



# Newsletter

## Technical Education, Vocational & Industrial Training In Himachal Pradesh

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Department of Technical Education, Vocational and Industrial Training in Himachal Pradesh is responsible for promotion of certificate, diploma and degree levels of technical education. The Directorate is located at Sundernagar and the department is presently headed by Shri Vijay Chandan, HAS. The present scenario of Technical, Vocational and Industrial Training in the state is shown below :

Present Status of Technical Education, Vocation & Industrial Training in Himachal Pradesh					
Sr. No.	Type of Institution	No. of Institutions	Approved Intake	Session 2012-13	Total Admission
1.	Govt. Engg. Colleges	02	320	320	870
	Pvt. Engg. Colleges	17	7170	2645	11055
2.	Govt. B. Pharmacy College	01	40	40	160
	Private B. Pharmacy College	12	900	493	1967
3.	Govt. Polytechnics	10	1490	1388	4263
	Private Polytechnics	24	8000	2745	9898
4.	D. Pharmacy (Govt. & Pvt.)	02	120	70	240
5.	Govt. ITIs	85	14945	8499	12430
6.	Pvt. ITIs	123	13431	5360	7807
<b>Total</b>		<b>276</b>	<b>46416</b>	<b>21560</b>	<b>48690</b>

**05 New Govt. Polytechnics in the State of H.P. with an intake of 360 students in 09 disciplines will start from the current academic session 2013-14. Counseling process is in progress.**

### 1. SUB-MISSION ON POLYTECHNICS

The state is covered under the "Submission on Polytechnics" Scheme of Govt. of India. Under this scheme, following projects and programmes are being undertaken by the state:

- 1.1 Setting-up of New Polytechnics:** The State has received AICTE approval for setting up of five new Govt. Polytechnics at Sirmour, Bilaspur, Kullu, Kinnour and Lahul Spiti. These polytechnics will have an intake of 360 students and will offer 9 disciplines with an intake of 40 students each. Admission for the current year is in process and classes will start at mentoring institutes. From the academic year 2014-15, the classes will be shifted to respective polytechnics. The state has planned to spend an amount of Rs. 61.5 crore on buildings and procurement of machines and equipment.

- 1.2 Upgradation of 9 Existing Polytechnics:** Out of 15 Govt. Polytechnics, 9 Govt. Polytechnics, namely Sunder Nagar, Hamirpur, Kangra, Rohroo, Kandaghat, Ambota, Chamba, Banikhet and Talwar are covered under this component. NITTTR, Chandigarh has vetted the lists of machinery and equipment worth Rs. 13.82 Crore. The state govt. has already released an amount of Rs. 5.72 crore by 31.3.2013. Rs. 2.20 crore has already been spent on procurement of State-of-the-Art machines and equipment. Upgradation of Polytechnics is expected to improve the quality of diploma level education in the state.



CONSTRUCTION OF  
NEW POLYTECHNICS  
IN PROGRESS

## MAJOR ACHIEVEMENTS ( April-June, 2013)

### REGIONAL PROGRAMME-CUM-INTERNATIONAL SEMINAR ON TVET FOR SUSTAINABLE DEVELOPMENT



Participants of the Programme

NITTTR Chandigarh in collaboration with Colombo Plan Staff College (CPSC) for Technician Education, Manila conducted a one week 'Regional Programme-Cum-International Seminar on TVET for Sustainable Development' from 27 May to 1 June, 2013 at NITTTR, Chandigarh. The programme was specifically meant for developing current understanding of sustainable development in the context of TVET, the basic strategies and issues in integrating sustainability aspects into TVET, understanding social entrepreneurship as a means of eco-friendly technology base solutions, and to develop an action plan for more inclusive interventions. 17 international delegates from 12 countries of the Asia Pacific region participated in the programme. A one day international seminar on 'Current Practices and Emerging Issues of Sustainable Development in TVET' was held on 30 May, 2013 as a part of the programme and it was attended by 85 delegates both international and national. CPSC delegation included Dr. Mohammad Naim Yaakub, Director General and Dr. Hazrat Hussain, Faculty Consultant. The programme was supervised by Dr. M.P.Poonia, Director, NITTTR, Chandigarh and coordinated by a team of faculty members comprising of Dr. S.K. Dhameja, Dr. J.S. Saini, Dr. Rakesh Wats and Dr. U.N. Roy.

