
Accreditation and Certification in TVET	2007
TVET: A Tool for promoting Entrepreneurship	2007
Labour Market Analysis and Needs Assessment in TVET	2007
Industry Institute linkages for TVET	2007
Support for strategic planning for TVET Institutions	2007
Competency-Based Curriculum Development	2008
Repositioning TVET Institutions through Knowledge Management	2008

International Course Material Booklets Edited by Dr S K Dhameja

Training Needs Assessment	CPSC Manila Philippines	2008
Accreditation and Certification of TVET Institutions	CPSC Manila Philippines	2008
Competency Based Education and Training	CPSC Manila Philippines	2008
APACC Accreditation of TVET Institutions in Sri Lanka	CPSC Manila Philippines	2008
Career Guidance and Counseling for TVET	CPSC Manila Philippines	2008
TVET for Sustainable and Inclusive Development	CPSC Manila Philippines & NITTTR Chandigarh	2013
Strategic Planning of TVET Institutions	CPSC Manila Philippines	2013
Entrepreneurship Education in TVET	CPSC Manila Philippines	2014
Blue Ocean Strategy for Technical and Vocational Education and Training	CPSC Manila Philippines & NITTTR Chandigarh	2015
Entrepreneurship and Management in TVET	CPSC Manila Philippines	2015
Skills Development for Poverty Alleviation	CPSC Manila Philippines & NITTTR Chandigarh	2016
Special Young Business leaders program on Socially Responsible Business	UNESCAP Bangkok CPSC Manila Philippines & NITTTR Chandigarh	2016
TVET for Sustainable Development	CPSC Manila Philippines	2016
Strengthening of TVET Systems: Linkage with the Industries”	CPSC Manila Philippines	2017
Entrepreneurship Development in TVET	CPSC Manila Philippines	2018
Entrepreneurship in TVET	CPSC Manila Philippines & NITTTR Chandigarh	2019



Program on
ch and Survey
chnical Vocational
Education and Training

Customized Program on
Training for Effective
Management of TVET
Institutions

MANAGEMENT
OF TVET PROGRAMS

In-Country Program on
Competency-Based Training

ENTREPRENEURSHIP
TVET

Regional Program on
Competency-Based Training System
for TVET Institutions

Regional Program on
Integrating ICT with
TVET

Regional Program on
TVET
for Sustainable
Development

Blue Ocean Strategy
for HRD Systems

Day
EDUCATION

TEACHER'S DAY 2006
TRAINING FOR GLOBAL CHANGE

Workshop on
APACC Accreditation of
TVET Institutions

International Conference
Change Management Leadership

In-Country Program on
Repositioning TVET Institutions
through Knowledge Management

Technical Competencies
of Technicians

Developing TVET
Quality Assurance System

Sustainable
Development
Technical Education (CPSC) and
Teachers' Training and Research



In-Country Program on
Support for Strategic Planning
for TVET Institutions
November 01 - 07, 2007, Kabul, Afghanistan

Conducted by
Inter-Governmental International Organization
COLOMBO PLAN STAFF COLLEGE FOR TECHNIGIAN EDUCATION
for Human Resources Development in Asia and the Pacific Region

In collaboration with
MINISTRY OF LABOUR, SOCIAL AFFAIRS,
MARTYRS AND DISABLED (MoLSAMD), Afghanistan

PROGRAM BOOK and COURSE MATERIALS

IN-COUNTRY PROGRAM ON
Blue Ocean Strategy
FOR TECHNICAL AND VOCATIONAL
EDUCATION AND TRAINING
(TVET)

Forum of CPSC
with the Institute of
Technical Education
and Research

Program Book and Course Materials

Strategic Planning of
TVET Institutions

MISSION STATEMENT
18-19 February 2008
Colombo Plan Staff College for Technicians
Education and Research
Colombo, Sri Lanka
http://www.cpsc.org

TVET: A Tool for Promoting
Entrepreneurship

In-Country Program on
TVET: A Tool for Promoting
Entrepreneurship

Support for Technical Education
Development in Sri Lanka
2007-2008
Colombo Plan Staff College for Technicians
Education and Research

COMPETENCY-BASED
TRAINING AND ASSESSMENT

Modules: The faculty / Team of Dr. Suresh Kumar Dhameja / Er. Amardev Singh has prepared more than 50 modules on various subjects of Entrepreneurship Management, TQM, MIS, KMS, Six Sigma, ISO 50001:2011 Energy Management Systems, Intellectual Property Rights etc. between year 2014-2020

Non Print : Video Films [The department has prepared a series of lecture based video films on different topics of entrepreneurship, e-governance, eco-preneurship and green IT, NBA Accreditation, Strategic Planning and Management, Technology Management, and Quality Assurance.(46 video films)]

Title

- | | |
|---|---|
| 1. Need and Philosophy of Entrepreneurship | 17. Effective HR Management Practices in Business |
| 2. Youth Entrepreneurship | 18. Financial Literacy for Entrepreneurs |
| 3. Entrepreneurial Support System at National, State and District Level | 19. Business Plan Formulation |
| 4. Introduction to Marketing | 20. Management of Technology and Innovation |
| 5. Finance for Non-Finance Persons | 21. Technology Strategy of Multinational Companies |
| 6. Understanding blocks in becoming Entrepreneurs | 22. Schemes of NABARD for Entrepreneurs |
| 7. Motivation for starting business | 23. Appraisal of Business Plan |
| 8. Schemes of assistance by SIDBI for Entrepreneurs | 24. Need and Importance of Effective Business Communication |
| 9. Intellectual Property Rights for Entrepreneurs | 25. Technology Management – An Introduction |
| 10. Consideration for Product Selection | 26. Technology Adoption |
| 11. Leadership Skills for Entrepreneurs | 27. Process of Planning in context of Technology |
| 12. Management of Human Resources | 28. Intellectual Property Rights |
| 13. Social Entrepreneurship : A Conceptual Framework | 29. Technology Management in Context of Entrepreneurship |
| 14. Recent Innovations in Technology and its Impacts | 30. Organisation Technology Strategy |
| 15. Social Entrepreneurship as an Emerging Field | |
| 16. Opportunities in Green Business | |

