

## 7.2.1 – Describe at least two institutional best practices

Response:

## Title: Learning by doing through professional student organizations

## **Objectives:**

In line with the vision of the Institute, the practice of learning by doing was initiated with an objective:

- To provide an immersive-participant-focused, multidisciplinary learning, leading to holistic development of the students.
- To provide an opportunity for students to interact with fellow students from various engineering disciplines and develop team-spirit, leadership, and practical skills and understand industry best practices.
- To foster new areas of interest, out of the box thinking, enhance problem solving skills

## The Context:

In the globalized digital world, the knowledge is no longer confined to experts, rather computer and internet connectivity has empowered every student to look for anything and everything and has led to change in the learning pedagogy. To keep pace with the needs of the learners, it is imperative to give equal importance to learning outside the classroom and encourage students to build their own interdisciplinary pathway. Further, the gap between academics and the needs of employers has also widened. This gap in education and practice for engineers has led to implementations of new student centric approaches in teaching and learning to improve their employability.

The traditional classroom teaching supplemented with interdisciplinary teaching and learning can help in addressing students' individual differences and develop important, transferable skills. These changing needs of the learner have to be addressed and can be achieved through the activities driven by the student



organizations which fosters love for learning and also addressing learning differences between industry and academia.

## The Practice:

Considering the limitation of being an affiliated institute and with little control over the curriculum, we at SIESGST have created a road map to address this issue by organizing activities through student organizations in a planned and structured manner which provides all the students with a platform that is dynamic, competitive, and yet encouraging enough for their holistic growth. The unique structure and functioning of student organizations not only provide a platform to showcase their talents, but also helps them to learn skills which go a long way in their life. The students get a chance to move to leadership roles from being mere members in four years.

The student organization at SIESGST brings together the engineering community to build the future generation of engineers needed by the industry. Every department at SIES GST is associated with a professional chapter like IEEE, IETE, CSI, SAE, etc. In addition, there are many activity clubs for coding, Robotics, App and Web Development and an Innovation cell. Every professional chapter is run by student governance team and faculty mentor. The students can join these organizations based on their interests.

Every team sets an objective and plans activities every semester with a focus on the problem-solving skills, and innovation in engineering. The activity includes seminars and lectures by industry professionals, hands on workshops, competitions, publishing newsletters and technical blogs, to name a few. The peer learning is encouraged through GST developer program

To inculcate among students a sense of responsibility, good interpersonal and leadership skills,

every student organization is expected to maintain a professional decorum and work in a systematic manner keeping in mind the academic expectations of the institute.



The student council functions as the apex body and coordinates with all the student organizations to ensure smooth execution .Every student organization also does its bit in giving back to society. They conduct many technical workshops for school children. They also contribute to the Institute's social responsibility, Project Beacon, by teaching skills to the underprivileged.

## **Evidence of Success**

The IEEE student body has been conducting many technical and non-technical events since 2009 and this year has received grants and has been awarded the best IEEE chapter in Mumbai region. All our national level events organized under various student bodies have grown bigger and better, creating a brand for themselves by attracting students from other states. The ISHRAE and SAE chapters have not only provided experiential learning opportunities to our students but has also helped bag some attractive jobs. The Web and App team has developed inhouse ERP solutions for students and portal to improve alumni registrations. Every year, the Code Chef team members have been placed in incredibly good companies have done well in the coding competitions like TCS codevita.

These activities have created an innovation ecosystem that has helped us in getting four-star status by MHRD IIC and increased the number of winners at national and international hackathons.

The workshops and seminars by industry experts have helped students understand about industry practices and getting internships and projects.

The small step of taking student organization beyond merely organizing events to being a learning platform has taught students to multi-task and to balance their academics and extra and co-curricular activities well.

Problems Encountered and Resources Required

It is a challenge to motivate students and faculty as managing time for these activities in an engineering curriculum is difficult and they have to be carried out after college hours or on weekends. Generation of funds to carry out these



activities is yet another problem as funds allotted by the Institute are not sufficient to carry out these activities.

## Future Plan

With the stage set for innovation, the next step is to create technopreneurs in line with the nation's goal of Atmanirbhar Bharat.