### NATIONAL CONFERENCE ON ADVANCES IN MANUFACTURING TECHNOLOGY, MAY 23 - 24, 2013



Mechanical Engineering Department of the institute organized a two day National Conference on 'Advances in Manufacturing Technology' on May 23 - 24, 2013. Dr. B. S. Pabla, Professor & Head, Mechanical Engineering and the convener of the conference highlighted the objectives of the seminar as to provide a forum for academicians, researchers and practitioners for exchange of research experiences and developments in the area of manufacturing technology, viz., metal cutting, casting, forming, welding; micro-machining & nano-technology; non-conventional machining; flexible manufacturing systems; CAD/CAM/ CIMS/RMS; high-speed machining; rapid prototyping technology; robotics & automation; mechatronics; reverse engineering; concurrent engineering; engineering materials & metallurgy; maintenance engineering & tribology; ergonomics; optimization techniques & algorithms; computer applications in mechanical engineering etc. Sh. M. P Singh, IAS, Principal Secretary to Governor of Punjab, and the Chief Guest, in his address appreciated the activities of NITTTR, Chandigarh including ICT based training. He highlighted major issues required to be taken care of by manufacturing engineers, i.e., maintainability of product, recycling aspects of product, and use of appropriate technology.

Dr. M. P.Poonia, Director, NITTTR Chandigarh in his address highlighted the problems of technical education. He emphasized the need to enhance the industry academia interaction, green manufacturing technology and research & industry based curriculum development.

The conference was attended by delegates from across the country which included eminent academicians from IITs, NITs, engineering colleges, universities, polytechnics, entrepreneurs and working professionals from industries. About 50 papers selected out of 65 research papers received were presented in the conference.

### INDUSTRY ACADEMIA COLLABORATION WORKSHOP, JUNE 27 - 28, 2013



Ministry of Human Resource Development (MHRD), Government of India organized a two-day industry-academia collaboration workshop on June 27 - 28, 2013 at this institute. The workshop aimed at bringing the industry and academic institutions together for exploring possibilities of collaboration for strengthening the technical education system. The workshop was organized in connection with the second phase of Technical Education Quality Improvement Programme (TEQIP-II) being implemented with the assistance of World Bank for transformation of the technical education system. Engineering institutes of northern region covered under the Technical Education Quality Improvement Programme project participated in the workshop. The technical institutes signed Memorandums of Understanding with the industries for curriculum design, faculty development, research and development and student training and placement.

Representatives from MHRD, All India Council for Technical Education (AICTE), National Project Implementation Unit (NPIU), Confederation of Indian Industry (CII) and engineering colleges of northern India covered under the TEQIP scheme and various industry associations participated in the workshop. Dr. M. P.Poonia, Director and Dr. B. S. Pabla, Professor & Head, Mechanical Engineering Department coordinated the workshop.

### JOB FAIR FOR DIFFERENTLY ABLED PERSONS

NITTTR, Chandigarh in collaboration with Sarthak Educational Trust, New Delhi, Vocational Rehabilitation Center, Ludhiana and CII, Chandigarh organized a special job fair for the differently abled persons on 21st June, 2013. KFC, Vishal Megamart, Lemon Tree Hotel, Future Group, Spanco BPO Services, Blackberry's, Serco BPO, Dominos, Competent Synergies from Chandigarh participated in the job fair. 350 differently abled persons from Chandigarh, Punjab, Haryana and Himachal Pradesh took part in this job fair. In term of disabilities, the fair attracted orthopaedically handicapped, visually challenged, hearing and speech handicapped and persons with multiple disabilities. The fair resulted in short listing of 79 differently abled persons for placement in the above mentioned companies. As per information provided by Sarthak Educational Trust, 70-80% of the short listed candidates are likely to join the organisations they were interviewed by within 15-20 days after the Job Fair.



