



**BHARATI VIDYAPEETH'S  
JAWAHARLAL NEHRU  
INSTITUTE OF TECHNOLOGY (POLYTECHNIC), PUNE**

*Presents*

**TECHNO-iNNOVA'14  
NATIONAL TECHNICAL PAPER PRESENTATION  
COMPETITION FOR POLYTECHNIC STUDENTS  
17<sup>th</sup> – 18<sup>th</sup> January, 2014**



**Approved & co-sponsored by MSBTE, Mumbai.**

**Bharati Vidyapeeth, Pune**

**“Social Transformation through Dynamic Education”**

**GOLDEN JUBILEE 1964-2014**

**Bharati Vidyapeeth, Pune**, established in 1964, is the leading educational institute in the country. Led by **Honorable founder Dr. Patangraoji Kadam** Chancellor – Bharati Vidyapeeth University, Minister for forests, Rehabilitation and help Maharashtra State, the organization has established 190 education centers within a short span, imparting education from the Pre-primary to Post-Graduation and Research Activities. Colleges and Institutions of higher education offer education in various disciplines including Medicine, Dentistry, Ayurveda, Homeopathy, Nursing, Information Technology, Bio-Technology, Engineering, Pharmacy, Management, Arts and Fine Arts, Photography, Science, Commerce, Social Science, Law, Environmental Science, Architecture, Hotel Management and Catering Technology, Physical Education and Agriculture.

**Web <http://bharatividyaapeeth.edu>**

In recognition of the academic merit achieved by these institutions and potential for development, which they have, the Department of Human Resource, Govt. of India and the University Grant Commission of India have accorded the status of University to 30 constituent units of Bharati Vidyapeeth, under the **Bharati Vidyapeeth Deemed University, PUNE.**

**Bharati Vidyapeeth's Jawaharlal Nehru is a proud member of the Bharati Vidyapeeth's Family.**

**Techno innova'14**

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Competition

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## ABOUT THE INSTITUTE

**Bharati Vidyapeeth's Jawaharlal Nehru Institute of Technology (Poly.), Pune**, started functioning from 19<sup>th</sup> July 1983. The institute is located in a lush green and beautifully landscaped campus in the vicinity of Katraj Lake on Pune-Satara Road.

### Courses offered

<u>FIRST SHIFT:</u>	<u>SECOND SHIFT:</u>
<ol style="list-style-type: none"><li>1. Chemical Engineering</li><li>2. Civil Engineering</li><li>3. Computer Technology</li><li>4. Electrical Engineering</li><li>5. Industrial Electronics</li><li>6. Information Technology</li><li>7. Mechanical Engineering</li><li>8. Production Engineering</li></ol>	<ol style="list-style-type: none"><li>1. Computer Technology</li><li>2. Electrical Engineering</li><li>3. Industrial Electronics</li><li>4. Information Technology</li><li>5. Mechanical Engineering</li></ol>

The institute is housed in a vast building having most modern equipment in laboratories and workshops. Highly qualified, dedicated faculty and a library with latest books make the institute a best place for learning and skill development. The institute boasts of excellent results and placements of students.

This is the first institute organizing technical competitions for polytechnic students. Students are encouraged for participation in various sports tournaments and cultural events. Our students have best performance in paper presentation and project competitions winning many prizes. The institute also conducts training for industrial employees.

## TECHNO-INNOVA'14

**Techno-innova** is a unique National event for Polytechnic students. There are 7 different competitions for diploma students. This platform provides an opportunity to the students to showcase their technical awareness & presentation skills. More than 700 students from different polytechnics all over the country are expected to participate in the event. The "Techno-innova" is the primary contest for paper presentation. Started in 1999, this event has proved to be most popular competition in all the polytechnics. Students are expected to present technical paper on any one of the given topics, in different sections.

