Patent Search Methodology and Analysis by Final Year Engg. Students

11th report regarding seminars organized by various GTU affiliated colleges for the final year BE students to increase awareness about IPR/Patents and to guide them on how to generate <u>Patent Search & Analysis Report (PSAR)</u>

`Sardar Patel Institute of Technology–Piludara, Valia Institute of technology - Bharuch, Marwadi Education Foundation Group of Institutions - Rajkot and G.K. Bharad Institute of Engineering - Rajkot`

The seminars organized by different prominent institutions to train and guide their students about IPR/Patents, its importance and how to work on and generate Patent Search & Analysis Report (PSAR) were conducted at different Colleges by their faculty members. The faculty members, who conducted these seminars, had got training on these topics by participating in Faculty Development Programmes, organized by GTU.

This 11th report comprises of reports, GTU has received from the following colleges: **Sardar Patel Institute of Technology-Piludara, Valia Institute of technology – Bharuch, Marwadi Education Foundation Group of Institutions – Rajkot and G.K. Bharad Institute of Engineering – Rajkot,** who have conducted seminars for their students on the topics of IPR/Patents & PSAR.

These seminars and activities at different colleges are conducted to increase the awareness about IPR/Patents among all students of technical branches, and to carry out innovative projects by all students of each year, GTU Innovation Council (GIC) has launched Patent Search & Analysis Report (PSAR) activity through online project tracking system for final year BE students. In this PSAR activity each student has to student five different patents either related to his/her project work or related to his/her area of interest. After studying each patent students have to answer very basic questions about each patent to GTU's online project mentoring/ tracking website at: http://projects.gtu.ac.in/patentSearch.jsp .

<u>Sardar Patel Institute of Technology (SPIT), Piludara</u>

SPIT-Piludara had organized One Day Workshop on "Patent Search Methodology and Final Year Project Phase- III" at college campus on Wednesday , 11th September, 2013. The workshop was organized for all SPIT students and faculty. During the workshop, total 357 Students of BE - Mechanical, Civil, E&C, Automobile and Computer Engineering along with 25 faculty members took active participation.

In Morning Session, Dr. P.P Raichurkar, Principal, SPIT, Piludara delivered a talk on "Overview of importance of Patent Search". In this session discussion about IPR system, Indian Patent Survey, Value of Patent, Requirement of Prior Art requirement etc. were discussed.

Then in second session Mr. Jignesh M. Patel & Mr. Nirav. B. Patel, had given a talk on "How to Conduct Final Year Project Phase - III". Mr. Jignesh B. Prajapati, Mr. Hitesh R. Patel, Mr. Anant S. Prajapati, Mr. Chirag H. Patel and all HODs of SPIT-Piludara assisted the participants in this patent search process and Project Phase - III. Through this exercise, participants came to know whether their work is patentable or not, and their awareness for IPR/Patenting system were increased.

Mr. K.C Patel, Campus Director, motivated the students to come forward with their invention and assured that SPIT will provide all kind of support facilities for innovative projects.

Looking at the feed backs from participant's side, college have made one team per department to assist the students for Phase-III and other phases.

Valia Institute of technology - Bharuch

At Valia Institute of Technology, Mr. Hareshkumar M. Rathod - Assistant Professor EC Department had conducted a seminar on Patent Search and Analysis Report (PSAR) generation activity for student of all the branches in their college. By this seminar students got ideas in the area of IPR/Patents, Patent Search, its need and Methodology to do patent search etc. Students come to know: What is patent search?, Patent search using different database, Picking up correct Keywords, Patent documents and various parts of the same, What is search string and How to design and use search string, How to access free databases etc.
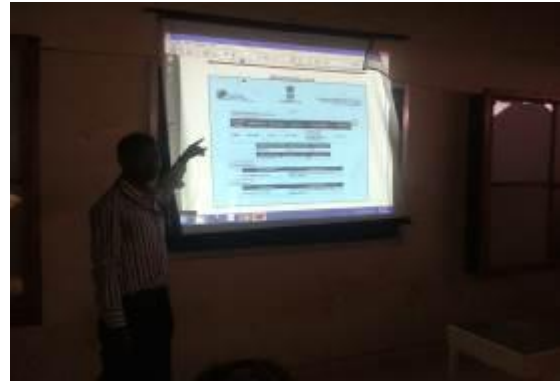
In this seminar we have made an active discussion on all the topics regarding the patent search. This seminar was very helpful to the students of the final year as well as the faculty members. Student have shown active interest in this seminar. These all things were possible by providing help, training and study material to all students and faculties of GTU affiliated colleges. The faculties who got training from any faculty development programme organized by GTU, had conducted seminars at his/her college and spread the knowledge about the IPR/Patents and PSAR activity.