## **Title: MENTORING SYSTEM FOR STUDENTS**

# **Objective:** To minimize dropouts, improve overall performance and help students cope with stress through personal counselling.

## The Context

The transition from high school to engineering education can be a stressful experience for many adolescents. This may include fear of bullies, a feeling of being lost, peer relationship worries, and anxiety over coping with increased workload. These concerns can directly impact their academic performance.

The engineering course is a time bound course with time limitations to complete your work, especially during the first two years and some students undergo various problems coping up with the engineering curriculum and the demands of education. Sometimes, the economic and educational background of students too can result in the development of several complexes in them due to inhibitions which may impact their performance. Considering the student teacher ratio in classrooms, it is impossible, at times, to give personal attention to students in the class to address some of the sensitive issues that bother them. One solution therefore is a 'Mentor' who can form a bond with students in the true sense. Mentoring is required for students to achieve emotional stability and to promote clarity in thinking and decision making for overall progress. The mentors can also give career guidance and play a major role in helping students achieve their professional goals.

## The Practice



The practice is that of creating an efficient mentor-mentee system. Each teacher is assigned 15-20 students for the complete duration of their study. They meet at least once a week to discuss, clarify and primarily to share various problems which may be personal, domestic, academic, etc. The mentors encourage the students to participate in co-curricular and extra-curricular activities and sports. All their performances, both academic and other activities, are recorded. Students are instructed to inform their mentors about all their movements, like their absence from college, sickness, etc. The mentors also keep in touch with the parents on their attendance, test performance, fee payment, and examinations, among other things. The Mentee details are recorded and maintained in a well-designed mentee card so that the teacher is equipped with all the necessary information about his/her mentee. The teacher involves local guardians and parents as well whenever necessary for any advice or help. At the end of every semester, the mentors prepare a report of their mentees' progress. The mentors also counsel the students who encounter emotional problems. The Mentors take special care of weak learners, who are given advice on how to study, prepare a timetable for their study, besides clarifying their doubts and giving notes to study. The bright learners are encouraged to take up additional courses offered through MOOCs platform. They are also encouraged to participate in extra and co-curricular activities as per their interest. The mentor keeps a record of all the interactions and in cases where the mentor is not able to address the issues, he/she takes the help of senior faculty members or the Head of the department for further counselling. In extreme cases, professional help is sought.

## **Evidence of Success**

It is needless to say that a mentor gets immense job satisfaction through this active participation with the students. Evidence of success of the practice includes improvement in university ranks, better results in the examinations, more regular attendance, less dropouts, increased participation in co-curricular and extra-curricular activities, better discipline on campus and a respectful relationship between teachers and students. The students are more relaxed and have a healthy relationship with the faculty members.



## **Problems Encountered and Resources Required**

This practice requires a well-committed teaching staff that has the desire to help students beyond teaching hours. There are no limitations or constraints faced during the implementation of the program



# Best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

## 1. Mentor – Mentee Scheme:

Graduate School of		rul Navi Mumbai RMATION SHEET ROLL No.     5 A J	099
Name: Vipul Singh Ra	ghuvar	rshi Da	te of Birth : 08/ 11 / 1997
Year of Admission : 2015		М	other Tongue: Hindi
Present Address		Father's Details	Mother's Details
L-431 Sector-2 Airoli', Navi Mumbai Mahahashtra-400709		Brij Bihari Singh	Name: Late Manju Singh.
	Occupat	ion Details: Service Man	Occupation Details: -
	Phone:	9670212442	Phone: -
Mobile: 9619480568	Res. Lar	ndline : 🔔	E mail: singh-vipul 15 Q siesgst - a c . in_
If not residing currently with your	Parents, p	provide the following detai	ls (Tick appropriate option):
Relative Guardian		Friend	Hostel
Name & Contact Details: Div + C		Raghuvanshi 691893391	
ACADEMICS:			
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#### Sri Chandrasekarendra Saraswati Vidyapuram Sector 5, Nerul, Navimumbai-400706

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## SIES Graduate School of Technology