Title

31. Business Model Approach for Technology Transfer
32. Technology Transfer
33. Technology Management and Innovation
34. Significance of Innovation in Creating Value
35. ICT Knowledge management with emphasis to Educational Institutions – A Practical Interaction
36. Leveraging Technology for Offering Solutions to Niche Markets – An Experiential Sharing
37. Technology Acquisition and Exploitation
38. Green Information Technology
39. E-governance in Technical Institutions
40. Self Esteem & its Role in Teachers Effectiveness
41. Business Incubation for Effective Industry-Institute Partnership
42. Organisational Communication – Concept & Importance
43. Strategic Organisational Communication for Institutional Excellence
44. Role of DST in Promoting Entrepreneurship
45. Professional Ethics
46. Generating Ideas

Total: 46 (Last 5 years)

Videos Films Prepared before Year 2014

These comprise of the videos prepared by the department. Some are:

- Face to Face with Entrepreneurs Part-I & II
- Marketing Management.
- Career Opportunities for Engineering Diploma Holders.
- Technical Education and Career Opportunities for Women.
- Self-Analysis through Johari Window.
- Self Analysis through life scripts/positions.
- Intrapreneuring and Entrepreneurship
- Transactional Analysis Part-I & II
- Time Management Part-I,II & III.
- Marketing Strategies Part-I, II, III & IV
- Be an Entrepreneur
- Job Avenues through Career Opportunities Fairs
- Creativity and Problem Solving Part-I, II & III
- Need for Promotion of Entrepreneurship
- Communication Part-I, II & III
- Motivation Part-I, II & III
- Stress Management

No. of Curriculums Designed (Till Date)

Title	Beneficiary
Diploma Programme in Civil Engineering (specialisation in Highway Engineering) for the state of Haryana	Haryana State
Curriculum workshop for revising/designing the contents of subjects for 47 diploma programmes for Haryana State and Civil Engg. Diploma programmes for Jammu and Kashmir, Punjab, Uttarakhand and Himachal Pradesh states.	Haryana State, Jammu and Kashmir, Punjab, Uttarakhand and Himachal Pradesh states.
Diploma Programme in Civil Engineering for the state of Punjab	Punjab
Skill Development Certificate programme for Front Office Assistant (Tourism, Travel, Hospitality and Trade Sector Level II)	National Skills Development Corporation
Skill Development Certificate programme on Head Cook (Tourism, Travel, Hospitality and Trade Sector Level II)	National Skills Development Corporation
Skill Development Certificate programme on House Keeping for Room Attendant(Tourism, Travel, Hospitality and Trade Sector Level I)	National Skills Development Corporation
Skill Development Certificate programme Tour Salesman (Tourism, Travel, Hospitality and Trade Sector Level II)	National Skills Development Corporation
Skill Development Certificate programme in Tour Guide for Domestic Tourists (Tourism, Travel, Hospitality and Trade Sector Level II)	National Skills Development Corporation
Skill Development Certificate programme for Receptionist and Information Assistant (Tourism, Travel, Hospitality and Trade Sector Level I)	National Skills Development Corporation
PG Diploma in Management and Entrepreneurship	NITTTR Chandigarh
PG Diploma in Managing Online Platform based Business	NITTTR Chandigarh
MBA in Rural Entrepreneurship	NITTTR Chandigarh
MBA in Infrastructure Management	NITTTR Chandigarh

2/24-0

Curriculum for
Skill Development Certificate Programme
for
Care Giver for Differently abled Children
[Tourism, Travel, Hospitality and Trade Sector - Level II]

Curriculum for
Skill Development Certificate Programme
for
Driver-cum-Tour Guide

Curriculum for
Skill Development Certificate Programme
for
Bar Tender
[Tourism, Travel, Hospitality and Trade Sector - Level I]

Curriculum for
Skill Development Certificate Programme
for
Tour Operator

Curriculum for
Skill Development Certificate Programme
for
Household Child Care
[Tourism, Travel, Hospitality and Trade Sector - Level II]

Curriculum for
Skill Development Certificate Programme
for
Tour Coordinator
[Tourism, Travel, Hospitality and Trade Sector - Level II]

Curriculum
for
Skill Development Certificate Program
in
Tour Salesman
[Tourism, Travel, Hospitality and Trade Sector - Level I]

Curriculum for
Skill Development Certificate Programme
for
Accommodation Assistant

Curriculum for
Skill Development Certificate Programme
for
Care Giver for Pre-School Children
[Tourism, Travel, Hospitality and Trade Sector - Level I]



Prepared by
National Institute of Technical Teachers Training and Research
Sector 26, Chandigarh 160 019

October 2011

Curriculum for
Skill Development Certificate Programme
for
Hotel Billing Clerk
[Tourism, Travel, Hospitality and Trade Sector - Level II]

Curriculum for
Skill Development Certificate Programme
for
Front Office Assistant
[Tourism, Travel, Hospitality and Trade Sector - Level II]

Curriculum for
Skill Development Certificate Programme
for
Tour Office Assistant
[Tourism, Travel, Hospitality and Trade Sector - Level I]

Curriculum for
Skill Development Certificate Programme
On
Housekeeping for Room Attendant

Curriculum for
Skill Development Certificate Programme
for
Reservation Assistant and Telephone Assistant
[Tourism, Travel, Hospitality and Trade Sector - Level I]



Prepared by
National Institute of Technical Teachers' Training & Research
Sector 26, Chandigarh - 160019

October, 2010



Prepared by
Curriculum Development Centre
Technical Teachers' Training Institute,
Sector 26, Chandigarh-160 019
Collaboration with

Directorate of Technical Education, HP
Jalandhar
October, 1991

Research Papers/Patents/ Scopus Index/ Google Scholar Index (Till Date)

Patents Granted=01 Filed=			
Team/Faculty Name	Patent Description	Awarded	Filed
Niraj Bala	Erosion-corrosion resistant cold spray coatings for boilers Ni-20CrTiCRe	01	

Research Papers Published					
Faculty Name	No of research Papers			Web of Science Index	Google Scholar Index
	SCI	SCOPUS	Others		
Dr. Suresh Kumar Dhameja		02	28 (UGC Care)		h-index is 14 and i10-index is 19
Dr. Niraj Bala	37		97		h index-12
Dr. Harsh Vardhan Samalia		12	07		h-index = 7
Dr. Hemant Kumar Vinayak	05	05	09	07	h-index 4 i10-index 10
Er. Amardev Singh			05		
Total	37	19	146		

