Patent Drafting Exercise by Final Year BE Students

6th Report regarding seminars organized by
Various GTU affiliated colleges for the final year BE students on
Patent Drafting Exercise (PDE)

To implement Patent Drafting Exercise (PDE) effectively, GTU Innovation Council (GIC) had organized six Faculty Development Programmes (FDPs). GIC had organized two FDPs on PDE at GTU's Chandkheda's campus. These two FDPs were organized on 15.02.2014 & 08.03.2014. GIC had also organized four zonal level FDPs -- at Atmiya Institute of Technology & Science - Rajkot on 22.03.2014, at Parul Institute of Technology - Baroda on 29.03.2014, at BVM Engineering College - VV Nagar, Anand on 05.04.2014 and at Sarvajanik College of Engineering and Technology - Surat on 12.04.2013. More than 500 faculty from various GTU affiliated BE colleges participated in these FDPs.

After attending these FDPs, organized by GTU, faculty members from various institutes have delivered seminars on PDEs for their Final year BE students at their respective colleges. This report comprises of reports GIC has received from the following colleges:

Babaria Institute of Technology - Baroda
Ahmedabad Institute of Technology – Ahmedabad
Kankeshwaridevi Institute of Technology – Jamnagar
Alpha College of Engineering and Technology (ACET)-Gandhinagar
Bhagwan Mahavir College of Engineering and Technology-Surat
C.K.Pithawalla College of Engineering & Technology- Surat

These three Colleges have conducted such seminars for their students.

The Objectives of the seminars on PDE at Colleges: These seminars and related activities are organized to make students familiar with primary requirements of patent filing procedure in India. The students learn about the necessary forms to be filled, the information required to be added in these forms, the associated time limit for various activities, fees to be paid etc.

BABARIA INSTITUTE OF TECHNOLOGY - BARODA

Babaria Institute of Technology has organized one day workshop on "PATENT DRAFTING EXERCISE" at BITS campus on Friday, **25 Aril. 2014**. The seminar was taken by **Dr. Dipesh M. Patel, Prof. Ketan Damor and Prof. Milan Chaudhari**. Workshop was given to the students of final year Electrical. There were around **65 students** and faculty members were present workshop.

All the faculty members of Babaria Institute of Technology appreciated that GTU Innovation Council has taken a very good approach for the students by introducing PSAR and PDE.

Photo:

AHMEDABAD INSTITUTE OF TECHNOLOGY – AHMEDABAD

Ahmedabad Institute of Technology has organized workshop on "PATENT DRAFTING EXERCISE" on **5th March 2014**. Professor **Mr. Arun Karsariya** from Mechanical Engineering department had conducted the workshop for all the students of all the branches of engineering. Professor Mr. Arun Karsariya had conducted two different sessions of seminar on different days, one is for faculty of mechanical department and other is for the students. **28 faculty members** and **more than 90 students** have participated in this seminar on PDE.

Prof. Arun Karsariya has discussed with all students about: Basics of Patent, various definitions, Objective of Patenting, Requirement/Criteria's for Patentability, Drafting of Provisional Specification, Drafting of Complete Specification, Fees for Provisional Application, Inventions which are not patentable (Section 3 & 4), Indian Patent Office, Address, Scope, services offered, Jurisdiction of each office, Patent Filing procedure in India (Forms No, Title, Purpose, fees and if any time limit), Complete Specifications, Performa of Form 1, 2 & 3 explanations for each item under all forms, How to do e-filing?, How to generate report of Patent Drafting Exercise (PDE), various forms for provisional patent filing: Form 1 (Application for Patent), Form 2 (Provisional/Complete Specification) and Form 3 Statement and Undertaking, Rules for Drawings and Case Study of Patent.

In the seminar student and faculty have been provided copy of Patent Form No: 1, 2 and 3 for their better understanding about Patent Drafting Exercise. As a future agenda and action plan institute will organize a seminar on Patent Search and Analysis Report (PSAR) and Patent Drafting Exercise (PDE) for pre-final year students before they are going for UDP/IDP.

This seminar is very helpful to the students of final year as well as the faculty members. Students have shown very good interest in this seminar. Such kind of activity will adds value to faculty member and students. All the related study material is shared with everyone.

