GTU INNOVATION COUNCIL

Analysis of IDP/UDP/Final year projects of academic year 2013-2014

based on the database of online project submissions by Final Year students of BE

During the last academic year 12063 teams of 32535 students, who had done either IDP/UDP projects, submitted their full reports at GTU project tracking system. Students from a total 106 engineering colleges have submitted the data as a part of their academic process.

The analysis brings out the success of the GTU community in involving as many as 5199 industry mentors, at various stages of the project development, to help the young teams. **The Principals/ Directors, HODs and the faculty members have to make efforts to continue the involvement of these 5199 industry mentors in the departments and class-rooms, while making efforts to bring more mentors into their College and Departments.**

GREAT EFFORT FOR INNOVATION: As an academic requirement during 7th Semester to improve the novelty of each IDP/UDP, final year project we had introduced PSAR (Patent Search and Analysis Report) exercise. A total of 35,330 no of students submitted duly completed PSAR reports in this online project tracking system at university. A total of 178756 no of patents from Indian patent office, US patent office, European patent office and others were studied by the students. This is 1st of its kind achievement by GTU across the nation. This makes GTU to be one of the most IP-literate affiliating-type universities in the whole country.

To help students in drafting provisional patent filing (in some case detailed patent filing) GTU had introduced a mechanism of mock PDE (Patent Drafting Exercise) where each team, after completion of their 8th Semester project, went through a mock patent drafting process. We have got a huge response across the colleges based on these interventions. A total of 11,028 teams of final year BE students have submitted their thoroughly done PDE report in the online platform.

ANALYSIS: We have found that the average team size per team including IDP and UDP is nearly three. From the data of faculty guides across all colleges, it has been found that on an average three teams have been guided by each faculty member. Out of the total 12063 final year projects 5199 are IDP and 5647 are UDPs.

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REQUIREMENT FROM EVERY FACULTY, HOD, PRINCIPAL/ DIRECTOR: All the colleges are required to see that originality and novelty of THE Final Year projects is verified before the projects are accepted. One good practice, being followed in some of the Colleges, is to invite experts from the industries and academia, with expertise in the field related to the project, to validate the novelty and originality of the projects. This may be done within a month of the start of the project so that a student may have time, if he is asked to make the necessary changes.

The college authorities and faculty guides are supposed to initiate strong action if the project suffers from plagiarism or if the project is found to be an exact repetition of an earlier project or if the project has been taken from a third party directly.

Sr. no	Name of Branch	No of IDPs	No of UDPs	% IDP
1.	Textile Technology	18	4	81.81
2.	Production Engineering	30	8	78.94
3.	Computer Engineering	1462	500	75.51
4.	Information Technology	927	409	69.38
5.	Metallurgy Engineering	28	13	68.29
6.	Computer Science & Engineering	437	220	66.51
7.	Plastic Technology	5	3	62.5
8.	Instrumentation & Control Engineering	94	58	61.84
9.	Chemical Engineering	101	79	56.12
10.	Manufacturing Engineering	3	3	50
11.	Electrical & Electronics Engineering	42	58	42
12.	Electronics & Communication Engineering	868	1298	40.07
13.	Environment Engineering	8	15	34.78
14.	Mechanical Engineering	646	1241	34.23
15.	Rubber Technology	2	4	33.33
16.	Information & Communication Technology	11	23	32.35
17.	Mechatronics Engineering	8	17	32
18.	Power Electronics	8	19	29.62
19.	Mechanical	5	12	29.41
20.	Electronics Engineering	15	37	28.84
21.	Bio Technology	2	5	28.57
22.	Civil Engineering	247	682	26.58
23.	Electrical Engineering	210	724	22.48
24.	Automobile Engineering	23	92	20
25.	Electronics & Telecommunication Engineering	4	33	10.81

26.	Food Processing Technology	1	17	5.55
27.	Bio Medical Engineering	1	30	3.22
28.	Aeronautical Engineering	0	20	0
29.	Mining Engineering	0	10	0

