



Zagdu Singh Charitable Trust's (Regd.)

THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

Autonomous College Affiliated to University of Mumbai

Approved by All India Council for Technical Education (AICTE) and Government of Maharashtra (GoM)

Conferred Autonomous Status by University Grants Commission (UGC) for 10 years w.e.f. A.Y 2019-20

Amongst Top 200 Colleges in the Country. Ranked 193rd in NIRF India Ranking 2019 in Engineering College category

• ISO 9001:2015 Certified • Programmes Accredited by National Board of Accreditation (NBA), New Delhi

• Institute Accredited by National Assessment and Accreditation Council (NAAC), Bangalore

Website : www.tcetmumbai.in

Date: 24/02/2022

Minutes of NAAC- IQAC Committee Meeting held on 28th January 2022 at 3:00 pm through zoom online platform

Purpose of the meeting: To approve previous IQAC minutes of the meeting held on 10th November 2021 and discuss the initiatives taken during the second quarter (October to December 2021) and the quality initiatives to be taken in the third quarter (January to March 2022).

Agenda:

The agenda of the meeting is to discuss the quality initiatives based on the following NAAC criteria:

1. To discuss the Curricular Aspects of the Academic programs and suggest improvements.
2. To discuss the innovative processes adopted by the institution in Teaching, Learning and Evaluation.
3. To discuss the initiatives taken to sensitize/promote Research development, consultancy and entrepreneurship climate in the Institution.
4. To discuss the increase in infrastructure facilities and library facilities as Learning Resources.
5. To discuss Student Support services and its progression offered by the college.
6. To discuss improvement strategies adopted by the Institution for Academic and Infrastructure developments (Governance, Leadership and Management)
7. To discuss the innovations introduced during this academic year which have created a positive impact on the functioning of the Institution.
8. To discuss the action taken by the departments on the actionable points identified in the previous meeting.
9. To discuss strategies for implementing future plans of action for the year 2021-22.
10. Any other point with permission of the chair.

The following dignitaries were present for the meeting:

Sr. No	Name of External members	Designation
1.	Mr. Sharad Tiwari	Associate Consultant, TCS
2.	Dr. Radha Shrinivas	IQAC Coordinator, University of Mumbai
3.	Mr. Neeraj Yadav	Alumni

Sr. No	Name of Internal members	Designation
1.	Dr. B. K. Mishra	Principal / Chairperson, IQAC
2.	Dr. R. R. Sedamkar	Director, IQAC
3.	Dr. Rajesh Bansode	IQAC Coordinator
4.	Dr. Deven Shah	Vice Principal



5.	Mr. V.N. Datta	TEG Advisor
6.	Dr. Kamal Shah	Dean (R&D)
7.	Dr. Lochan Jolly	Dean (SSW)
8.	Dr. Sheetal Rathi	PG- HOD Computer Engineering
9.	Dr. Zahir Alam	Training and Placement Officer
10.	Mr. Anil Vasoya	In-Charge HOC Cell
11.	Dr. Sanjay Kumar	Examination In-Charge
12.	Dr. Payel Saha	HOD-E&TC
13.	Dr. Bijith Marakarakandy	HOD-IT
14.	Dr. Harshali Patil	HOD-COMPS
15.	Dr. Sanjay Patil	HOD-ETRX
16.	Dr. Siddesh Siddappa	HOD-MECH
17.	Dr. Seema Jagtap	HOD-CIVIL
18.	Dr. Sunita Pachori	HOD-ES&H
19.	Mr. Vimal Gosar	IQAC Member
20.	Ms. Purnima Chandrasekar	IQAC Member
21.	Ms. Ashwini Shanbhag	IQAC Member
22.	Dr. Vikas Kaul	IQAC Member
23.	Dr. Megharani Patil	IQAC Member
24.	Dr. Aditya Desai	IQAC Member
25.	Mr. Jayant Patil	IQAC Member
26.	Ms. Swetha Suresh Kumar	IQAC Member
27.	Ms. Prachi Janrao	IQAC Member
28.	Ms. Jalpaben Bhatt	IQAC Member
29.	Dheerav Nahar	Student Member (CIVIL)
30.	Kunal Pawar	Student Member (ES&H)
31.	Mr. Uday Waskar	Administrative member
32.	Mr. Shailesh Chavan	Administrative member