Research and Development Studies

The department conducts 2 – 3 research studies every year in the area of entrepreneurship development and Industry-Institute Interaction. Some of the R&D Studies conducted are:

- Diagnostic studies of 08 Small Scale Industries (SSIs) for their modernization and expansion.
- Energy conservation practices of 04 medium and Small Scale Units of Chandigarh with a view to suggest energy conservation measures. As a result of the implementation of the recommendations, energy savings of 20-25% were affected in these units.
- Identification of Self Employment Opportunities in North Indian states
- Tracer Study of Polytechnic Pass outs in the northern region
- Comparative Study of Competencies of Male and Female entrepreneurs of Panjab, Haryana and Delhi
- Case Studies of Entrepreneurs (males and females)
- Entrepreneurial Opportunities in Different Sectors
- Status of Entrepreneurship Development and Industry-Institute Interaction in different states of India
- Comparative Study on Entrepreneurship in Hosiery Industry in Ludhiana (Punjab) and Tirupur (Tamilnadu)
- SWOT analysis of the Govt. Polytechnics of the State of Haryana
- Current Employment Status and job opportunities for Polytechnic Pass outs of J& K State
- Status Study of Industry-Institute Interaction at Project Polytechnics of J&K State
- State of the Art Study on Industry-Institute Interaction (U.P. State)
- Impact of various Assistance Schemes on Technical Entrepreneurs
- Impact of MoU Between DTEIT Punjab, ITI Rajpura and MOI Engineering Limited, Mohali on ITI Rajpura – A Case Study
- Impact Assessment of Entrepreneurship Awareness camps in Himachal Pradesh

Consultancy Projects (Last 15 years)

PI/Team	Title of Project	Client	Year of grant of project
Dr. Suresh Kumar Dhameja	Training of faculty and officials under Technical Education Quality Improvement Program (Phase II)	NPIU	2010-16
Dr. Suresh Kumar Dhameja & Er. Amardev Singh	Training of faculty and officials under Further Education Leadership Development Program	UKIERI-AICTE	2014-16
Dr. Suresh Kumar Dhameja (Coordinator for NITTTR Chandigarh)	Quality Improvement Program (QIP) scheme for Polytechnics	AICTE	2017-19
Dr. Suresh Kumar Dhameja (Mentor and Performance Auditor)	Technical Education Quality Improvement Programme - Phase II and Phase III	NPIU	2010-till date
Dr. Suresh Kumar Dhameja (PI)	Performance Audit for CTOSS and CITROP Programmes	Department of IT Chandigarh Administration, India	2012-13

Contribution in Extension Services by Dr S K Dhameja

Name of Project	Beneficiary	Year
Providing Assistance to MoE, AICTE, NPIU, DTE, BTE, Engineering Colleges, Polytechnics, Industries and other Institutions / organizations in areas of Industry-Institute Interaction and ED	All states	2005 onwards
Mentor and Performance Auditor under World Bank Assisted Project TEQIP-II and III	Engineering Colleges in 10 states of India	2010 onwards
Swachhta Ranking Inspection	AICTE	2019
Member, BOG (UGC nominee)	V.R. Siddhartha Engineering College (Autonomous) Vijayawada	2019 Onwards
Working Integrated Learning Programme (WILP) offered by BITS, Pilani (Rajasthan)	UGC (AICTE Nominee)	2019
Member, AICTE Expert Valuation Committee (EVC)	Engineering Colleges and Polytechnics in different States	2005 onwards
Conduct of Training Programme in Asia Pacific countries	Engineering Colleges Polytechnics and Management Institutions	2005 Onwards
Lead Accreditor, APACC, NBA, NAAC	Institutes, Universities in India and Abroad	2008 Onwards

Contribution in Extension Services by Er Amardev Singh

Name of Project	Beneficiary	Year
Providing Assistance to Engineering Colleges, Polytechnics, Industries and other Institutions / organizations in the areas of Industry-Institute Interaction, Entrepreneurship Development, and IPR	All states	2014 & onwards
Teaching the subject of Research Methodology-I (M. Arch-105)	Punjab Institute of Technology, Khunimajra Mohali	2014
Participation in the Meetings of Board of Studies / Board of Directors / Affiliation and Accreditation Committee of various Institute(s) / Bodies	PIT , Khunimajra Mohali / The Punjab State Board of Technical Education and Industrial Training, Chandigarh	2014 & onwards
Coordination / Observation and ensuring smooth conduct of the Recruitment Tests / Promotional Test(s) /University Examinations	Syndicate Bank / Subordinate SSB Board, Punjab / AICTE / The Punjab Urban Planning and Development Authority / Samagra Shiksha, Chandigarh (Chandigarh Admn.)	2014 & onwards
Representation / Participation in the Workshops / Conferences / Programmes	NITTTR, Chandigarh / AICTE / Haryana State Board of Technical Education, Panchkula / Polytechnics & Engg. Colleges	2016 & onwards
Chairing the session(s) / Participation as a Panelist / Member of the Jury for Conference(s) / Panel Discussion(s) / Contest(s)	University Business School, Panjab University, Chandigarh / / SVIET, Banur (Punjab) / BFGI, Bathinda	2018
Liaising and Assistance in smooth conduct of Workshops / Flagship Events of different organizations / Bodies	PAHAL, Jalandhar / Schools in Chandigarh / Chandigarh Angels Network / NITTTR, Chandigarh /	2018

Conferences organized @ NITTTR Chandigarh

Title	Description
Conference on Re-engineering Polytechnic education	16-17 July, 98
National Conference on Re-engineering Polytechnic education	12 Feb., 99
National Conference on Frontiers of Entrepreneurship – From Research to Results	17-19 Nov. 08
National conference on ‘new initiatives in entrepreneurship & industry institute interface’	16-17 Sept 2009
National Conference on “ Entrepreneurial Innovations: Case Studies of Entrepreneurs, Incubators, Incubatees and Parks”	9-10 Nov 2010
National Conference on Dynamics of Entrepreneurship Development	21-22 Nov. 13
National Conference on Global Trends in Entrepreneurship	27-28 Nov 2014
International Seminar on Issues, Challenges and Future Directions in TVET Sector	12 Feb 2015
International Conference on Sustainable Skills Development: Challenges and Future Perspectives	18-19 Feb 2016
UNESCAP-CPSC Special Young Business leaders program on Socially Responsible Business (International)	20 Feb 2016
Conference on Triggering Entrepreneurship Amongst Aspiring Minds (TEAM)	17 Sept 2017
International Conference on Skilling for Self Employment	21-22 Feb 2019
Conference on Need of Entrepreneurship Development	17 Dec 2019

