

## **CIRCULAR**

**Each Degree Engineering college, affiliated to GTU, is required to train its present 6<sup>th</sup> Semester students on PSAR (Patent Search and Analysis Report) before they go for their Industrial Visits during the summer (Industrial Shodh Yatra)**

SIGNIFICANT SUCCESSES of STUDENTS: During the surveys and workshops, conducted by GIC, it has been found that the massive PSAR efforts, at the seventh semester of BE and at the Master's program, have helped improve the innovation index of the Final Year projects (IDP/UDP) and Master's theses<sup>1</sup>.

SHODH YATRAS and SELECTION of PROBLEMS for the FINAL YEAR PROJECTS: At all good engineering colleges, the students, after appearing at the sixth semester exams, go for Shodh Yatras to the industry for finding the IDP. It may be advisable if the students learn about the Patent Search and Analysis methodology before they go out for Shodh Yatras<sup>2</sup>. This will enable them to perform patent search and analysis while they are finalizing the problem for the Final Year project.

REQUIREMENT: Every student who is presently in the 6<sup>th</sup> Semester and who is going to do IDP/UDP during the seventh semester, is required to be trained on PSAR by their faculty members before he/ she embarks upon Industrial Shodh Yatras during the summer.

GTU will highlight such capacity building workshops by good Colleges for their present 6<sup>th</sup> semester students on our web-site. Please send the Reports<sup>3</sup> to Mr. Amit Patel at [ipr\\_projectofficer@gtu.edu.in](mailto:ipr_projectofficer@gtu.edu.in).

N.B: *PSAR activity is a mandatory academic activity for all final year students as a part of their final year projects. Patent Search and Analysis and Patent Drafting Exercise are key components of IDP/UDP works.*

*Every student, as a part of his/ her project team, is required to study 5 patents related to his IDP/UDP and submit a report in online mode at the start of the 7<sup>th</sup> Semester. Every student will also be required to make an analytical report of the technological aspects of one of the 5 patents along with a presentation to explain the patent to students of his class. A print out of the PSAR of the 5 patents and a technical report on the technology of one of the 5 patents along with a presentation will be an essential part of the project report for examination.*

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<sup>1</sup>GTU Innovation Council conducted the survey and the workshops, involving a wide range of stakeholders in general and students and their guides in particular.

<sup>2</sup>The suggestion -that the students should learn about the Patent Search and Analysis methodology before they go out for Shodh Yatras - was given during the survey and the workshops by the students and the faculty members and they discussed the issue with some of the Sankul Co-Chairs and the Deans.

<sup>3</sup>Please send the Reports by e-mail with title "PSAR workshops for 6<sup>th</sup> Semester students \_14\_ college name". The reports should be in MS word with details like name of the college, date on which seminar/capacity building workshop for present 6<sup>th</sup> Sem students is conducted, the names of the faculty members, who took the sessions, the number of students who participated, feedback from the participated students and faculty members and a few good quality photographs.

## RESOURCE MATERIAL for PSAR:

1. Video lectures related to PSAR are available at [https://www.youtube.com/watch?v=X\\_y-aB7z0tA&list=PLnNDkCrMqsxl0WvGrEh3w\\_o99UInsaQka](https://www.youtube.com/watch?v=X_y-aB7z0tA&list=PLnNDkCrMqsxl0WvGrEh3w_o99UInsaQka)
2. Overview of IPR for engineering students [https://www.youtube.com/watch?v=P70EJkELI90&list=PLnNDkCrMqsxmtRZwiflRri38ykv\\_tcqJxn](https://www.youtube.com/watch?v=P70EJkELI90&list=PLnNDkCrMqsxmtRZwiflRri38ykv_tcqJxn)
3. At <https://www.youtube.com/user/gtuinnovationcouncil> a number of videos, including the above two are available.