After the theory session of seminar, practical training is provided to all participating students and faculties. From the future planning point of view, college is conducting a seminar on patent search for the pre-final year student before they are going to search for UDP/IDP.

<u>Marwadi Education Foundation Group of Institutions – Rajkot</u>

A training session was conducted on "Patent Search & Analysis Report (PSAR) Generation" for the final semester student of Mechanical Engineering Department at Marwadi Education Foundation's Group of institutions, Rajkot on 11th October 2013 by Prof. Nildeepsinh Chudasama and Prof. Pradyumansinh Basia. In this session the student were taught, how to search the patent from the different available sources (Free databases), and how to generate the "Patent Search & Analysis Report " in proper way. The study material related to PSAR activities, which were developed and provide by GTU have been circulated among all students. After theory and practical session their queries related to patent search and report generating were solved. The responses from students were very good and they have appreciated PSAR activity initiated by GTU Innovation Council (GIC).

Feedbacks by students

- The session was very interesting, and by this seminar we come to know the perspective of patent search and it's report preparation for our final year project.   - Kansagara Jay (student)
- The session helped us to understand in depth knowledge about patent's importance and made it easy for us to search the patent related to our IDP/UDP.   – Desai sagar (student)

G.K. Bharad Institute of Engineering – Rajkot

Mr. Hiren Kamani and Mr. Manohar Gaurav who have participated in GTU organized FDP seminar on 5th September 2013 at Atmiya Institute of Engineering about PSAR generation. At G.K. Bharad Institute of engineering – Rajkot these faculties had organized seminars on 12th September 2013 to train around 420 students from various branches, on the topics of Patent Search & Analysis Report (PSAR) activity through online project tracking system. Student from this institute have shown keen interest in this workshop. Trained faculties had given lectures to students on Patent Search Methodology and PSAR Generation activity.

Seminar was arranged under the guidance & supervision of Principal Dr. S.B. Joshi. Trained faculties have delivered self-explanatory lectures on basics of Patents, Its requirements & benefits of Patent Search for promotion of R&D activities. HODs of all branches and Udisha Club Members have also attended the seminar. The response from participating faculty members and students was very positive & they appreciated PSAR activity, initiated by GTU innovation council (GIC) at the right point of time.

Some of the faculties also mentioned that, such activities will help the students to improve, enhance & update their knowledge about new technologies in the world. in this seminar the students have been informed about: why should one be involved with patents, importance of patents in the field of research and technology, Where to find patent information/patent search, How to use that information/content, What is PSAR (Patent Search and Analysis Reports), How to prepare PSAR, How to submit PSAR, How to fill in Phase-III Project details online etc. The students have benefitted a lot from the informative content of the seminar.

Further Training and Planning:

For further training and planning college has planned to check the status of the student's PSAR preparation every week. College had already planned for online reporting system i.e. GKBIE project tracking System for PSAR submission and its monitoring.

We are trying to encourage some of faculty members to form a potential team to go for patent clinic and explore more about patent filing procedure and "Techno legal" document drafting.

Feedbacks by students & faculty members:

1. GIC has taken excellent initiative at the required point of time to make the student well aware regarding the PSAR which is indeed very useful to know how to search a patent in the relevant fields. It is not only useful for the students in the dynamic environment but also for faculty members to improve, enhance & update their skills and knowledge in the current scenario in their respective fields. As it provides nice platform for different project works.

<div align="right">(Dr. S.B Joshi, Principal-GKBIE)</div>

2. The patent search activity will help in improvement of student's project analysis, ideas and thorough understanding of the project as whole.

<div align="right">(Prof. Nirav Ranpara H.O.D. C.E & I.T Dept. and GTU Co-coordinator - GKBIE)</div>

3. This is very good activity stated by GTU. By this way students can satisfy their thirst of knowledge and details related to their project title and more clarity about their topic. Through this activity students can upgrade their project to new heights by taking information from particular patents related to their projects.

<div align="right">(Prof. Mittal Solanki H.O.D. E.C Dept. – GKBIE)</div>

4. By attending this workshop and doing work in this direction, students will be able to share and enhance their work. Students will be able to learn current scenario in the respective topic of their project.   (Prof. Pritesh Rawal, H.O.D. Civil Dept. - GKBIE)

5. Now a days, it is very important to know about the latest scenario in technology across globe as well as in India. By this activity students can be made aware about the recent trend and innovations. Also PSAR activity helps Indian academia to contribute novel work to the society. This is excellent program introduce by GIC.

(Mr. Hiren Kamani, Lecturer, IT & N/W Admin, Project Coordinator C.E & I.T Dept. - GKBIE)

6. Patent Search Activity is really good and helpful for the students as provided by GTU. Patent search Activity Improves research capabilities and interest of student. Which is being considered with a topic of project while their placement.