Welcome to all the members present:

The meeting began with IQAC Director, Dr. R. R. Sedamkar welcoming all to the IQAC meeting. He then enquired from all present whether the minutes of the previous meeting were read and whether it could be passed.

The previous minutes for IQAC meeting held on 10th November 2021 were confirmed. He further mentioned that the minutes of the meeting will be put on the website as per policy. He then said that the AQAR is almost ready and its structure is modified, proof of data is being asked to check whether that particular action has been taken or not. The last date is the 1st of February and we are waiting for the Principal's approval which will be done in the next two days



and the same will be uploaded by 31st of January. He then requested the Principal and Chairman of this committee Dr. B. K. Mishra to welcome and give the opening remarks for the meeting.

The Principal welcomed all for the meeting and informed that we are now in the process of developing the philosophy for framing the syllabus, then grabbing the guidelines for evaluation, and then doing the necessary assessment so that the system is taken care of automatically instead of the multiple reminders or follow-up by different people. He further said that that type of culture should be minimized in the system and everyone should take ownership of their work and complete it in time with quality. That is the approach we are developing as a part of ISO, where we have already revised the main processes of admission, semester conduct, and examinations. We are now working on training and placement, the library process, and the HOCcell process, which is basically for higher studies and online certification. So these three processes are under revision and we are expecting to complete them in a couple of weeks and then other processes can be taken up.

He further informed that the previous three processes have been implemented in the last semester and this semester, we are again going to work with that and we wish to see that it reaches every stakeholder, particularly the HODs, the section in charge, and faculty. He said that we have created a system where, whenever any documents come for the signature, as a part of authorization or the approval, we see to it that whether it is as per the system or not, and then if it is not there, then immediately it is corrected at all the possible levels. And then it is ensured that the subsequent cycle of approval of the theme should be implemented effectively. So, wherever the amendments are needed, we do the necessary amendments, people are informed about the amendments and then they are instructed to follow the amendments. And then, we have also said that whatever the process is relevant to the departments or the section, so, they must own that and they should keep that as a reference document whenever they are working for the system.

He also informed that we were working on the innovative examination which we have implemented last year for the first year, and then this year, it has progressed to the second year, which is still in the nascent stage. When we say innovative examination, it must be based on innovative learning. So, it should be the tool to measure the innovative learning for the student for which every course wise we have allocated 20 marks out of 100 which is for the theory. The objective behind this is to broaden the scope of whatever the existing things are there, what is not covered in the class, what the students are supposed to learn beyond the syllabus, and then how the syllabus can be revised on a regular basis, so that, maybe after three years or four years, automatically, the syllabus should get changed. And then it should be the real change, it should not be the change where some contents and titles are changed. So gradual changes should be there, maybe 10 to 20% or 30% every year so that after three years, or 4 years the things should change.

He then mentioned curriculum and syllabus framing where we are working to ensure that it includes self-learning and the research component. Self-learning may be based on the guidelines



that have been set by the faculty or the departments, which is basically to learn the prerequisite corequisite or maybe to learn something which is beyond the curriculum, which is not the part of the curriculum, and then these things can be tested maybe through the various means may be on the continuous basis or maybe through formative assessment. He further spoke about the traditional mode of the teaching-learning process.