Feedback from the participants:

- ✓ All engineering students need motivation for innovation of their technical ideas during project work. This is the great initiative effort to involve the PSAR and PDE in their project work of GTU by which students will get exploration with their technical concept and ideas. Students become highly motivated to register their innovative project work as a patent by this way GTU have contributed for technical growth of students in excellent way.

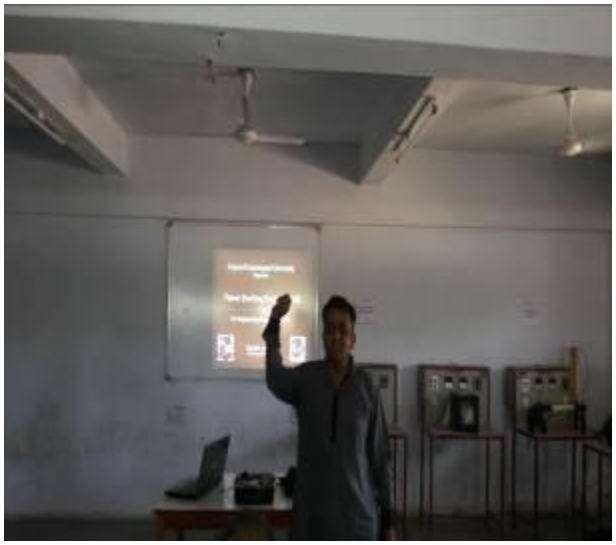
  - **Prof. D. V. Jani, Prof. A. B. Karsariya, Prof. A. R. Patel**

- ✓ Students are come to know the way of implementation of their technical innovative ideas practically. They feel the reality of technical ideas and importance of the patent to protect them. If they register their innovative work as a patent what the benefits they will get for real growth of their career.

  - **Prof. N. B. Patel, Prof. R. Y. Raval, Prof. J. S. Patel**

- ✓ Now, I am sure that I am able to register at least one patent this year as after attend the seminar of PDE. I believe that it is not that much hard and tough. Now only I got knowledge that how much it is important and beneficial to grow our career. I am very thankful to GTU and our college for this.

  - **Dhiraj Surani, Nakul Wadia**



KANKESHWARIDEVI INSTITUTE OF TECHNOLOGY - JAMNAGAR

Kankeshwaridevi Institute of Technology Jamnagar (027) under the guidance of GTU continuously provides guidelines to their final year student in their pre final and final semester when they worked out on their idea in to project. We have guided them to perform a search for patents in the area similar to their projects so that they can avoid even unintentional copying ideas and to further develop innovative projects.

Further GTU innovation council has introduced "Patent Drafting Exercise (PDE)". From our institute **Asst. Prof. Bharat Luva (CSE Dept.), Asst. Prof. Hardik Sonaiya (EE Dept.), Asst. Prof.Amit Hirpara (EE Dept.)** has attended FDP on PDE at GTU Chankheda campus on 08/03/2014, Saturday.

At our college a PDE seminar was carried out at seminar hall on **11/03/2014** for students of all branches. The seminar was taken by Mr. Bharat Luva, Mr. Amit Hirpara, Mr. Hardik Sonaiya. All the HODs were also present in this seminar. The entire faculty member appreciated that GIC has taken a very good approach for the students by introducing PSAR and PDE, and these activities are going to become a part of their final year project. More than **150 students** have attended this work shop.

Hear a brief outline of the entire seminar has been given:

- Basics of Patent
- Definitions related to patent
- Objective of Patenting
- Requirement/Criteria's for Patentability
- Inventions which are not patentable (Section 3 & 4)
- Indian Patent Office, Address, Scope, services offered, Jurisdiction of each office.
- Patent Filing procedure in India
- Performa Form 1 - Application for Patent
- Performa Form 2 - Provisional/Complete Specification

- Performa Form 3 - Statement and Undertaking
- E – Filling procedure in India and fee structure for entire Patent drafting process.

After attending this seminar students get perfect idea for the patent search methodology, Patent analysis and procedure to draft and file patent. All the students have also brief information about how to work in PDE. All students had participated actively in this program and positive feedbacks were obtained from students for this newer activity launched by GIC.

Feedback from the participants:

- It's a great seminar, will be effective to all participants. Very lucky to have heard about it.

Devluk Arpan 8th CSE student

- The content of this program was interesting. Seminar was informative, full of newer information and all topics had great value. Such programs should keep going.

H.O.D. E.C. Dept.