(Prof. Pradip Gosai, Training & Placement Officer - GKBIE)

7. Congratulations to GTU innovation council to introduce this kind of activity in first time ever in Indian academia. Surly GTU students get benefited from this activity.

(Prof. Gaurav Manohar, Mechanical Dept. - GKBIE)

8. It is very helpful for me to know more about the project on which I am working, And this activity will also be helpful for me to know about past research already done on our particular topic of project work.

(Vipul Sorathiya Student - GKBIE)

9. GTU has done a very good planning, that by this activity they made us aware about patents, it's analysis techniques etc. Further GTU is also hosting another workshop for patent filling and registering, which is also appreciable. By introducing such programs GTU has helped those students who are doing research for their projects and creating an innovative product/process.

(Ravi Chhatrala Student - GKBIE)

10. My personal opinion for this activity is that, it will surely help us to enhance our project activity. And indirectly it will help our future scope for research related to our project in light of the new technology.

(Pragna Rajyaguru Student - GKBIE)

11. This Patent search activity is very useful to me. Because of this activity I come to know about the patent application procedures.

(Milap J. Bhuva Student - GKBIE)

12. First I want to say thanks to GTU to step up in light of such activity. With the patent search activity I come to know that what kind of patents have already been filed in my branch with related technology.

(Chavda Jaydeep Student - GKBIE)

Previous Reports

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

1. First report published about seminars conducted by LJ Institute of Engg. & Technology-Ahmedabad, Smt. S. R.Patel Engg. College, Dabhi (Unjha) and SNPIT & R C- UMRAKH, http://www.gtu.ac.in/circulars/13June/Report_11thSept_PSAR.pdf

2. Second report published about seminars conducted by: Government Engineering College - Modasa, Universal College of Engineering and Technology -Gandhinagar, Ahmedabad Institute of Technology – Ahmedabad and Narnarayan Shastri Institute of Technology – Jetalpur http://gtu.ac.in/circulars/13Sept/17092013_01.pdf

3. Third report published about seminars conducted by: G H Patel College of Engineering and Technology- Vallabh Vidyanagar- Anand, Shankersinh Vaghela Bapu Institute of Technology– Gandhinagar, Kalol Institute of Technology & Research Centre-Kalol http://gtu.ac.in/circulars/13Sept/3rd%20Report_PSAR_23rd%20Sept%202013.pdf

4. Fourth report published about seminars conducted by: Government Engineering College-Dahod, Tatva Institute of Technological Studies-Modasa, Bhagwan Mahavir College of Engineering and Technology-Surat http://www.gtu.ac.in/circulars/13Sept/4th%20Report_PSAR_25th%20Sept%202013.pdf.

5. Fifth report published about seminars conducted by: K. J. Institute of Engg. and Technology - Savli, Sabar Institute of Technology for Girls- Tajpur, Parul Institute of Engineering and Technology-Baroda http://www.gtu.ac.in/circulars/13Sept/5th%20Report_PSAR_26th%20Sept%202013.pdf.

6. Sixth report published about seminars conducted by: C.U.Shah College of Engineering & Technology-Wadhawan City, Darshan Institute of Engineering & Technology–Rajkot, Faculty of Engineering Technology and Research - Isroli, http://gtu.ac.in/circulars/13Oct/030102013.pdf

7. Seventh report published about seminars conducted by: Shree Saraswati Education Sansthan, Faculty of Engineering – Rajpur, Laxmi Institute of Technology - Srigram, Alpha college of Eng & Technology – Khatraj and Chhotubhai Gopalbhai Patel Institute of Technology, Maliba Campus, Bardoli http://www.gtu.ac.in/circulars/13Oct/7thReport_PSAR_9thOct2013.pdf

8. Eighth report published about seminars conducted by: Sigma Institute of Engineering – Baroda, Sardar Vallabhbhai Patel Institute of Technology-Vasad and Madhuben & Bhanubhai Patel Women's Institute of Engineering – Anand. http://gtu.ac.in/circulars/13Oct/11102013.pdf

9. Ninth report published about seminars conducted by: Government Engg College – Bharuch, Dr. Subhash Technical Campus – Junagadh and S.P.B. Patel Engineering College – Mehsana. http://www.gtu.ac.in/circulars/13Oct/24102013.pdf

10. Tenth report published about seminars conducted by: Gandhinagar Institute of Technology – Gandhinagar, Takshashila College of Engineering and Technology – Rajkot and Veerayatan Group of Institutions Faculty of Engg.- Mandavi, Kutch http://gtu.ac.in/circulars/13Oct/10thReport_PSAR_1stNov2013.pdf