## PSAR on the GTU web-site:

1. Analysis of PSAR ( Patent Search and Analysis Report) efforts made by Degree Engineering Colleges at <http://www.gtu.ac.in/circulars/13Nov/22112013.pdf>
2. Report on uploading the PSAR reports by students of Degree Engineering Colleges at [http://www.gtu.ac.in/circulars/13Oct/01112013\\_01.pdf](http://www.gtu.ac.in/circulars/13Oct/01112013_01.pdf)
3. A newsreport on PSAR at <http://epaper.timesofindia.com/Default/Layout/Includes/MIRRORNEW/ArtWin.asp?From=Archive&Source=Page&Skin=MIRRORNEW&BaseHref=AMIR%2F2013%2F11%2F11&ViewMode=HTML&PageLabel=5&EntityId=Ar00501&AppName=1>

## Annexure-1

### **Performance report of all degree engineering colleges affiliated to GTU based on the activities in PSAR ( Patent Search and Analysis Report) in the last academic year 2013-2014 ( performance aiming at the 7<sup>th</sup> Semester students of 2013-14 batch)**

The data of various PSAR workshops have been analysed carefully by Team IPR at GTU. (Wherever the regional workshops were hosted by a College, the number of faculty members, who may have participated may be high.)

The expectation was that the faculty members, who were trained at the workshops organized by GTU, would take the learning to the classrooms of the respective colleges. The last column shows whether the College has sent a report about the seminars conducted for their students.

We have highlighted the colleges (yellow marked)

- 1) which have not been able to send their faculty members to the workshops, organized by GTU and
- 2) which have not reported that they have carried the learning process for PSAR to the students in the classrooms through local seminars for their own students.

The regional PSAR workshops were held at:

<u>Date Hosting</u>	<u>Place</u>
1. 07/09/2013	LDCE-Ahmedabad
2. 21/09/2013	LDCE- Ahmedabad
3. 28/09/2013	MBICT-Anand
4. 05/10/2013	Atmiya College- Rajkot
5. 19/10/2013	SCET- Surat

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College Code	Name of college	Zone	Total Trained Faculty	Sent Report about organizing seminar for students on PSAR
1	A D PATEL INSTITUTE OF TECHNOLOGY, KARAMSAD, ANAND	3	8	NO
2	Ahmedabad Institute of Technology	1	6	YES
3	ATMIYA INSTITUTE OF TECHNOLOGY & SCIENCE	4	25 (PSAR host: 05/10/2014)	NO
4	B.H. Gardi College of Engg. & Tech. Rajkot	4	2	NO
5	Babaria Institute of Technology	3	0	NO
6	Bhagwan Mahavir College of Engineering & Technology	5	10	YES
7	BIRLA VISHVAKARMA MAHAVIDYALAYA	3	11	NO
8	BIRLA VISHVAKARMA MAHAVIDYALAYA	3	0	NO
9	C.K.Pithawala College of Engineering & Technology	5	5	NO
11	G H PATEL COLLEGE OF ENGINEERING & TECHNOLOGY	3	5	YES
12	Gandhinagar Institute of Technology	2	4	YES

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College Code	Name of college	Zone	Total Trained Faculty	Sent Report about organizing seminar for students on PSAR
13	GOVERNMENT ENGINEERING COLLEGE, SECTOR NO.- 28, GANDHINAGAR	2	0	NO
14	Government Engineering College, Bharuch	5	3	YES
15	government engineering college, bhuj	4	4	NO
16	Government Engineering College, Modasa	2	7	YES
17	Vishwakarma Government Engineering College	2	5	NO
18	Government Engineering College, Dahod	3	3	YES
19	GOVERNMENT ENGINEERING COLLEGE,VALSAD	5	3	NO
20	Government Engineering College,Rajkot	4	0	NO
21	Government Engineering College Bhavnagar	1	3	NO
22	Government Engineering College-Katpur-PATAN	2	3	NO
23	Dr. S & . S. S. Ghandhy Govt. Engg. College, Surat	5	3	NO