### TOPICS FOR PRESENTATION IN TECHNO – INNOVA'14

**Section -1:**

- 1) Application of solar energy for domestic dryers
- 2) Pinch Technology
- 3) Membrane Distillation

**Section -2**

- 1) Mobile Router System for efficient network engineering
- 2) Web mining techniques
- 3) Virtual Operating System

**Section-3:**

- 1) Zero waste technique for industrial waste disposal
- 2) Advanced Techniques for maintaining stability of retaining wall
- 3) Use of geo-synthetics in road construction

**Section-4:** 1) Microprocessor based AC motor control system  
2) Development of superconducting Rotating Machines  
3) Wireless Power Transmission

**Section-5:** 1) Antenna Effect in VLSI Design  
2) Micro strip Antenna Technology  
3) Advance cooling system for power-electronics

**Section -6:** 1) Micro-scale Milling Technology  
2) Automatic transmission system  
3) Green engine technology

Registration Fee : 300/- per paper  
Prizes 1<sup>st</sup> prize worth : 10000/-

Date : 17<sup>th</sup> -18<sup>th</sup> JAN 2014  
2<sup>nd</sup> prize worth : 7000/- in each section

**INSTRUCTIONS** : Students can present paper in any section.

Maximum **TWO Students** per paper will be given 10 min. for presentation per team.

**REGISTRATION:** The Registration Form as per the given format should be sent along with one print copy & registration form. A soft copy of abstract on E-mail, in the format given below on or before **09/01/2014**. **Abstracts received on or before the last date will be published in the special issue of 'Tanta bharati14'.**

Registration by E-mail will not be accepted

**FULL PAPER:** After receiving the confirmation of selection in the competition, full paper should be sent by email on or before **14/01/2014**. **Participants should submit 3 print copies of full paper at the time of reporting for the competition.**

**FORMAT FOR PAPER / ABSTRACTS:**

MS Word 2003 onwards with Times New Roman font having font size - Title-16, Sub Title-14 and Text-12. Abstracts should not be more than one page (300 words). Please mention the **Section No. and Title, Names of participants, Guide and Institute on the top of the abstract page.**

Acceptance will be sent on your E-mail ID only. No further communication through post will be made.

LCD Projectors & PC will be available for presentation.

**Last date: Abstract Registration: 09/01/14 Full paper: 14/01/14**

### **BHURJAPATRA'14**

**Bhurjapatra'14** is a National Technical Poster Presentation competition . For this competition, the students will bring their posters for which **1m x 0.75m** space will provided. The best two posters will be awarded with prizes. The posters should be on topics listed for presentation in TECHNO-iNNOVA

**Registration Fee :150/- only. DATE:17<sup>th</sup>-18<sup>th</sup> JAN 2014**  
**1<sup>st</sup> prize worth:4,000/- 2<sup>nd</sup> prize worth:2,500/-**

### **ROBONOVA'14**

**Robonova'14** is a robot path tracing competition. A path having curves, sharp turns, obstacles and slopes will be design. The robot will trace the path in minimum time. Penalty points will be awarded for manual intervention or uncontrolled movements. Minimum time and minimum penalty points will decide the winner. Robot having minimum 3 and max 5 axes will be registered for the competition. This competition is open to all colleges. The judges decision will be final.

**Registration fee : 150/- only. Date : 18<sup>th</sup> JAN 2014**  
**1<sup>st</sup> prize worth :4,000/- 2<sup>nd</sup> prize worth :2,500/-**

## TANTRAGYA'14

**Tantragya'14** is CAD Competition organized along with TECHNO-INNOVA. Students can participate individually. The competitors are required to convert given Orthographic view into Isometric view or vice-versa using CAD software

### Instructions:

1. AUTOCAD 2010 package will be provided.
2. Designing limits is A4 (210 x 297mm).
3. Dimensioning & Rectangular border is compulsory.
4. Time limit: 1 hour.

**Registration fee :Rs.100/- per student DATE : 18<sup>th</sup> JAN 2014**

**1<sup>st</sup> prize worth :4,000/- 2<sup>nd</sup> prize worth :2,500/-**

## THE 'C' CHALLENGE'14

**The 'C' Challenge'14** is an exclusive C programming competition for polytechnic students. Students from various polytechnics can participate individually. The judges coming from eminent software companies have appreciated this competition which has helped the students to interact with the professional software engineers.