#### Sri Chandrasekarendra Saraswati Vidyapuram Sector 5, Nerul, Navimumbai-400706

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## Details of Co-curricular/Extra-curricular/Cultural/Sports Achievements

ponticipated and won second prise in Junkyard Wars in Cognition.	- Panticipated and won second prize in Aquabot in TML.
Sem - I	Sem - II
Volunteered Matrix in cognition -Has been a part of GST pevelopers Program (App)	- Event head of LAN Gaming in TML - Has been a part of GST pevelopers program (App). - Participated in Bytecamp, SIES GST's Mackathon,
Sem - III	Sem - IV
-Won the coding competition (Java) organised by CSI in cognition, Makers Mela. -Has been technical Robotics Coordinator. -Pouticipated in KJSCE hackathon. Sem.V	in IIT Bombay.
-Participated in KJ Somaiya Hackathon - Has been the Finalist in BUGGEVER. [coding Event] - member of the organising team of Developer's Weekend.	- Completed a one month long internship of machine learning with stipend - secured first position in Qualifiers



## Observations of the Professional Counsellor (if applicable)



## Update any additional information of student:-(Additional Contact details, career planning, etc.) - Placed in companies like EPAM, media net - Regulaz integaction as aluminus with current batch students - Training students by conducting various

WOEKSLOPS.



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## **Mentees Contact Information**

Sr. No.	Roll No.	Name of Student	Mentees contact No.	Father's Contact No.	Mother's Contact No.	Fater's mail ID	Mother's mail ID
1	115A1099	VIPUL SINGH	9619480568	9670212 442		brijbiharisin gh95733@ gmail.com	
2	115A1060	KRISHNAN ADITYA MURLI	9619019776	9004104 159	989267085 0	powersoluti ons2012@ gmail.com	indu1202@gmai I.com
3	115A1061	KULKARNI ADITYA AJAY	8767459127	9420004 130	897617279 6		
4	115A1062	LABBAI ALMAS SHAHUL HAMID		9619508 637	704523127 4	sh232638 @gmail.co m	



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Affix a

recent photograph

#### **Student Counselling form**

#### STUDENT COUNSELLING FORM

## PERSONAL DETAILS

Name: Aditya Krishnan Year of Joining: Semester: V Branch : CE

Roll No:115A1060

Address: B-52,203,Anupama CHS,Anand Nagar,Dahisar(East),Mumbai-400068

Contact No: 9619019776	(Res)	(mobile)
Father's Name: Murli Contact No :9004104159 Professional Address:		er's Name: Indu Contact No : 9892670850 al Address :
Time Spent with you : daily 2-3 Hrs Hrs		Time Spent with you : daily 3-4
No of brother/sister elder/ younger	to you : Nil	

Likes/Dislikes/Hobbies : Love to follow cricket

Aims/Ambition (% fulfilled)(Attach extra sheet for detailed description)

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To become a web developer

Did you join this course on your will ( If not specify reason)

#### Yes

Your Best Friend and his academic details : Mohit Routela

**Opinion** about self Strengths : Optimistic Weakness : Emotional

Affinity/fear/towards parents (Opinion about them)



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#### ACADEMIC

Academic	nerformance	( Semester – v	vise % and no	.of K.T.'s)	
	% of Marks	K.T.'s if any	Semester	% of Marks	K.T.'s if any
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III	8.04	-	IV	7.82	-
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V			VIII		
VII			VIII		

#### Placement & Company

Tlacemente	
Campus/	None
Placement	
PG	None
University	
Any Other	Internship during summer vacations

Co-Curricular Activity	Extra Activity
IBM	CAT Score
Microsoft	GRE Score
Java	Gate Score
Any Other	TOFEL Score
	Any Other

## Member of Society ( CSI, ISTE, IEEE): None

## <u>COUNSELLING</u> (Attach extra sheet if required) Academic problem:

## More focus on unnecessary things rather than the important stuff.

Non Academic problem: N.A.



### **RECORD OF MENTOR-MENTEE MEETING**

Date of Meeting: 23/07/2019

Points Discussed:

Result of sem-14 sem-II updated in datasheet The whatopp's group was created for communication The academic related perplans were discussed.