Seminars Organized @ NITTTR Chandigarh

Title	Description
Regional seminar on Entrepreneurship	19-20 Nov. 1991
Regional Seminar on Entrepreneurship Development and Management of SSIs	19-20 Nov. 1992
National Seminar on Intrapreneuring and Entrepreneurship	25-26 Nov.93
National Seminar on Research and Innovations in Indian Industry	8-9 Dec. 1994
National Seminar on Industry Institute Partnership and Small Business Development	6-7 Sept, 95
National Seminar on Industry-Institute Interaction and Small business Development	5-6 Dec. 96
Seminar on TQM and ISO 9000	17 March 97
National Seminar on Entrepreneurship Development and Small Business Development	21-22 Aug. 97
National Seminar on Entrepreneurship in 21 st Century	19-20 Nov. 98
National Seminar on Gender Sensitivity – promoting participation of women in Technical Education & Industry	20-21 Jan, 2000
National Seminar on ‘India towards entrepreneurial society - retrospection introspection & protospection’	14-15 Nov, 2000

Seminars Organized @ NITTTR Chandigarh

Title	Description
Seminar on Emerging entrepreneurial opportunities in business sector	15 Sept, 2001
National seminar on 'entrepreneurship in emerging areas	10-11 Oct, 2002
Seminar on skill development & training for sustainable small & medium enterprises in collaboration with ILO	1 st Mar, 2002
National seminar on frontiers of green entrepreneurship	14-15 Nov, 2002
National seminar on entrepreneur in knowledge economy	13-14 Nov 2003
International Seminar on Current Practices and Emerging Issues of Sustainable Development in TVET	30 May 2013
International Seminar on Issues, Challenges and Future Directions in TVET Sector	12 Feb 2015

Collaborative Programmes by EDIC

Year	Programme Title	Duration
2018-19	International Regional Programme on Entrepreneurship in Technical and Vocational Education and Training Conducted jointly by Colombo Plan Staff College Manila, Phillipines	18-22 February,2019
2016-17	FDP on Business Start-up and Social Entrepreneurship(NSTEDB, DST, Govt of India, New Delhi Sponsored)	19-30 September,2016
2015-16	CPSC-NITTR Regional Programme on Skills Development for Poverty Alleviation at NITTTR, Chandigarh	15-17 February,2016
	UNESCAP-EBAC-CPSC-NITTTR Young Business Programme on Socially Responsible Business at NITTTR, Chandigarh	19-20 February,2016
	AICTE/UKIERI Further Education Leadership Programme (Cohort II)-Workshop III	12-14 October,2015
	AICTE/UKIERI Further Education Leadership Development Programme-Assessment Workshop(Cohort I)-Workshop IV	15-16 October,2015
	AICTE/UKIERI Further Education Leadership Development Programme-Assessment Workshop(Cohort II)-Workshop IV	17-18 March,2016
	Faculty Development Programme on /Innovation, Youth and Social Entrepreneurship (NSTEDB,DST, Govt of India, New Delhi sponsored)	18-29 January,2016
2014-15	CPSC-Manila- NITTTR, Chandigarh in country Programme on Blue Ocean Strategies for TVET Institutions at NITTTR, Chandigarh	09-13 February, 2015
	AICTE/UKIERI Further Education Leadership Programme (Cohort I)-Workshop I	30 April-02 May,2014
	AICTE/UKIERI Further Education Leadership Programme (Cohort II)-Workshop II	19-21 May,2014
	AICTE/UKIERI Further Education Leadership Development Programme (Cohort I)-Workshop III	19-21 January,2015
	AICTE/UKIERI Further Education Leadership Development Programme-Assessment Workshop(Cohort III)-Workshop I	21-23 January,2015
	AICTE/UKIERI Further Education Leadership Development Programme-Assessment Workshop(Cohort III)-Workshop II	02-04 March, 2015
	Faculty Development Programme in Entrepreneurship Development (NSTEDB,DST, Govt of India, New Delhi sponsored)	15-26 September,2014

Industry Linkage: Last Five years only for Training Programs

S N	Contact Personnel	Name of Organization
1	Er Ashutosh Dadhich Technical Lead, Stori Card, Cuauhtemoc, Mexico City	Er Ashutosh Dadhich Technical Lead, Stori Card, Cuauhtemoc, Mexico City, Mexico
2	Ms Poulami Mitra	Aibono Smart Farming Pvt Ltd
3	Er. Nitin Rakesh Prasad Founder	GoPrac.com Bangalore
4	Er Manish Periwal, Founder	ExtraChilly, Hyderabad, Telangana,
5	Mr Anirudh Thakur CEO and founder,	Hagri innovations Pvt ltd, Vill- Majthai , PO – Badehari, Tehsil & Distt – shimla
6	Mr Rajeev Sharma C.E.O,	Soya Kings, Vill.-Bannmajra, Kurali- Ropar Highway, Distt- Ropar
7	Ms Suman Gupta Chief Operation Officer	BSC BioNEST Bio-Incubator, Faridabad, Haryana
8	Er Loveleet Koti, Founder	Club Infotech, Pathankot, Punjab
9	Ms Renata Millett Co-Founder	Verth, Jaipur, Rajasthan
10	Mr Parivartan Somany, Designated Partner	Thinkonic Exports, Gurugram, Harayana
11	Sh. Dinesh Patiyal,	Founder & CEO, HFIL Technologies Ltd.
12	Sh. Joseph Jude	Chief Technology Officer, Net Solutions
13	Sh. Ravish Kumar	Manager – International Business Development, Signicent Information Solutions

Industry linkage: Last Five years only for Field Visit

Sl. No.	Contact Personnel	Name of Organization
14	Sh. H.S. Cheema	Managing Director, Cheema Boilers Ltd., Kurali
15	Sh. Jagpal Singh Bahra	Solution Provider, SAM Automation Technologies Pvt. Ltd.
16	Prija Goswami	Business Developer, IT & Farm to Table Food Concept, India
17	Sh. Amit Das	Director, Disruption Technologies Private Limited, Zirakpur
18	Ms. Moninderjit Kaur	Alpla India Private Ltd., Baddi
19	Sh. Ashok Gupta	Managing Director, Diplast Plastics Ltd., Mohali
20	Head, HR	Gilard Electronics Pvt. Ltd.