**Instructions:**1)There will be 3 elimination rounds-

- i)Written objective test ii) Writing and execution of program iii) viva based on program.
- 2)The 'C' challenge is based on 'Turbo C' compiler including file handling and graphics.

**Registration fee: Rs.100/ per student DATE: 18<sup>th</sup> JAN 2014**

**1<sup>st</sup> prize worth: 4,000/- 2<sup>nd</sup> prize worth: 2,500/-**

## THE GAMING ZONE'14

**The Gaming Zone'14** is a **NFS-MOST WANTED** gaming competition. The competition will be conducted on knockout basis. Maximum 4 students in each round will contest at a time. Game specification and conditions will be given on the spot. Game masters decision will be final.

**Registration fee: Rs.100/ per student DATE: 18<sup>th</sup> JAN 2014**

**1<sup>st</sup> prize worth: 4,000/- 2<sup>nd</sup> prize worth:2,500/-**

## VISWAKARMA'14

**Vishwakarma'14** is a structural model making competition for polytechnic students. A model based on construction and design principals is to be made from the given waste material. Team of experts from various construction industries will judge the load taking capacity of model on the spot.

### Instructions:

- 1.A model of bridge/culvert/ crane/house is to be made.
2. Model is to made within given dimensions.
3. Materials for construction of model may be - waste paper/ice-cream sticks/ straws/ bamboo sticks/ thermocol strips etc. - which will be provided along with binder, threads, cello tape, scissor, pins, etc.
4. Team of 2 students is permissible.
5. Time limit: 2 hours.

Registration fee of Rs.150/per team

DATE: 17<sup>th</sup> JAN 2014

1<sup>st</sup> prize worth: 4,000/-

2<sup>nd</sup> prize worth: 2,500/-

## BHARATI KARANDAK'14

**Bharati Karandak'14** is Group Dance Competition organized for Polytechnic Students by **Bharati Kala Academy, Pune** since 2002. We organize this event along with **Techno innova** which is also a special event for polytechnic students. Eminent artists are invited as jury for the competition, thereby presenting the talent of polytechnic students to the professionals.

### Instructions:

- 1)The group participating in this competition should have minimum 6 and maximum 16 participants.(Including backstage members.)
- 2)Time Limit:-7 mins. for dance and 5 mins for backstage preparation.
- 3)Only one entry from an Institute will be accepted.
- 4)Entries will not be accepted without certification by the Principal in the given format
- 5)The decision of the judges will be final.

Registration fees: 500/- per group

DATE: 17<sup>th</sup> JAN 2014

1<sup>st</sup> prize worth: 10,000/-

2<sup>nd</sup> prize worth: 7,000/-

## IMPORTANT INSTRUCTIONS

**Combined Registration fees of all competitions, along with Registration Forms, can be paid through DD in favor of "Principal, BVJNIOT, Pune" payable at Pune.**

**Accommodation :** for participants and faculty- rooms on shared basis at nominal charges will be made available, for boys in near by hotels @ Rs. 150/head/day, for girls in nearby hostels @Rs300/head/day . Meals at affordable charges will be available in the hostel mess.

### Advisory committee:

Mr. W.G.Kharche - Principal  
Mr. R.R.Utturkar - Principal(2<sup>nd</sup> Shift)  
Mr. A.A. Shinde - Vice Principal

### Jt. Conveners:

Mr. Nilesh Pangare - 09545672885  
Mr. Amol Pujari - 09860340380  
Mrs. Sarika Kunjir - 09689894780

### Convener:

Mr. Rajkumar Kadam - 09822440980

### Student Representatives:

Akshay Shankar Hole - 09975350298  
Mayuri Mansing Patil - 08275640221

<b>EVENTS</b>	
Bharati Karandak	17/01/2014
Vishwakarma	17/01/2014
The 'C' Challenge	18/01/2014
Tantragya	18/01/2014
Gaming Zone	18/01/2014
Bhurjapatra	17-18/01/2014
Robonova	18/01/2014
<b>Paper presentation</b>	
Section 2, 5, 6	17/01/2014
Section 1, 3, 4	18/01/2014

#### ADDRESS FOR CORRESPONDENCE

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**Website: <http://bjniot.bharativedyapeeth.edu>**

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