Sr.No	Roll No	Name of the Student	Sign
1.	118A1075	Tiejas Scucent	Jujan
2	76	Sonya Deenthi	
3	7	Sonyar Deepthi Ramaswamy Shabadish Nifa kawas shaikh	shah .
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14	88	Mahalakshmi T.	H. Wera
15	89	Hirishapiya Udiyar Santhiya,	Thursnes
16	90	Udiyar Santhiya.	alt



#### **Mentor Mentee Case Studies**

## **Student of 2018-22 batch EXTC student. Mentor: Prof Biju Balakrishnan**

He was admitted to the EXTC Dept on July 8, 2019 (Semester III) and in the 2 <sup>nd</sup> week of July, he was assigned as my mentee along with 21 other students. By the 4 <sup>th</sup> week, the class teachers started complaining about his absenteeism in college. He continued remaining absent for the entire duration of the first month of 3rd semester and I therefore decided to call and enquire with his father; concerned about his whereabouts.

In one of my one to one interactions with him he told that he was not much inclined to take up Engg as his interest was to take Zoology, but all his relatives and parents' friends advised him to take Engg even though there was no pressure from his parents and he decided to discontinue Engg after first year without his parents' knowledge.

On knowing this, I decided to make the situation better for him and called a mentee meeting. I requested all my remaining 21 mentees also to assist him with any doubts regarding the subject and also provide him with the notes/assignment questions/tutorial questions as he would feel more comfortable with his peers.

The teachers too gave him full support when they learned about his situation. I also helped him to follow his interest in football and spoke to the sports in charge. I requested them to consider hm for joining the team in the upcoming football selection and eventually he became a team member of the EXTC football team.

Throughout the semester I interacted with him, his father and also took help from the 21 mentees to be in touch with him and help him out in every way possible and to make him feel like he was a part of our family, so that he doesn't feel left out.

He has an ambition is to become a cyber security specialist and to further this interest he has also enrolled in a cyber security course through Coursera and now he is more focused.

### Student of 2017-21 batch EXTC Mentor: Prof Swati Rane

She was admitted to the EXTC Dept on July 8, 2018 (Semester III) and in the 2<sup>nd</sup> week of July, she was assigned as my mentee along with 17 other students. Suddenly one day she locked her Maths teacher in the tutorial room and started shouting. She went up on the terrace and started saying that she would jump. We panicked and therefore called her mother and told her about what had happened. I decided to interact with her every day and now her behavior has improved. She also participates in extracurricular activities.



## Student from Batch 2019-20 IT Branch Mentor: Prof. Stuti Ahuja

A student from Jammu Kashmir, when entered in second year of Information Technology branch of engineering was having many internal and external KTs. He was very depressed and started losing interest in academics. He started bunking the classes and as an effect his name was there in the defaulters list of students having less than 50% attendance. His mentor Ms. Stuti Ahuja was constantly counseling him and motivating him towards the academics. He was intellectually capable of understanding the subjects but he was focusing every time on clearing KT subjects and not on current subjects. He was stuck in that loop and very much frustrated. One day in his fifth semester, when asked by the mentor about his studies, he said that he wants to quit engineering. Mentor took him to head of the department, where both of them counselled him. They made him aware about his responsibility towards his parents and the society. Slowly he started progressing and attending lectures regularly. Now he is in final Year and cleared all previous KTs along with current subjects. His attendance and performance in all the subjects is very much improved this semester.



#### **Students Testimony:**

#### Chinmay Chandak 2016-20 CE

I had a passion for game development and web development since before starting college. Although they were my passion I didn't know much about them nor did I have proper direction to advance in those fields. But since my 2nd year the members of the Technical Team have helped me learn and grow, follow my passion and given me a place where even if i fail they backed me up!. I am thankful to the college and all faculty members and students who always supported me.

#### Aman Rajput 2015-19 EXTC

I was very blank when I started my career in engineering, however I am forever grateful to SIESGST for helping me out in choosing a suitable career. It not only paved a path for me but also served several opportunities, considering it's flexibal environment in academics and extra curricular. Ofcourse, none of this could have been accomplished without the immense support from my facilities. College also conducts various workshops, talk session, seminars and competition from various domains in Tech and non tech which gives a chance to all the students to explore and advance their expertise. SIESGST has a core student council that boosts the morale of its students and encourages them to come up with their views, ideas and built their own platform to learn and execute.