SPECIAL JOB FAIR FOR PWDS IN PROGRESS

## FORTHCOMING EVENTS (July -September, 2013)\*

### POLYTECHNICS

1. MATLAB Programming, TTC Jodhpur, 8-19 July
2. Office Automation for Faculty and Staff, 15-19 July
3. Software Applications in Civil Engineering, 15-19 July
4. Quality Assurance & NBA Accreditation in Technical Institutions, 15-19 July
5. Hands-on Experience in MATLAB, GPC Chittorgarh, 15-19 July
6. Refresher Course in Mechanical Engineering, 15-26 July
7. Optical Fibers: Communication and Sensing Applications, 15-26 July
8. Induction Training Prog. for Newly Recruited Teachers of Polytechnics, 15-26 July
9. Communication Skills for Effecting Curriculum Implementation, GP Gauchar (UK), 22-26 July
10. Concrete Mix Design-New Directions, 22-26 July
11. Environmental Pollution and Sustainable Development, 22-26 July
12. Internet Collaborative Tools for Librarians, 22-26 July
13. Managing Yourself, 22-26 July
14. Web-Based Content Development Through Moodle, 22-26 July
15. Renewable Energy Based Technologies, 22-26 July
16. Eco-Water Literacy & Sanitation Awareness Camp, FG Poly Rae Bareilly, 22-26 July
17. Entrepreneurial Awareness Camp, GP Leh, 22-26 July
18. Cloud Computing, 29 July-2 August
19. Energy Management, 29 July-2 August
20. Classroom Communication and Presentation Skills, 29 July-2 August
21. Supervisory Development Skills for Workshop Instructors, 29 July-2 August
22. Applied Numerical Methods with MATLAB, 29 July-2 August
23. Office Automation for Faculty & Staff, NITTTR CHD/ CCET CHD/GPW CHD, 5-9 Aug
24. Advance Manufacturing Methods, 5-9 August
25. Mapping by Total Station, 6-8 August
26. Achievement Motivation Training-Experiential Learning, GIGT Amritsar, 6-8 Aug.
27. Developing Healthy Work Culture in Technical Institutions, GPW Srinagar, 12-16 Aug
28. Open Source for Multimedia Content Generation and Distribution, NITTTR CHD / Outstation, 12-16 August
29. Vaastu Shastra in Building Construction, 19-23 August
30. New Materials and Techniques in Highway Construction, 19-23 August
31. FDP in Industry-Institute Partnership & Establishment of Entrepreneurship Development Cells, 19-23 August
32. Hands on Experience in Power Electronics, 19-23 August
33. CAD/CAM, 19-23 August
34. Business and Soft Skills Development in Institutions, 19-23 August
35. Nuclear Radiations and Their Applications, 19-23 August
36. Wireless Networks, 19-23 August
37. Wireless LAN, 19-23 August
38. Institutional Evaluation, GPC Ludhiana, 19-23 August
39. Android Programming, 29-30 August
40. Induction Training Prog. for Newly Recruited Teachers, 25 August-6 September
41. Lasers and Their Applications, 2-6 September
42. Geotechnical Investigations, 2-6 September
43. Latest Trends in Pharmacy Education, 2-6 September
44. Open Source Technologies, 2-6 September
45. Virtual Instrumentation, 2-6 September
46. Advances in Modern Management Practices, GP Jammu, 2-6 September
47. Motivation, Creativity and Team Building, 2-6 September
48. Industrial Automation and Robotics, 2-6 September
49. Strategic Planning and Management of Technical Institution, KGP Srinagar, 9-13 Sep.
50. Structural Design using STAAD PRO, 9-13 September
51. Developing Healthy Work Culture in Technical Institutions, KC GPW Ambala City, 9-13 September
52. Repair and Maintenance of Machine Tools, 9-13 September
53. Climate Change, Disaster Management and Sustainable Development, VBRI Udaipur, 9-13 September
54. E-Commerce, 9-13 September
55. Induction Training Programme for Newly Recruited Teachers, 9-20 September
56. Green and Intelligent Buildings, 16-20 September
57. E-governance in Technical Institutions, 16-20 September
58. Access and Management of Online e-Resources, 16-20 September
59. Web Hacking and Security, 16-20 September
60. Programmable Logic Controllers, 16-20 September

61. Preparing Students for Job Interviews, GP Kashipur, 16-20 September
62. Fuzzy Logic: A Tool for Intelligent Computing, 16-20 September
63. Transportation Engineering, Delhi, 23-27 September
64. ASP.Net, 23-27 September
65. Preparing Students for Job Interviews, 23-27 September
66. Institutional Accreditation (NBA Guidelines) & Quality Management, 23-27 Sept
67. Computer Aided Manufacturing, 23-27 September
68. Repair and Maintenance of Measuring Instruments Power Supplies etc., Almora, 23-27 September
69. Induction Training Prog. for Newly Recruited Teachers, 23 Sept-4 Oct