ALPHA COLLEGE OF ENGINEERING AND TECHNOLOGY

The Alpha College of Engineering and Technology under the guidance of GTU, has provided continuous guidance to their final year students when they have worked out their project idea. Further GTU Innovation Council has introduced "Patent Drafting Exercise" (PDE). To support this PDE GIC has organized various FDPs. From our institute **Asst. Prof. Ajaykumar Shah** (CE Department), **Asst. Prof. Amitkumar Patel** (IT Department), **Asst. Prof. Masum Chaudhari** (IT Department), **Asst. Prof. Madhusudan Barot** (ME Department), **Asst. Prof. Shraddha Patel** (CE Department) has attended this FDP on 15/02/2014, Saturday at GTU Chandkheda campus.

It is necessary that every final year student should learn about the process of patent search, analysis and drafting. So to guide the students from our college we have organized a seminar of "Patent Drafting Exercise (PDE)" on **7th April 2014, Monday** 11:30 am onwards. A team of student coordinator **Asst. Prof. Ajaykumar Shah** and **Asst. Prof. Amitkumar Patel** has successfully coordinated for organizing this seminar under the guidance of **Asst. Prof. Sagar Patel,** HOD of CE/IT Department.

In this seminar, organizers have discussed many aspects related to patent. This seminar was divided in two sessions. In first session its was organized for IT and ME streams. And second session was organized for CE, Civil and EC department. Asst. Prof. Amit Patel has given seminar for first session and Asst. Prof. Ajaykumar Shah has given seminar for second session. Asst. Prof. Amit Patel has started the session by providing basic information of patent like what is patent? Why it is important to search for patent for any research work? How to search for patent? And how to draft and apply for Patent? And in this way the entire seminar has been conducted by team and Asst. Prof. Ajaykumar Shah has given seminar for PDE.

Form 3 (Statement and Undertaking)

Feedback from the participants:

- The content of this program was interesting. Seminar was informative, full of learning and all topics had great value.

  (Joshi Dhaval, 8th semester Computer Department)

- It's a great seminar, will be effective to all participants. Very lucky to be participated in to it.

  (Patel Manthan, 8th semester IT Department)

- I felt all the topics were important and essential for everyone from technical streams and background.

  (Prof. Sagar Patel, HOD CE/IT Department)

BHAGWAN MAHAVIR COLLEGE OF ENGINEERING AND TECHNOLOGY

Mr. Rahul Gonawala, Mr Meghayu Adhvaryu, Mr. Virendra Patel, Ms Nisha Bhandari, Mr Chandresh Dodiya and **Mr Sahu** from Bhagwan Mahavir College of Engineering and Technology, Surat have attended the GTU organized workshop on PDE held on 12th April 2014 at SCET, Surat. We are thankful for the guidance given by university mentors about the PDE.

As you have guided us for the Patent Search and Analysis Report (PSAR) generation last year and we have arranged sessions for final year students from all the branches in September last year. Similarly we have planned and delivered the lectures of PDE for students from all departments in our college and all the students made aware of it.

Mr. Chandresh Dodiya from **Mechanical department** has taken the session in the

1. Mechanical Department and
2. Civil Department

Mr. Meghayu Adhvaryu from **EC department** has taken the session in the

1. Electronics and Communication Department and
2. Electronics Department

Ms. Nisha Bhandari from **Computer Science Engineering Department** has taken the session in

1. Computer Science Department

From all the departments all the final year students along with the respective HOD, faculty guides and other departmental faculty have attended this presentation session.

All participants were informed about importance and contribution for increasing the Global Innovation Index of India, where we are standing and where we should stand in the coming years. As currently we are standing at the 66th position in the world ranking in terms of the Global Innovation Index and every year we are declining, we should start awareness to improve our innovation index which is highly dependent on the new innovations and ideas which we are implementing in the final year projects and the projects from the R&D labs.

Students were informed about the importance of patents and also they were guided about how to search a relevant patent document regarding their project title and area with the help of the open source patent databases and the documents.

The main objectives of the presentation session carried out at our college were:

1. Training all the students about provisional patent filing procedure in India and how they can file their own provisional patent for their innovative project.
2. All the students were made familiarized with the basic patent filing forms 1-2 and 3.
3. Requirement of the data while filling these forms.
4. The revised fees structures from the current year for the patent filing along with the time limit associated with various operations associated in patent filing procedure in India.