Sr.No	Name of college affiliated to GTU in BE course	IDP	UDP	Percentage of IDP
1.	Sabar Institute Of Technology For Girls, Tajpur	195	24	89.04
2.	Vyavasayi Vidya Pratishthans Sanch. College Of Engineering	143	28	83.62
3.	Babaria Institute Of Technology, Varnama	124	30	80.51
4.	Universal College Of Engineering & Technology	129	37	77.71
5.	Takshshila College Of Engineering & Technology	84	30	73.68
6.	Gandhinagar Institute Of Technology, Gandhinagar	148	59	71.49
7.	Kalol Institute Of Technology & Research Centre	104	42	71.23
8.	K. J. Institute Of Engineering And Technology	59	29	67.04
9.	Sankalchand Patel College Of Engineering, Visnagar	111	56	66.46
10.	Darshan Institute Of Engineering & Technology	90	47	65.69
11.	Government Engineering College, Sector - 28, Gandhinagar	162	86	65.32
12.	Sardar Vallabhbhai Patel Institute Of Technology	166	90	64.84
13.	Faculty Of Engineering, Grow More Foundation Group	32	19	62.74
14.	Tatva Institute Of Technological Studies, Modasa	54	35	60.67
15.	Laljibhai Chaturbhai Institute Of Technology	74	48	60.65
16.	Samarth College Of Engineering And Technology	55	36	60.43
17.	Hasmukh Goswami College Of Engineering	92	62	59.74
18.	Shri Satsangi Saketdham Ram Ashram Group Of Institutions	61	43	58.65
19.	Marwadi Education Foundations Group Of Institution	89	63	58.55
20.	Parul Institute Of Technology	59	43	57.84
21.	Alpha College Of Engineering & Technology	82	60	57.74
22.	Central Institute Of Plastics Engineering & Technology	8	6	57.14
23.	C. U. Shah College Of Engineering & Technology	58	46	55.76
24.	Gujarat Institute Of Technical Studies	45	36	55.55
25.	S. P. B. Patel Engineering College, Mehsana	57	46	55.33
26.	Government Engineering College, Modasa	134	111	54.69
27.	Leelaben Dashrathbhai Ramdas Patel Institute Of Technology	153	127	54.64
28.	Shankersinh Vaghela Bapu Institute Of Technology	78	66	54.16

29.	Vadodara Institute Of Engineering, Kotambi	90	78	53.57
30.	Parul Institute Of Engineering & Technology	149	130	53.4
31.	L. J. Institute Of Engineering And Technology	71	64	52.6
32.	Dr. Jivraj Mehta Institute Of Technology, Mogar	44	40	52.38
33.	Ahmedabad Institute Of Technology, Ahmedabad	69	63	52.27
34.	R. K. College Of Engineering And Technology	106	103	50.71
35.	Laxmi Institute Of Technology	36	35	50.7
36.	Government Engineering College, Valsad	58	57	50.43
37.	G. K. Bharad Institute Of Engineering, Rajkot	55	56	49.54
38.	Merchant Engineering College, Basna, Visnagar	54	55	49.54
39.	Venus International College Of Technology, Gandhinagar	58	61	48.73
40.	Sal Institute Of Technology & Engineering Research	70	78	47.29
41.	Government Engineering College, Rajkot	86	99	46.48
42.	Indus Institute Of Technology & Engineering	70	81	46.35
43.	Government Engineering College, Patan	55	64	46.21
44.	L. D. College Of Engineering, Ahmedabad	176	209	45.71
45.	Narnarayan Shastri Institute Of Technology	67	82	44.96
46.	Sigma Institute Of Engineering, Vadodara	58	71	44.96
47.	Noble Group Of Institutions, Junagadh	61	77	44.2
48.	Silver Oak College Of Engineering & Technology	52	69	42.97
49.	Shantilal Shah Engineering College, Bhavnagar	76	101	42.93
50.	Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar	70	96	42.16
51.	Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar	17	25	40.47
52.	Faculty Of Engineering, Shree Saraswati Edu. Sansthan	35	52	40.22
53.	Atmiya Institute Of Technology & Science, Rajkot	56	84	40
54.	Smt. S. R. Patel Engineering College	27	43	38.57
55.	Shri Labhubhai Trivedi Institute Of Engineering & Technology	25	41	37.87
56.	Sardar Patel Institute Of Technology, Piludara	44	75	36.97
57.	Vishwakarma Government Engineering College, Chandkheda	56	99	36.13
58.	B. H. Gardi College Of Engineering & Technology	47	99	32.19
59.	Government Engineering College, Dahod	16	35	31.37
60.	G. H. Patel College Of Engineering & Technology	55	122	31.07
61.	Chhotubhai Gopalbhai Patel Institute Of Technology	33	75	30.55
62.	Government Engineering College, Bhavnagar	26	62	29.54
63.	Hjd Institute Of Technical Education And Research,Kutch	20	48	29.41
64.	Government Engineering College, Palanpur	15	38	28.3
65.	Om Shanti Engineering College, Rajkot	21	54	28