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24	Hasmukh Goswami College of Engineering	1	3	NO
25	INDUS INSTITUTE OF ENGINEERING & TECHNOLOGY,	1	1	NO
26	KALOL INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE	2	10	YES
27	KANKESHWARIDEVI INST OF TECHNOLOGY,	4	4	NO
28	L.D.COLLEGE OF ENGINEERING	1	0	NO
29	Laljibhai Chaturbhai Institute of Technology, Bhandu	2	0	NO
30	LEELABEN DASHARATHBHI RAMDAS PATEL INSTITUTE OF TECHNOLOGY AND RESEARCH	2	3	NO
31	L.E.COLLEGE MORBI	4	8	NO
32	L. J. Institute of Engineering & Technology	1	3	YES
33	Mahatma Gandhi Institute of Technical Education and Research Centre	5	7	NO
34	NARANARAYAN SHASTRI INSTITUTE OF TECHNOLOGY	1	5	YES

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35	NOBLE ENGINEERING COLLEGE - JUNAGADH	4	1	NO
36	SANJAYBHAI RAJGURU COLLEGE OF ENGINEERING	4	6	NO
37	Parul Institute of Engineering & Technology - (Degree)	3	7	YES
38	R. K. COLLEGE OF ENGINEERING AND TECHNOLOGY,	4	11	NO
39	S.P.B.PATEL ENGINEERING COLLEGE,LINCH MEHSANA	2	3	YES
40	Sankalchand Patel College of Engineering, Visnagar	2	1	NO
41	Sardar Vallabhbhai Patel Institute of Technology	3	4	YES
42	Sarvajanik College of Engineering & Technology	5	52 (PSAR host: 19/10/2013)	NO
43	SHANTILAL SHAH ENGINEERING COLLEGE, BHAVNAGAR	1	3	NO
44	C U SHAH COLLGE OF ENGINEERING & TECHNOLOGY	1	5	YES
45	Shri S'ad Vidya Mandal Institute of Technology	5	5	NO

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46	Universal college of Engineering and technology	1	7	YES
47	V. V. P. Engineering College	4	20	NO
48	Valia Institute of Technology, Valia	5	2	YES
49	SITARAMBHAI NARANJI PATEL INSTITUTE OF TECH. & RESEARCH CENTRE, UMRAXH-BARDOLI	5	4	YES
50	SIGMA INSTITUTE OF ENGINEERING	3	4	YES
51	ALPHA COLLEGE OF ENGINEERING & TECHNOLOGY	2	3	YES
52	CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY, VATVA, AHMEDABAD	1	1	NO
53	Chhotubhai Gopalbhai Patel Institute of Technology	5	8	YES
54	Darshan Institute of Engineering & Technology	4	3	YES
55	Engineering College, Tuwa	3	0	NO
56	Grow More Faculty Of Engineering	2	3	YES



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57	MARWADI EDUCATION FOUNDATION'S GROUP OF INSTITUTIONS,RAJKOT	4	7	YES
58	Faculty of Engineering, Shree Saraswati Education Sansthan's Gro up of Institutions	2	2	YES
59	G.K.Bharad Institute of Engineering	4	3	YES
60	government engineering college,godhra	3	2	NO
61	Government Engineering College, Palanpur	2	0	NO
62	Gujarat Inst. of Technical Studies	2	2	NO
63	Madhuben & Bhanubhai Patel Women Institute of Engineering For Studies & Research in Computer & Communication Technology	3	72 (PSAR host : 28.09.2013)	YES
64	K.J.INSTITUTE OF ENGINEERING & TECHNOLOGY, SAVLI	3	5	YES
65	Merchant Engineering College, Basna	2	5	NO
66	sabar institute of technology for girls	2	6	YES
67	sal institute of thechonology & engineering research	1	3	NO