National and International role of faculty (Dr S K Dhameja)

Activity undertaken	Agencies involved
International Faculty Consultant 2005-08	Colombo Plan Staff College, Philippines
Resource Person for International Training Programs 2008-Till Date	Colombo Plan Staff College, Philippines
Resource Person for International Training Programs	United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) Bangkok
Resource Person for International Training Programs	Teheran Chamber of Commerce and Industry, Iran
Resource Person for a TVET Project	UNESCO Afghanistan
Member, Task Force, MSME and Entrepreneurship	UNESCAP Bangkok
Accreditation of Technical Institutions	NBA
Accreditation of Institutions	NAAC
Accreditation of Technical Institutions in Asia Pacific Region	APACC Philippines
Mentoring and Performance Auditing of Technical Institutions under TEQIP	NPIU

National and International role of faculty

Dr Hemant Kumar Vinayak	
Activity undertaken	Agencies involved
Member Expert Committee for Review & Development of Standardized Information, Education & Communication (IEC) material for Earthquake Safety and Preparedness	National Disaster Management Authority
Rapid Visual Screening of Buildings” Training Program to Govt. Engineers as a part of NDMA’s M8.7 1897 Earthquake Scenario Project being implemented by CSIR-NEIST Jorhat, NDMA in association with various north east state Government	National Disaster Management Authority
Participation in the Knowledge Co-creation Program on Disaster Risk Reduction of Building (against Earthquake, Tsunami and Fire) at Tokyo Japan	Japan International Cooperation Agency (JICA).
Attended Regional Workshop on Seismic Risk Reduction at Tehran and Bam.	Asian and pacific Centre for the Dev. of Disaster Information Mgmt (APDIM) of Economic and Social Commission for Asia and the Pacific (ESCAP), Plan and Budget Organization (PBO) Road Housing and Urban Development Research Centre (BHRC) of Islamic Republic of Iran
Er Amardev Singh	
Participation as a presenter and discussant in the Professional Development Workshop on Contemporizing Development Economics Research on Innovation, Entrepreneurship & Sustainability	Academy of Management Annual Meeting held at Chicago, Illinois, USA

Unique Achievements of Faculty

- Dr SK Dhameja has visited more than 25 countries (multiple times) for conducting training programmes and other professional assignments. These countries are Republic of Korea, Japan, Germany, Canada, USA, UK, Australia, Singapore, Chile, Bangladesh, Pakistan, Sri Lanka, Afghanistan, Maldives, Bhutan, Malaysia, Thailand, Vietnam, Fiji, Mongolia, Indonesia, Nepal and Taiwan.
- Dr SK Dhameja has received Certificate of Appreciation from Honorable Ambassador of India to the Philippines; Certificate of Gratitude and a Gold Medal from Under Secretary General of the United Nations and Executive Secretary of UNESCAP; Letter of Appreciation from Industry Linkage Adviser, Canada India Industry Institute Linkage Project and many other International dignitaries.
- Dr SK Dhameja has received Certificate with Gold seal for standing first in the Quality Management System Auditor- Lead Auditor Training Course conducted by Moody International, UK.

PROPOSED ACTIVITIES

I) MBA in Rural Entrepreneurship, Expected Year of Launch = 2022-23

- **Output:** Rural Entrepreneurs
- **Outcome:** Student will be able to develop required aptitude, knowledge and skill to be a rural Entrepreneur
- **Uniqueness:** This MBA program will be focussed towards providing Rural Entrepreneurs to the society and will also enhance the entrepreneurial approach of existing business holders.

PROPOSED ACTIVITIES

II) MBA in Infrastructure Management, Expected Year of Launch = 2022-23

- **Output:** Project Manager, Transportation Consultant, Consultant for Smart City Development / Management
- **Outcome:** Participant will gain understanding and knowledge regarding project management and smart infrastructure facilities management
- **Uniqueness:** Focus on smart infrastructure management in order to substantiate development and management of smart cities and smart infrastructure.

PROPOSED ACTIVITIES

III) PG Diploma in Academic Management, Leadership and Governance, Expected Year of Launch = 2025-26

- **Output:** Manager, Corporate Leader, Academic Administrator
- **Outcomes:** Participant will gain knowledge regarding academic management and governance.
- **Uniqueness:** The programme is oriented to develop competencies of the learners for managerial and leadership development.

PROPOSED ACTIVITIES

IV) PG Diploma in Business Economics for Higher Education Institutions, Expected Year of Launch = 2025-26

- **Output:** Policy Maker, Educationist Policy Formulators
- **Outcome:** Participant will gain knowledge regarding Economics of Business related to Higher Education Institutions.
- **Uniqueness:** PG diploma programme relates business aspect of higher education institutions.

Industry Tie-up for New Programs

Name of Industry	Type of involvement
Cheema Boilers, Mohali, Punjab	For Internship
NewSwan, Ludhiana, Punjab,	For Internship
GTP Softwares LLP	Live Projects, Training, Resource persons from industry
Goprac Pvt. Ltd, Bengaluru, Karnataka	Engaging session and Internships
KK Management & Financial Consultants, Zirakpur Punjab	Engaging session and Internships
Billing Register, Mullanpur Garibdass, New Chandigarh	Engaging session and Internships
Hagri innovations Pvt ltd, Majthai, Shimla H.P.	Engaging session and Internships
Club Infotech, Pathankot, Punjab	Engaging session and Internships
101 Unicorn Launchpad private limited, New Delhi	Engaging session and Internships
Disruption Technologies Private Limited, Zirakpur , Punjab	Live Projects and Engaging Sessions
HFIL Technologies Ltd.	Internships / Live Projects and Engaging Sessions
SAM Automation Technologies Pvt. Ltd. Mohali, Punjab	Internships / Live Projects and Engaging Sessions