Also the students were informed to draft their own patent on the website http://projects.gtuinnovationcouncil.ac.in/login.aspx

Students were also guided for the report generation and submission of the PDE report with hard binding and submission in the department. Also they were informed that the evaluation scheme for the 8th semester project is based on the PDE. Below are the snapshots of the presentation taken in different departments.

At Civil Department on **28th of April** the presentation was given by Mr. Ramgopal T Sahu (Asst. Professor, Civil Engineering Dept) the seminar was co-coordinately organized by civil Engg dept. HOD Civil Dept (Hiren D Jariwala) and other civil staff. Total **78 students** have attended the seminar along with 5 other civil staff

All of them were with same positive response and looking forward to have their project get patented. Faculty were to get the easy way to guide their student to get their work to be patented

PHOTOS:

Drafting of Patent
"A Scientific Art"

C.K.PITHAWALLA COLLEGE OF ENGINEERING & TECHNOLOGY-SURAT

The continuous guidance to final year student has provided by C. K. Pithawalla College of Engineering & Technology for their final year project. In the pre-final semester they worked out their project ideas and perform a patent search activity. In continuation, with reference to the GTU circular, PDE was carried out at seminar hall and drawing hall on **25th April 2014** in two sessions.

The seminar was taken by **Prof. Samip Shah** and **Prof. Urvi Patel** followed by the exercises and case study, which was taken by **Prof. Dr. Reena Popawala** and **Prof. Vivaksha Jariwala**. The copy of Patent Form No: 1, 2 and 3 were provided to the students and faculty for better understanding of Patent Drafting Exercises.

Following topics were covered during entire seminar: Basics of Patent, Definitions related to patent, Objective of Patenting, Requirement/Criteria's for Patentability, Inventions which are not patentable (Section 3 & 4), Indian Patent Office, Address, Scope, services offered, Jurisdiction of each office, Patent Filing procedure in India, Performa Form 1 - Application for Patent, Performa Form 2 - Provisional/Complete Specification, Performa Form 3 - Statement and Undertaking, E – Filling procedure in India and fee structure for entire Patent drafting process.

All the faculty members of C. K. Pithawalla College and students appreciated that GTU Innovation Council has taken a very good approach for the students by introducing PSAR and PDE.

Feedback from students:

- The content of this program was interesting and informative
  (Patel Nirav, 8th Sem Electrical Department).
- All the topics were important and essential for everyone from technical streams
  (Senjaliya Hardik, 8th Sem Electrical Department)

- Really a great exercise and will be helpful in great way for patent drafting

(Tejeswer Sing, 8thSem, Mechanical Engineering Department)

Photos:

Previous Reports

Previous reports published about the initiatives taken by various colleges by arranging seminars to their students are available here:

1. First such compiled report from following colleges: Veerayatan Group of Institutions – Mandvi, Kutch, Universal College of Engineering and Technology – Kalol and Shroff S.R. Institute of Chemical Technology - Vataria, Ankleshwar is available at:
   http://www.gtu.ac.in/circulars/14March/27032014_052.pdf

2. Second such compiled report from following colleges: Dr. Jivraj Mehta Institute of Technology (DJMIT) – Mogar, Amiraj College Engineering and Technology - Khoraj, Sanand and LDRP Institute of Technology and Research, Gandhinagar is available at:
   http://www.gtu.ac.in/circulars/14Apr/10042014.pdf

3. Third such compiled report from following colleges: Grow More Faculty of Engineering (GMFE), Himmatnagar, Faculty of Engineering Technology and Research - Bardoli and Valia Institute of Technology – Valia, Bharuch is available at:
   http://www.gtu.ac.in/circulars/14Apr/23042014_03.pdf

4. Fourth such compiled report from following colleges: Gandhinagar Institute of Technology – Gandhinagar, Shree Swami Atmanand Sarswati Institute of Technology – Surat, Venus International College of Technology – Gandhinagar and Samarth College of Engineering & Technology – Himmatnagar is available at:
   http://www.gtu.ac.in/circulars/14May/03052014_04.pdf
5. Fifth such compiled report from following colleges: Sabar Institute of Technology for Girls – Tajpur, Narnarayan Shastri Institute of Technology – Jetalpur and Dr. Shubhash Technical Campus – Junagadh is available at:
   http://www.gtu.ac.in/circulars/14May/15052014.pdf