#### Sayli Patil 2016-20 CE

Gst Developer Program (GDP) was the start of my journey in the technical field. Going to college on Saturday was fun because we were taught things that were not in our textbooks. I was a part of the technical team since 2nd year, a place where innovative ideas were brought into reality. The principal, the student incharge, computer department faculties always supported me. Everyone including my friends encouraged me a lot to follow my passion. If it was not SIES I wouldn't have been exposed to these opportunities. All the hard work was well appreciated by my college. It was my college that encouraged me to pursue what I was truly passionate about, I learned to multitask and never compromised academics. Thanks for all the support.



#### Jay Gautam 2016-20 IT

"My name is Jay Gautam. I entered the college with a hope to enjoy cricket as a passion and play in the college team. Getting selected in the team was quiet smooth but what followed was not. I had to face a lot of criticism for my casual approach in academics and all the focus would automatically shift on to my sport. On getting loads of kts I wasn't demotivated as I was aware and determined to continue playing for my college. My sport helped me focus on my academics and I cleared my exams with a decent pointer. My faculty and my team motivated me throughout which added to my grit. From there on to captaining the team in my final year...it was nothing short of a roller coaster ride.

#### Omkar Prabhu 2015-19 CE

When I came to SIES GST, I felt a sudden rush of competition and motivation, but at the same time I felt like home. My undergraduate program allowed me to work on important, multidisciplinary problems in technology, but also about my love of solving challenging theoretical problems I found in my undergraduate studies. Student Council is perhaps the most impactful part of the campus. With the exposure I got via different opportunities and also under the guidance of talented and accomplished seniors who knew how the real world works; it helped me carve my career path. There is a strong sense of community, and the students and faculty are incredibly helpful and welcoming. When I found that college lacked a competitive programming club, they supported me in building a platform and lay the pillars of it. When I look back, I consider myself lucky that I got to be a part of such a growing institution and that I was able to create an impact via initiatives.

#### Akshay Tiwari 2018-22 PPT

Myself Akshay Tiwari from SE, PPT. I was a drop out student in first year itself. As I was weak in studies, Non of my subjects were cleared.

But over this all our college SIES Graduate School of Technology and the staff help me out clear my subjects. They are so good and encouraging that they taught me daily and help me clear my subjects.

Because of the college, I'm able to see the bright future. The Teachers and staff always support for being better me and the extra activities, which held in campus helped me to find my passion about photography and improve them with proper guidance of experts.

College not only help me being good in studies but also becoming a good person for our society. I'm very thankful for pursuing my engineering from this college.



#### Anirudh Iyer 2016-20 (Mechanical)

SIES has always been highly active on cultural events. I have received so many opportunities to nurture my skills in music and Art. The extracurricular activities here have inculcated the spirit of leadership and teamwork among students. I am a full-time musician now and if SIES didn't give me the opportunity to contribute towards the field of music, I wouldn't have been confident about taking it up as a profession. The support we students receive from the faculties and staff is applaudable.

#### Swapnil Shinde 2017-21 CE

When I came to college, I was having dreams of getting placed in good company and being a good software developer but I was very unsure about how I was going to achieve it.

Now I am in 4th year placed in a great product-based company.

All the credit goes to the teachers for giving such a great support at every step and different initiative, activities conducted by the college which has helped a lot to enhance a variety of skills from Technical to interpersonal.

SIES has helped me achieve more than what I could have at some other place.

#### Rahul Sawantdesai 2017-21 CE

I came across a lot of people who introduced me to new things & helped balance between academics & personal goals. They helped me understand the importance of perceiving obstacles as an opportunity to learn something new. My interest & curiosity also played a huge role in contributing towards my progress. It was a wonderful experience being a part of this community.

#### Vishal Vinod 2011-15 Mechanical Engineering

Right from my First Year of Engineering I was keen on joining the students council. Finally I got an opportunity in Second Year to be part of the sponsorship team. In subsequent years I got involved in planning and organizing activities and events at institute level. I also contributed to the entrepreneurship development cell. Today as I pursue my career as I work as Startup Experience Co Ordinator at Design Fabrication Zone, Ryerson University, I would like to thank all my faculty members and principal whi gave me opportunity to hone my entrepreneurial skills.