External Faculty identified for the new programs from Industry/IIT/IIMs/NITs and other organizations

Name of Expert	Organization	Area of Expertise
Dr. S.N. Rangnekar	Professor, IIT Roorkee	Organisational Behaviour, Human Resource Management, Knowledge Management, Leadership
Dr. Dipanjan Kumar Dey	Department of Humanities and Social Sciences IIT Ropar	Consumer Behavior, Brand Management, International Marketing, Sustainability
Er. Pawan Kumar Saini	General Manager, Kirloskar Brothers Limited, Pune	MBA (Executive Education); Adaptability, Interpersonal Skills, Creativity and Innovation, Achievement Orientation,
Mr. Gurmeet Sharma	Chief Operating Officer (COO) Eureka Electrosoft Solutions Pvt. Ltd.	Founder Techpacs Research & Innovation Services. Entrepreneur
Mr. Balbir Singh	Former Vice-President, NITCON, Chandigarh	Entrepreneurship Development, Personality Development & Skill Development
Dr Rohit Joshi	IIM Shillong	Operations Management and Data Sciences
Dr Safal Batra	IIM Kashipur	Entrepreneurship and Strategic Management
Ms Poulami Mitra	Aibono Smart Farming Pvt Ltd	Supply Chain Analytics
Vishal Gupta	Bain & Company	General Management and Marketing Management
Dr Tara Shankar Shaw	IIT Bombay	Economics
Dr Nitin	IIM Shillong	Blockchain, IS, Big Data Analytics
Dr Y V R Murthy	NALSAR Hyderabad	Corporate Law and Financial Management
Dr Anurag Dugar	Goa Institute of Management, Goa	Marketing Management
Dr Hergovind Singh	MANIT Bhopal	Technology and Innovation Management, Project Management

External faculty identified for the new programs from Industry/ IIT/ IIMs/NITs and other organizations

Name of Expert	Organization	Area of Expertise
Dr Shankar Purbey	Development Management Institute, Patna	Operations Management, Project Management
Dr Hemant P Bulsara	SVNIT Surat	Innovation and Entrepreneurship, Logistic Management
Dr Shailendra Kumar	IIT Allahabad	Financial Management, Investment Management
Mr Veerananarayan Kulkarni	Millet Monk Pvt. Ltd.	Entrepreneurship, Process Improvement, Change Management
Dr Rouhin Deb	Invest India Ltd	Informal Competition
Dr Kuldeep Baishya	IIM Rohtak	Marketing Management, Marketing Research, Consumer Behavior, Capstone Simulation
Dr Vibhav Srivastava	MDI Gurgaon	Marketing Management, Research Methods
Dr Madan Lal Yadav	IIM Bodh Gaya	Data Mining and Machine Learning; Text Mining, Data Analytics, Web and Social Media Analytics
Er Nitin Rakesh,	Goprac Pvt. Ltd, Bengaluru, Karnataka	Entrepreneurship
Sh Karun Kashmiri,	KK Management & Financial Consultants, Zirakpur Punjab,	Entrepreneurship
Er Shashvat Gupta	Billing Register, Mullanpur Garibdass, New Chandigarh, Punjab	Entrepreneurship

External faculty identified for the new programs from Industry/ IIT/ IIMs/ NITs and other organizations

Name of Expert	Organization	Area of Expertise
Er Anirudh Thakur,	Hagri innovations Pvt ltd, Majthai, Distt - Shimla H.P.	Entrepreneurship
Loveleet Koti,	Club Infotech, Pathankot, Punjab	Entrepreneurship
Prabhav Pranshu,	101 Unicorn Launchpad private limited, New Delhi	Entrepreneurship
Dr. Ridhi Arora	IIM Shillong	Organization Behavior, HR
Dr. Piyush Verma	LM Thapar School of Management, Derabassi	Economics, Technology Management
Dr. Sanjeev Chaddha,	Mahatma Gandhi State Institute of Public Administration Punjab, Chandigarh	Management, Business Plan / Project Report Preparation and Appraisal, Leadership, Economics
Sh. Dinesh Patiyal,	Founder & CEO, HFIL Technologies Ltd.	Entrepreneurship, Leadership, Business Start-up, Information Technology, New Product Development, Pitch Preparation
Sh. Hirdesh Madan	President, TIE Chandigarh, and Mentor, Next Generation Incubation Scheme (NGIS), Mohali	Entrepreneurship, Leadership, Business Scaling, Innovation and Technology Transfer
Sh. Hitesh Kumar Gulati	Change & Organization Development Consultant, Diversity Ace Business Consulting	Change Management, Leadership, Creativity and Innovation
Sh. Joseph Jude	Chief Technology Officer, Net Solutions	Information Technology Infrastructure, Industry Institute Partnership

External faculty identified for the new programs from Industry/ IIT/IIMs/NITs and other organizations

Name of Expert	Organization	Area of Expertise
Sh. Varun Sharma	Advocate and Patent Attorney, Dev-Jure, New Delhi	Intellectual Property Rights, Patent Law and other legal aspects of Businesses
Dr. Kuldeep Singh Nagla	Dr. B.R. Ambedkar NIT Jalandhar (Punjab)	Intellectual Property Rights, New Product / Process Development, Intellectual Property Rights, Technology Transfer
Mr. Sanjiv Gupta	Ex-Chief General Manager, SML ISUZU Ltd.	Industry Institute Partnership, Quality Management, Leadership, Manufacturing Technology
Sh. H.S. Cheema	Managing Director, Cheema Boilers Ltd., Kurali	Leadership, Achievement Motivation, Entrepreneurship, Creativity and Innovation
Sh. Jagpal Singh Bahra	Solution Provider, SAM Automation Technologies Pvt. Ltd.	Automation, Robotics, Industry 4.0
Sh. Amit Das	Director, Disruptian Technologies Private Limited, Zirakpur	Internet of Things (IoT), Leadership, Business Start-up, Achievement Motivation
Er. Liakatbir Singh	Executive Director, PAHAL, Jalandhar, India	Social Entrepreneurship, Organization Management, Team Management
Prija Goswami	Business Developer, IT & Farm to Table Food Concept, India	Social Entrepreneurship, Information Technology, Value Creation, Impact / Performance easurement

WEAKENESSES OF THE DEPARTMENT

- Absence of adequate Business Incubation facility
- Lack of Training of Faculty in Industry
- Lack of regular long term programmes for students

Strategy to Overcome Weakness

- Setup of Business Incubation facility with adequate space and resources.
- Training of a faculty in industry on regular basis.
- Launching of two PG Diploma Programme and two MBA Programmes.