66.	Shri S-ad Vidya Mandal Institute Of Technology	27	71	27.55
67.	C. K. Pithawalla College Of Engineering & Technology	28	74	27.45
68.	Vidyabharti Trust, Institute Of Technology & Research Centre	25	67	27.17
69.	Engineering College, Tuwa, Godhara	22	60	26.82
70.	Lukhdhirji Engineering College, Morbi	17	52	24.63
71.	Sarvajanik College Of Engineering & Technology	36	112	24.32
72.	Government Engineering College, Surat	21	66	24.13
73.	Shri Swami Atmanand Saraswati Institute Of Technology	28	88	24.13
74.	Faculty Of Engineering ,technology And Research, Bardoli	15	50	23.07
75.	Bhagwan Mahavir College Of Engineering & Technology	18	62	22.5
76.	Government Engineering College, Bharuch	27	96	21.9
77.	Madhuben And Bhanubhai Patel Women Institute Of Engineering	42	153	21.53
78.	Mahatma Gandhi Institute of Technical education & Research Center	20	75	21.05
79.	Kankeshwaridevi Institute Of Technology, Jamnagar	8	33	19.51
80.	Valia Institute Of Technology,valia, Bharuch	13	54	19.4
81.	Dr. Subhash P. Chavda Ahir Kelvani Mandals Group Of Institution	13	62	17.33
82.	Government Engineering College, Bhuj	18	86	17.3
83.	Government Engineering College, Godhara	7	40	14.89
84.	Veerayatan Group Of Institutions-faculty Of Engineering	6	35	14.63
85.	A. D. Patel Institute Of Technology, Karamsad	25	154	13.96

No of B.E. students who completed the Final Year project in 2014 – segregated according to the year of registration:

2008	283*
2009	2041*
2010	23992
2011	6201**

Thus 30,193 (92.85%) students out of 32,517 are regular students, who have completed the BE program in the minimum stipulated time.

These are students, who have taken more than 4 years to complete the GTU's BE program.

**These may be students, who directly joined the second year of the BE program.

No of teams of students who pursued the same project both in the 7th and the 8th Semester of their BE final year : **9325** teams

Faculty: No of Teams guided by a faculty member in a particular college (Average)

Sr.no	College Name	No of projects guided by a faculty member
1.	Madhuben And Bhanubhai Patel Women Institute Of Engineering	2.12
2.	Dr. Subhash P. Chavda Ahir Kelvani Mandals Group Of Institution	2.34
3.	Ahmedabad Institute of Technology	2.62
4.	Sankalchand Patel College Of Engineering, Visnagar	2.62
5.	C. U. Shah College Of Engineering & Technology	2.63
6.	Gujarat Institute Of Technical Studies	2.69
7.	A. D. Patel Institute Of Technology, Karamsad	2.77
8.	Leelaben Dashrathbhai Ramdas Patel Institute Of Technology	2.78
9.	Vadodara Institute Of Engineering, Kotambi	2.8
10.	Shantilal Shah Engineering College, Bhavnagar	2.86
11.	Atmiya Institute Of Technology & Science, Rajkot	2.87
12.	Marwadi Education Foundations Group Of Institution	2.88
13.	R. K. College Of Engineering And Technology	2.9
14.	Vyavasayi Vidya Pratishthans Sanch. College Of Engineering	2.92
15.	Government Engineering College, Bhavnagar	2.93
16.	Government Engineering College, Godhara	2.93
17.	S. P. B. Patel Engineering College, Mehsana	2.95
18.	Universal College Of Engineering & Technology	2.95
19.	Alpha College of Engineering and Technology	3
20.	G. H. Patel College Of Engineering & Technology	3.04
21.	Engineering College, Tuwa, Godhara	3.05
22.	Kalol Institute Of Technology & Research Centre	3.06
23.	B. H. Gardi College Of Engineering & Technology	3.07
24.	Government Engineering College, Rajkot	3.16
25.	Government Engineering College, Sector - 28, Gandhinagar	3.16
26.	Noble Group Of Institutions, Junagadh	3.18
27.	Gandhinagar Institute Of Technology, Gandhinagar	3.2
28.	Silver Oak College Of Engineering & Technology	3.22
29.	Darshan Institute Of Engineering & Technology	3.26
30.	Shri Labhubhai Trivedi Institute Of Engineering & Technology	3.26