He also said that we are planning to introduce in the curriculum innovative or research-oriented learning where the teachers and the student will learn together so that the scope of the learning can be broadened and the students will become future-ready. Now to do this, we have initiated the exercise which is given to one team from the mechanical engineering department, who are working on it and maybe in another one or two months, the things will take shape and that will become the templates that will be implemented across the departments so that the innovative curriculum can be brought into the system and is not dependent on our syllabus and the curriculum, which is university oriented, lagging the component which is required for the industry. So, with all these things being taken care of, we should be able to provide the platform to the students to not only improve their knowledge but also their skills for which we have started the B.Voc course, which is basically the skill-oriented courses and some of them get to our mainstream courses also, so that students should be prepared for two to three tracks of their job carrier. He further said that he has also addressed this with all faculty members the previous day.

He further informed that we are starting the college in the hybrid mode as per the notification from the government where we have the plan to conduct the lectures and the practical, which will be in the online as well as the offline mode. And it is in compliance with the government that those coming to the campus should be doubly vaccinated. We have also created the helpline, and the notice will be out by today for everyone associated with the system, including the faculty, students, the teaching staff, and the technical staff.

He then informed about that we have started the B.Voc-Artificial Intelligence and Data Science (AI&DS) course, where 19 students are there and their classes in the offline format will be started from the 1st of February. Initially, it was in the physical format only but it was suspended up to the 15th of February due to pandemic, but now another notice has come to reopen the Institute from 1st of February. He then said that we would like to see this B.Voc(AI&DS) course get established in the system where right now we have an intake of 30, the approval was late, and because that the admission was not up to the mark. Next year, we are expecting all the seats to fill up. Moreover, we are also thinking to add another 90 because our B.Voc(AI&DS) capacity is 120 as per AICTE. And with that, the intake for the B.Voc(AI&DS) course will become 120 from the next academic year. He also said that we will also be developing the skill development center where not only the skill-oriented teaching can be done, but it can be also made research-oriented, where it can be made practical oriented, it may be concept-oriented, so that the students who are opting for the specialization or the major and minor courses in our UG programs, can get the benefit of that skill center. So, we are in the



process of developing that and we are quite hopeful that by next semester our skill center will get developed.

He then informed that in the current situation the faculty members are taking the online classes from their respective classrooms. He also said that we are going to complete the three years of NBA for Electronics, Electronics and Telecommunication, IT, and Computer departments. We are supposed to start the process of the next cycle this month. Today we have started that process and soon, we will be filling up the qualifier followed by the SAR, and maybe in 45 to 50 days, we will be completing the process.

Dr. R. R. Sedamkar then mentioned that because we got autonomy in 2019, NAAC has extended our NAAC accreditation up to December 2024, i.e. two years they have extended because after the first two batches come out, the next application will be given to them.

Agenda 1: To discuss the Curricular Aspects of the Academic programs and suggest improvements

Dr.R.R. Sedamkar invited Dr. B. K. Mishra to throw light on Agenda 1. Dr. B. K. Mishra said that the odd semester for the current academic year got over, all the results were declared and mark sheets for the students are yet to be distributed. He further said that the results are similar to previous semesters of the previous academic year. Our concern in the past was to reduce the 10 pointers, and we have seen that it has significantly reduced and we are now working to make it the bell-shaped response so that marks must be in proportion with their knowledge, skills, and the attributes that they are going to develop over four years.

Agenda 2: To discuss the innovative processes adopted by the institution in Teaching, Learning and Evaluation

Dr. R. R. Sedamkar requested the Heads of various departments to share innovative processes adopted by the institution in Teaching, Learning and Evaluation

Dr.BijithMarakarakandy answered that curricular aspects plan for quarter three have been submitted , in which its mentioned that from 15th Feb 2022 offline lectures will be started but since the new guidelines have come, it will be started from 1st Feb 2022 in offline mode. Secondly about the curriculum for robotic process automation, proposed by the industry viewers meeting. The course structure and a course syllabus is being designed. He added four faculties from IT are sent for training, out of which one of the faculty has completed the training given by the industry and they are offering free services or software to the students for this particular subject. Students will be certified and later on they will be absorbed