### ENGINEERING COLLEGES

1. NET Technologies, MIMIT, Malout, 8-12 July
2. Basic Pedagogical Training, CEC, Landran, 8-12 July
3. Quality Assurance and NBA Accreditation in Technical Institutions, 15-19 July
4. Video Lecture Generation and Distribution Using Social Network, NITTTR CHD/Outstation, 15-19 July
5. Energy Sources and Computational Techniques in Electrical Engineering, GZS PTU Campus Bathinda, 15-19 July
6. Optical Fibers: Communication and Sensing Applications, 15-26 July
7. Induction Training Programme for Newly Recruited Teachers of Engineering Colleges, 15-26 July
8. Renewable Energy Based Technologies, 22-26 July
9. Circuit Simulation Using Multisim, 22-26 July
10. Internet Collaborative Tools for Librarians, 22-26 July
11. Managing Yourself, 22-26 July
12. Web-Based Content Development Through Moodle, 22-26 July
13. Cloud Computing, 29 July-2 August
14. Disaster Mitigation and Management, 29 July-2 August
15. Energy Management, 29 July-2 August
16. Supervisory Development Skills for Workshop Instructors, 29 July-2 August
17. Effective Teaching and Classroom Communications, MMMEC Gorakhpur, 29 July-2 August
18. Applied Numerical Methods with MATLAB, 29 July-2 August
19. DSP Using MATLAB, 5-9 August
20. Advance Manufacturing Methods, 5-9 August
21. Signal Processing and Image Processing using Scilab, 5-16 August
22. Nuclear Radiations and Their Applications, 19-23 August
23. Wireless Networks, 19-23 August
24. FDP in Industry-Institute Partnership and Establishment of Entrepreneurship Development Cells, 19-23 August
25. Hands on Experience in Power Electronics, 19-23 August
26. Business and Soft Skills Development in Institutions, 19-23 August
27. Android Programming, 26-30 August
28. Lasers and Their Applications, 2-6 September
29. Open Source Technologies, 2-6 September
30. Virtual Instrumentation, 2-6 September
31. Power Electronics, MIT Moradabad, 2-6 September
32. Repair and Maintenance of Machine Tools, 9-13 September
33. E-commerce, 9-13 September
34. Web Hacking and Security, 16-20 September
35. Green and Intelligent Building, 16-20 September
36. Construction Management, 16-20 September
37. Programmable Logic Controllers, 16-20 September
38. Access and Management of Online e-Resources, 16-20 September
39. Fuzzy Logic: A Tool for Intelligent Computing, 16-20 September
40. Embedded System and Its Applications, 16-27 September
41. FACTS Technology, 23-27 September
42. Open Source Tools for Virtual Learning, 23-27 September
43. Institutional Accreditation (NBA Guidelines) & Quality Management, 23-27 Sep.
44. OFC System Design and Simulations, 23-27 September
45. ASP.Net, 23-27 September

### NATIONAL WORKSHOP

#### Advances in Water Proofing Materials and Techniques

05-06 September, 2013

**Note :** The above programmes will be conducted at NITTTR, Chandigarh unless otherwise stated.

\*For details please visit our institute [website : www.nitttrchd.ac.in](http://www.nitttrchd.ac.in)

**1.3. Construction of Women Hostels in Existing 9 Govt. Polytechnics:**

All 9 Govt. Polytechnics covered under the scheme of upgradation are also covered under the scheme for construction of women hostels. An amount of Rs. one crore per polytechnic shall be spent on construction of 50 bedded hostel for women in each polytechnic. MHRD, GOI is committed to release an amount of Rs. 9.00 crore to state Govt. out of which Rs. 3.20 crore already stands released and state government has also released an amount of Rs. 1.80 crore to nine polytechnics. Construction of women hostels is in progress in the state.



**CONSTRUCTION OF GIRLS HOSTEL IN EXISTING POLYTECHNICS**

**2. Establishment of Community Colleges**

The state has decided to implement the community college scheme at Govt. Polytechnic, Sundernagar from academic session 2013-14. Automobile Sector related trades would be offered by the college. Another community college shall be made operational from the academic session 2014-2015.