STUDENT CENTRIC ACTIVITIES

- Conduct of Entrepreneurship awareness camps
- Conduct of Entrepreneurship development programmes
- Conduct of Women Entrepreneurship Programmes
- Conduct of Programmes on self-Employment under PMRY Scheme
- Conduct of Business Plan Competitions
- Motivational Lectures for students in Institutions
- Conduct of Career Opportunity Fairs
- Conduct of Job Fairs for Persons with Disabilities

Entrepreneurship Pertaining Programmes for NITTTR, Students conducted by the EDIC Department

Year	Programme Title	Duration
2019 -20	EAC (Entrepreneurship Awareness Camp)	16.01.2019 to 17.01.2019
2018-19	Entrepreneurship Awareness Camp	15.01.2019 to 17.01.2019
	Entrepreneurship Awareness Camp	25.03.2019 to 27.03.2019
2017-18	Personality Development of Students for Effective Entrepreneurship	04-08-2017to 08.08.2017
	Entrepreneurship Awareness Camps	28-08-2017to 30.08.2017
	Entrepreneurship Awareness Camps	13-09-2017 to 15-09-2017
	Entrepreneurship Awareness Camps	22-01-2018 to 24-01-2018
2016-17	Intellectual Property Rights and Entrepreneurship,	19-08-2016
	Entrepreneurship Awareness Camp	21-10-2016
	One day Training programme for students of M.E Electrical Engineering departments of the Institute	18 th October,2016
	One-day Training programme for students of M.E in Electronics & Communication Engineering Dept. and Computer Science and Engineering Dept. of the Institute	24 th October,2016
2015-16	One day Training programme for students M.Tech/M.E Modular in all M.Tech/M.E offering departments of the Institute	2 nd January,2016
	One day Training programme for students of M.Tech/M.E Regular in all M.Tech/M.E offering departments of the Institute	4 th July,2015
2014-15	Taught the subject of Management and Entrepreneurship to the students of M.Tech (Engineering Education) Modular of the Institute	June-July,2014

FIVE YEARS FUTURE PLAN OF ENTREPRENEURSHIP DEVELOPMENT AND INDUSTRIAL COORDINATION (EDIC) DEPARTMENT OF NITTTR CHANDIGARH

S. No.	Activity	No. of Programme / Projects or Details of the Activity (for 5 years)
1	Long Term Programme	
	MBA in Rural Entrepreneurship	01 [2022 (Year of Start)]
	MBA in Infrastructure Management	01 [2022 (Year of Start)]
2	Education and Training	
	Short Term Training Programmes	40
	Conferences / Seminars	02 (National)
	Industry Institute Linkage Workshops and War Room Activities	04
	ICT based Short Term Training Programmes	4
3	Research and Development	
	R&D Projects	02
	Ph.D. Supervision / Dissertation	10
	MBA Dissertation	As per admission
4	Curriculum Development	Extend Assistance to CDC Department as per need
5	Instructional Material Development (Print / Non-Print)	
	Study Material for Short Term Training Programmes	As per programmes conduct
	Books / Modules / Operational Manual / IEC / Reader etc.	02
	Video Films (Short Lecture Based)	15

FIVE YEARS FUTURE PLAN OF ENTREPRENEURSHIP DEVELOPMENT AND INDUSTRIAL COORDINATION (EDIC) DEPARTMENT OF NITTTR CHANDIGARH

S. No.	Activity	No. of Programme / Projects or Details of the Activity (for 5 years)
6	Infrastructure Development (Renovations, Additional Space, Furniture etc.)	Furniture and Air-Conditioners Miscellaneous
7	Extension Services	<ul style="list-style-type: none"> - Providing assistance to MOE, AICTE, UGC, NPIU, NBA, NAAC, State / UT Governments, DTE, BTE, Engineering Colleges, Polytechnics, Industries and other Institutions / Organizations in Entrepreneurship, Industry Institute Interaction Activities, and Accreditation Services. - Networking with Foreign Universities, Institutions, and Organizations. - Other Need Based.
8	Development / Upgradation of Labs (Equipment / Instruments / Software etc. to be procured)	05 Software
9	Repair and Maintenance Expenses & Contingencies	Need Based
10	Any other activity proposed to be undertaken with Financial Requirements	-----

15 YEARS FUTURE PLAN OF ENTREPRENEURSHIP DEVELOPMENT AND INDUSTRIAL COORDINATION (EDIC) DEPARTMENT OF NITTTR CHANDIGARH

S. No.	Activity	No. of Programme / Projects or Details of the Activity (for 15 years)
1	Long Term Programme	
	MBA in Rural Entrepreneurship	01
	MBA in Infrastructure Management	01
	Post Graduate Programme in Academic Management, Leadership and Governance	01
	PGP in Business Economics for Higher Education Institutions	01
2	Education and Training	
	Short Term Training Programmes	120
	Conferences / Seminars	06 (National)
	Industry Institute Linkage Workshops and War Room Activities	15
	ICT based Short Term Training Programmes	15
3	Research and Development	
	R&D Projects	06
	Ph.D. Supervision / Dissertation	25
	MBA Dissertation	As per admission
4	Curriculum Development	Extend Assistance to CDC Department as per need
5	Instructional Material Development (Print / Non-Print)	
	Study Material for Short Term Training Programmes	As per programmes conduct
	Books / Modules / Operational Manual / IEC / Reader etc.	10
	Video Films (Short Lecture Based)	40

15 YEARS FUTURE PLAN OF ENTREPRENEURSHIP DEVELOPMENT AND INDUSTRIAL COORDINATION (EDIC) DEPARTMENT OF NITTTR CHANDIGARH

S. No.	Activity	No. of Programme / Projects or Details of the Activity (for 5 years)
6	Infrastructure Development (Renovations, Additional Space, Furniture etc.)	Furniture and Air-Conditioners Miscellaneous
7	Extension Services	Providing assistance to MOE, AICTE, UGC, NPIU, NBA, NAAC, State / UT Governments, DTE, BTE, Engineering Colleges, Polytechnics, Industries and other Institutions / Organizations in Entrepreneurship, Industry Institute Interaction Activities, and Accreditation Services. Networking with Foreign Universities, Institutions, and Organizations. Other Need Based.
8	Development / Upgradation of Labs (Equipment / Instruments / Software etc. to be procured)	20 Software
9	Repair and Maintenance Expenses & Contingencies	Need Based
10	Any other activity proposed to be undertaken with Financial Requirements	-----

STRATEGY OF EDIC IN COMING 15 YEARS

- Providing training to both technical and management domain faculty members, entrepreneurs, administrators and industry professionals.
- Assisting different International organisations in terms of the faculty support for their programmes and projects.
- Collaborating with International Universities and Institutes for joint R&D activities.
- Publishing joint research papers with faculty from reputed institutions at the International Level.