Dr. SunitaPachori briefed about introduction of innovative examination , at the first year level for the last academic year 20-21, due to delayed admission processes, the students and the faculty had time short, then also innovative examination were introduced instead of just teaching the routine concept, applications of these concept were considered which is not possible in



continuous teaching mode, decision was taken to take few lectures where the briefing was already done by the faculty members some part of the content is to be learned by the student itself where they will be assessed by the oral interaction or by conducting the quiz etc. To enhance research culture, 15 to 16 problem statement are identified each subject and students are given one problem statement in a group of four from every subject .orientation regarding same was given in ISD for all the first year admitted student by which students started thinking on it and hidden talent was brought out when they started presenting the things. The same will adapted and will be modified when survey taken has proved innovative examination will motivate the students so that they should move to pursue writing the research paper or some articles.

Agenda 3: To discuss the initiatives taken to sensitize/promote Researchdevelopment , consultancy and entrepreneurship climate in the Institution.

Dr.Kamal Shah gave insights about initiatives taken to sensitize/promote Research climate in the Institution.Training for industry people is been started where teachers are learning new technology, while delivering the lecture and discussing with the industry this knowledge is utilized for the subject development, curricular development and for projects. Initially we started with faculties from IT and then mechanical, computers and civil were involved, so, it mechanical and last month in our training, computers and civil engineering department, as the potential of the faculty members is identified , they are connected with the respective industry for further training programs and in this way the culture is developing in the institute now. Maam added 10 student projects from each department minimum are tried to connect with the industry from last semester and many of the department have succeed .Dr. Shah informed that Product development and acknowledgement letters from the industry are been started and mechanical department have got one training that fiber engineering ,computer department are in the verge of conversion into the consultancy with four to five projects in hand .Giving information regarding incubation center she told that after opening up people have started coming to the center and currently 13 companies have incubated to occupy 80 to 85% capacity, one student from the mechanical engineering department received funding from the government for the startup and the institute has incubated the first startup , one more startup from the Incubation Center, is getting around 10 lakh of seed fund within one month's time, all formality is completed and selection is confirmed , the fund has not been transferred yet. With this new development Incubation Center have started generating the funds from the outside .

Dr. R. R. Sedamkarshared that Thakur College of Engineering Research Center of Mumbai University, first batch has produced two PhDs, in this context many patents are also filed



Agenda 4: To discuss the increase in infrastructure facilities and library facilities as Learning Resources

Dr. B. K. Mishra said that as far as the infrastructure is concerned, he said that the new centers have been created, new seminar halls are created, even the toilet blocks have been renovated and new toilet blocks also have been added wherever we have the common facilities like auditorium, seminar hall or convention hall.

Agenda 5: To discuss Student Support services and its progression offered by the college.

Dr. R. R. Sedamkar requested Dr. Lochan Jolly, Dean (Staff & Student welfare), Dr. Zahir Alam (T&P Head), Dr. Sanjay Kumar (Controller of Examinations) and Mr. Anil Vasoya (In-charge, HOC) to throw light on the said agenda.

Dr. Lochan Jolly informed that regarding the student activities (in offline mode) planned in the month of January was concerned, the institute had obtained necessary permissions from BMC for organizing the same, however due to sudden rise in cases, the activities had to be postponed. Hackathon has been planned in the month of February. She further added that as far as scholarships are concerned, few alumni associations have come forward for the same as a result of which 5 students additionally have been covered. The theme of Project-based Learning this time has been aligned to sectors related to different domains. The theme of Activity-based Learning has been aligned to 'Zero Carbon Emission' with topics like green technology, sustainability being given to students to explore through blog writings and debates. As far as the grant received through AICTE SPICES scheme for Rotaract club is concerned, the Q3 report has been submitted and Q4 report is left with all planning in place. All activities related to AICTE SPICES scheme are intended to be completed by 28th February, 2022 so that the utilization report can be submitted in March. The two phases of Student Leadership Programs has been successfully completed and was also presented as a part of one of the best practices (other one being HOC) in National Center for Quality Management thereby securing the first place.