31.	Laljibhai Chaturbhai Institute Of Technology	3.27
32.	Takshshila College Of Engineering & Technology	3.27
33.	Faculty Of Engineering, Grow More Foundation Group	3.28
34.	Shri Satsangi Saketdham Ram Ashram Group Of Institutions	3.29
35.	Indus Institute Of Technology & Engineering	3.3
36.	Hjd Institute Of Technical Education And Research,Kutch	3.35
37.	Sardar Vallabhbhai Patel Institute Of Technology	3.35
38.	Parul Institute Of Technology	3.37
39.	Tatva Institute Of Technological Studies, Modasa	3.38
40.	Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar	3.4
41.	Shankersinh Vaghela Bapu Institute Of Technology	3.41
42.	Government Engineering College, Patan	3.43
43.	Smt. S. R. Patel Engineering College	3.45
44.	Sardar Patel Institute Of Technology, Piludara	3.5
45.	Venus International College Of Technology, Gandhinagar	3.51
46.	Lukhdhirji Engineering College, Morbi	3.55
47.	Parul Institute Of Engineering & Technology	3.56
48.	Sal Institute Of Technology & Engineering Research	3.6
49.	K. J. Institute Of Engineering And Technology	3.64
50.	L. D. College Of Engineering, Ahmedabad	3.65
51.	Veerayatan Group Of Institutions-faculty Of Engineering	3.65
52.	Om Shanti Engineering College, Rajkot	3.69
53.	Government Engineering College, Modasa	3.7
54.	Vishwakarma Government Engineering College, Chandkheda	3.73
55.	Faculty Of Engineering, Shree Saraswati Edu. Sansthan	3.76
56.	Laxmi Institute Of Technology	3.78
57.	Samarth College Of Engineering And Technology	3.78
58.	Sabar Institute Of Technology For Girls, Tajpur	3.79
59.	Bhagwan Mahavir College Of Engineering & Technology	3.82
60.	Valia Institute Of Technology,valia, Bharuch	3.9
61.	Government Engineering College, Dahod	3.92
62.	Hasmukh Goswami College Of Engineering	3.933
63.	Babaria Institute Of Technology, Varnama	3.94
64.	L. J. Institute Of Engineering And Technology	4.02
65.	Kankeshwaridevi Institute Of Technology, Jamnagar	4.03
66.	Sigma Institute Of Engineering, Vadodara	4.03
67.	Sarvajanik College Of Engineering & Technology	4.08

68.	Government Engineering College, Palanpur	4.09
69.	Government Engineering College, Valsad	4.09
70.	Shri S-ad Vidya Mandal Institute Of Technology	4.09
71.	Government Engineering College, Surat	4.11
72.	C. K. Pithawalla College Of Engineering & Technology	4.14
73.	Chhotubhai Gopalbhai Patel Institute Of Technology	4.15
74.	Narnarayan Shastri Institute Of Technology	4.16
75.	Government Engineering College, Bhuj	4.24
76.	Dr. Jivraj Mehta Institute Of Technology, Mogar	4.29
77.	Government Engineering College, Bharuch	4.36
78.	Merchant Engineering College, Basna, Visnagar	4.52
79.	Faculty Of Engineering ,technology And Research, Bardoli	4.57
80.	Central Institute Of Plastics Engineering & Technology	4.72
81.	Vidyabharti Trust, Institute Of Technology & Research Centre	4.94
82.	Mahatma Gandhi Institute of Technical education & Research Center	5.08
83.	G. K. Bharad Institute Of Engineering, Rajkot	5.17
84.	Shri Swami Atmanand Saraswati Institute Of Technology	5.4