STRATEGY OF EDIC IN COMING 15 YEARS

- Exploring the opportunities for the Post-doctoral sponsorship for departmental faculty.
- Conducting need based Short Term Training Programmes at International Levels in addition to National Level through ICT mode.
- Upgrading the competency of faculty and staff of the department by giving them training opportunities in the organizations / institutions of high repute at National and International Levels.
- Assisting stakeholder institutions to promote start-up culture among their students.
- Exploring and sign MoUs with various Government, Industrial and other Organizations for undertaking collaborative R&D studies / projects and for the conduct of sponsored training programmes.

Start-up Initiative:

Under this initiative, NITTTR Chandigarh provided infrastructure and mentoring in the initial years of setup and operations

1. ENOVATION LAB LLP

- **Founder:** Ajay Kumar Godara
- **Education:** M.E. (Manufacturing Technology), National Institute of Technical Teachers Training and Research, Sector 26, Chandigarh (2014 – 2016)
- **Experience:**
 - Design Software training, Entrepreneurship Development, Pre-Placement training, Placement and Industry Interaction, Electric Vehicle Development, Combat Robot Building, Renewable Energy Generation
- **Skills:**
 - Influencing Skill
 - Motivational Skill
 - NLP Certification
 - Planning & Execution
- **Focus of the Venture:** is to bridge the gap between industry and academia through the conduct of hands on training Workshops, Summer Trainings in the areas of robotics, automation, renewable energy with an emphasis on latest technologies such as Arduino, Raspberry Pi, 3-D Printing, Matlab, and IOT; Project Guidance; Consultancy to Industry / Academia.

Continued...

2. FLIPFLOP INFORSEC PVT. LTD

- **Founder:** Saurabh Kaushal
- **Education:** B. Tech (Electronics & Communication Engineering) 2006-2010
- **Experience:**
 - Training of Universities, Engineering Colleges, Cyber Cell & Officials of central forensic Laboratory,
 - Information Security Evangelist,
 - Undertook Research in Networking and Web application Security, Honeypots, Botnet, DDOS etc.,
 - Educational Material Developed on information Gathering using on open Source Tools
- **Skills:**
 - Networking Vulnerabilities assessment
 - Web Hacking & Security
 - Computer Networking & Security
 - Wireless Networking
 - Networking Security and Firewalls
- **Focus of the Venture:** to meet the skill requirements of the industry and generate more employment especially in tier-2, tier-3 towns and in the rural part of the country. With the training of teachers and students as a primary objective, M/S Flipflop Inforsec Labs Pvt. Ltd. has been working through a four pillar program in the area of Faculty Development, Student Skill Development, Industry-Institute Interaction and Research & Publications.

Continued...

3) Modern Manufacturers

Plot No. 478, JLPL Industrial Park, Sector 82, SAS Nagar, Mohali-160055, Punjab, India

- **Founder:** Dr. Charanjit Singh
- **Education:** ME (Manufacturing Technology) National Institute of Technical Teachers Training and Research, Sector 26, Chd. (2006-2008)
- **Experience:** More than 10 years in Teaching, Training and Product development
- **Skills:** CAD/CAM, Design of Plastic Parts
- **Focus of the Venture:** Increase the rate of export in Manufacturing of Plastic Parts for various sectors such as automobiles, agriculture and home appliances

Continued...

4) SAM AUTOMATION

Phase 7, Industrial Area, Sector 73, Sahibzada Ajit Singh Nagar, Punjab 140308

- **Co-Founder:** Arun Malhotra
- **Education:** ME from Mechanical Engineering Department, National Institute of Technical Teachers Training and Research, Sector 26, Chd.
- **Experience:** 23 years in business development
- **Skills:** Thorough knowledge of Marketing and Financial Expects
- **Focus of Venture:** A Unique concept of all India marketing organization, under the Umbrella of “Tech Consortium” formed in the year 1998 to promote CNC Metal cutting solutions of growing companies and consequently, the respective companies at Chandigarh, Chennai, Delhi, Mumbai. Pune, and Vadodara established as independent profit centers. Further in 2006 SAMs Techno School, a skill development center with a resolve to make local youth employable established.

Continued...

5) HARYANA E-AUTO ZONE

- **Co-Founder:** Parmod Sharma
- **Education:** ME (Manufacturing Technology), National Institute of Technical Teachers Training and Research, Sector 26, Chandigarh (2014 – 2016)
- **Experience:** 2 years as Service Officer at Escorts Ltd (AMG Group)
- **Skills:** CAD-CAM, Solid –Works, and basic CATIA
- **Present Venture:** Shiv Ram Sharma Trading Company, Pundri Road, Dhand, Dist. Kaithal (Haryana)
- **Focus of the Venture:** Interlocking tiles, Tenders of Panchayati Raj Works

Continued...

6) Bubber Industries Pvt Ltd.

No. 175, Industrial Area, Phase- 2, Panchkula-134113, Haryana, India

- **Founder:** Deepak Bubber
- **Education:** ME from Mechanical Engineering Department, National Institute of Technical Teachers Training and Research, Sector 26, Chd.
- **Experience:** 40 years in business development
- **Skills:** Thorough knowledge of Marketing and Financial Expects
- **Focus of Venture:** One of the primary manufacturer of intricate, precision components and catering to a growing of OEM. Infused with the aim to deal in best quality like intricate, precision components and catering to a growing of OEM.

Link for Virtual Tour of the Department

<https://youtu.be/TQUebx0d8Og>