**3. Physical Achievements under CDTP Scheme**

This centrally sponsored scheme is presently operational in six polytechnic in the state. Under this scheme the polytechnics have received recurring grant of Rs. 1.278 crore from 2009-10 to 2012-13. An amount of Rs. 96.851 lacs has been utilized resulting in skill training of 4816 persons. 1724 persons (35.80%) could get wage/self-employment after completing the skill training. The polytechnics of the state have trained CDTP Scheme beneficiaries in 41 trades including 32 engineering and allied trades. The polytechnics in the state have an effective networking with other stake holders.

**4. Technical Education Quality Improvement Programme**

This programme is being implemented at JN Govt. Engineering College, Sundernagar. This programme involves an expenditure of Rs. 10.00 crore which will be shared by central and state govt. in the ratio of 90:10. Whereas the Central Govt. has released an amount of Rs. 487.80 lacs the state has released Rs. 50.00 lacs as its share. The project aims at improving infrastructure, value addition to faculty, enhancing learning outcomes of students and improving placement of passouts.

**5. Persons with Disability Scheme**

This is another centrally sponsored scheme operational at Govt. Polytechnic, Sunder Nagar since 2001-2002. During the past 12 years 197 persons with disabilities have benefited from formal programmes and 686 lesser educated persons with disabilities have undergone non-formal skill training. The polytechnic tries to mainstream persons suffering from different types of disabilities.

**Dr. M.P Poonia, Director,**

**Dr. JS Saini, Professor & Head, Rural Development and CPC, NITTTR, Chandigarh**

Training programmes conducted by the Institute during April-June, 2013		
Particulars	Number of Programmes	Number of Participants
Polytechnics	34	501
Engineering Colleges	21	568
Induction Training Programmes through ICT	25	786

**TRAINING PROGRAMME ON IC ENGINES THROUGH ICT, MAY 27 - 31, 2013**

The institute organized a Training Programme on IC Engines through ICT from May 27 to 31, 2013. Dr. M. P. Poonia, Director of the institute coordinated the programme, which is first ever technical programme organized through ICT at NITTTR, Chandigarh. Eminent experts from the field of IC Engines - Dr. A. Ramesh from IIT, Chennai, Dr. D. S. Khatri, International IC Engines Consultant from Gurgaon, Dr. Dileep Sharma from MNIT, Jaipur and Dr. M. P. Poonia delivered expert lectures during the programme. The programme received an overwhelming response and 400 participants attended the programme at ten nodal centres in Punjab, Haryana, Rajasthan and Uttarakhand through video conferencing / google hangout. Another 40 participants from various engineering and polytechnic colleges of Punjab and Uttarakhand attended the programme at NITTTR, Chandigarh.

**PAPER PRESENTATION IN INTERNATIONAL CONFERENCES BY INSTITUTE FACULTY**

- Dr. S. S. Banwait, Professor, Mechanical Engineering Department, presented a paper titled 'An Exhaustive Review of Die Sinking Electrical Discharge Machining Process and Scope for Future Research' in International Conference on Manufacturing Engineering & Technology held in Toronto, Canada from June 20 -21, 2013.
- Dr. S. Chatterji, Professor & Head, Electrical Engineering Department, presented a paper titled 'Artificial Intelligence (AI) Based Cascade Multi Level Inverter for Smart Nano Grid' in International Conference on Automation, Robotics & Vision Engineering held in Toronto, Canada from June 20 -21, 2013.

**सरकारी कामकाज में सरल हिन्दी के प्रयोग हेतु कार्यशाला**

संस्थान के निदेशक महोदय, डा0 एम पी पूनियाँ की अध्यक्षता में दिनांक 23.05.2013 को संस्थान के बोर्ड रूम में हिन्दी कार्यशाला का आयोजन किया गया। यह कार्यशाला 'सरकारी कामकाज में सरल हिन्दी का प्रयोग' नामक विषय पर आयोजित की गई। इस कार्यशाला में डा0 सुश्री नीरू, वरिष्ठ हिन्दी अधिकारी, सीएसआईओ, सेक्टर 30, चण्डीगढ़ को विशेषज्ञ के रूप में आमंत्रित किया गया। कार्यशाला में 22 अधिकारियों/कर्मचारियों ने भाग लिया। कार्यशाला से सभी उपस्थित सहभागी लाभान्वित हुए एवं उन्होंने इसकी सराहना की।