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68	SARDAR PATEL INSTITUTE OF TECHNOLOGY, PILUDARA, MEHSANA	2	1	YES
75	Shankerin Vaghela Bapu Institute of Technology	2	8	YES
76	SHREE SWAMI ATMANAND SARASWATI INSTITUTE OF TECHNOLOGY	5	2	NO
77	SILVER OAK COLLEGE OF ENGINEERING & TECHNOLOGY	1	4	NO
78	Smt. S. R. Patel Enggineg College, Dabhi-Unjha	2	1	YES
79	Takshashila college of Eng. And Tech.	4	2	YES
80	Vadodara Institute of Engineering	3	4	NO
81	Venus International College of Technology	2	2	NO
82	Dr. Jivraj Mehta Institute of Technology	3	8	NO
83	Dr. Subhash Technical Campuc	4	6	YES
84	FACULTY OF ENGINEERING TECHNOLOGY AND RESEARCH	5	5	YES

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85	HJD Institute of Technical Education and Research	4	2	NO
86	LAXMI INSTITUTE OF TECHNOLOGY	5	8	YES
87	PARUL INSTITUTE OF TECHNOLOGY	3	7	YES
88	SAMARTH COLLEGE OF ENGINEERING & TECHNOLOGY	2	0	NO
89	Shri Labhubhai Trivedi Institute of Engineering and Technology	4	3	NO
90	TATVA INSTITUTE OF TECHNOLOGICAL STUDIES, MODASA	2	6	YES
91	SHREE SATSANGI SAKETDHAM "RAMASHRAM" GROUP OF INSTITUTIONS	2	6	NO
92	Veerayatan Group of Institutions F.O.E. & F.O.M.	4	2	YES
93	Arrdekta Institute of Technology	2	0	NO
94	VIDHYADEEP INSTITUTE OF MANAGEMENT & TECHNOLOGY, ANITA (KIM)	5	0	NO
95	Institute of Technology & Management Universe, Vadodara	3	0	NO

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96	ARUN MUCHHALA ENGINEERING COLLEGE, DHARI, DIST: AMRELI	4	0	NO
97	MARWADI EDUCATION FOUNDATION'S GROUP OF INSTITUTIONS-FACULTY OF TECHNOLOGY, RAJKOT	4	6	YES
98	HANSABA COLLEGE OF ENGINEERING & TECHNOLOGY	2	4	NO
99	Shroff S.R.Rotary Institute Of Chemical Technoloy	5	0	NO
100	LEADS INSTITUTE OF TECHNOLOGY & ENGINEERING	3	0	NO
101	IPCOWALA INSTITUTE OF ENGINEERIN+C103G AND TECHNOLOGY	3	0	NO
102	OM Engineering College	4	0	NO
103	OM INSTITUTE OF TECHNOLOGY,VANTAVACHHODA,PANCHAMAHA L	3	0	NO
104	GUJARAT POWER ENGINEERING AND RESEARCH INSTITUTE	2	0	NO
107	SHRI J. M. SABVA INSTITUTE OF ENGINEERING & TECHNOLOGY - BOTAD	1	0	NO
108	AMIRAJ COLLEGE OF ENGINEERING & TECHNOLOGY	1	0	NO

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109	Balaji Engineering College	4	0	NO
110	GIDC Degree Engineering College	5	0	NO
111	MAHAVIR SWAMI COLLEGE OF ENGINEERING AND TECHNOLOGY SURAT	5	5	NO
112	PACIFIC SCHOOL OF ENGINEERING	5	0	NO
113	SAL College of Engineering	1	0	NO
114	Shree Pandit Nathulalji Vyas Technical Campus	1	0	NO
115	SWAMINARAYAN COLLEGE OF ENGINEERING & TECHNOLOGY(DEGREE)	2	2	NO
116	Marwadi Education Foundation - Faculty of PG Studies & Res. in Engg. & Tech., Rajkot	4	0	YES
117	NEOTECH INSTITUTE OF TECHNOLOGY	3	0	NO
118	D.A. Degree Engineering & Technology	3	0	NO
119	Electronics & Mechanical Engineering School, Vadodara	3	0	NO