Mr. Anil Vasoya informed all that in GATE 2021, 37 students qualified from which six have secured admission in IITs and four secured admission in NITs. Yet another student from 2017 batch secured 99.2 percentile in CET and has secured admission in IIM, Raipur. In August 2021, 297 out of 806 BE students from 2022 batch were counselled regarding higher studies in universities abroad. Out of these 297 students, 130 students have already applied to several international universities. HOC has also created a repository of materials related to various competitive exams like GRE, TOEFL, IELTS etc. Twelve activities related to HOC are already planned which will be conducted this semester.

Mr. Sharad Tiwari enquired that as far as the establishment of the skill centers is concerned, who will be heading them, researchers or institute faculty members to which Dr. B.K. Mishra replied that Dr. R. R. Sedamkar has been told to helm the task of forming the team that can



comprise of 60% industry experts and remaining 40% academicians. Dr. R. R. Sedamkar further added that National Skills Qualification Framework has come with an initiative along with AICTE and Ministry of Skill development wherein, institutions are expected to tie up with industries and come with innovative programs which will help enhance the skill sets of all students who enroll for the same. This initiative could also be tapped with regards to the research front if the conduct reaches to a certain level. He added that the objectives of this skill center are aligned with this framework and NEP 2020 with Dr. B. K. Mishra adding that currently the focus area is on UG students and eventually this skill center can be extended to PG and PhD students too.

Dr. B. K. Mishra added that this time our institute has formed the NCC battalion with capacity of 134 cadets under the authority of Cdr. Vijay Pratap Singh and one faculty member from FE, from which 34 cadets have already been recruited. He emphasized that this unit has been created to motivate students to join the defence/police forces in the future as these forces are in constant need of technocrats. He also mentioned that after the foundation of this unit, 2-3 students have got opportunity in the defenseforces.

Agenda 6: To discuss improvement strategies adopted by the Institution for Academic and Infrastructure developments (Governance, Leadership and Management)

Dr. B. K. Mishra said that as far as the infrastructure is concerned, the construction work is completed and yesterday we had the fire compliance audit which was completed successfully. We are now expecting OC of the 6th and 7th floor. So within a month's time, we will have enough classrooms and laboratories. So, this is about the infrastructure that has been created, which was started in 2019. And now it has come to almost an end and the college is almost fully ready.

Agenda 7: To discuss the innovations introduced during this academic year which have created a positive impact on the functioning of the Institution

Dr. Kamal Shahshared initiative taken for AI&ML under NEP 2020 to conduct innovative exams, syllabus is divided into component knowledge, skill and attributes, ability. As a part of innovative exam students have prepared for technical concept such as the role play, small drama, and hence art and science are the technologies considered for NEP 2020 under multidisciplinary learning, all the videos are uploaded on the YouTube which was appreciated by the students because they got creativity in the technology.

Dr. Sunita Pachori informed about the innovation implemented at first year level adding to which a resource book developed for the basic sciences subject has been included in beyond curriculum aspects, where focus is on how the emerging technologies and their utilization is done for the basic sciences subjects. Dr. Kamal Shah added to inculcate the research habit among the students at first year level, a list of the latest research publications is provided. The students



can go through paper under the mentorship of the faculty members which will help expanding their knowledge.

Agenda 8: To discuss the action taken by the departments on the actionable points identified in the previous meeting

Dr. R. R. Sedamkar then invited Dr. Rajesh Bansode, the IQAC Coordinator to give a gist of happenings of the last quarter submitted by the departments.

Dr. Rajesh Bansode started with action taken in the last quarter by UG Computer Department. Criteria 1: offline conduct of practical for second-year students has been conducted, the practical oral exam was conducted with two examiner's and term work submission was done, as per planning ISE II and ISE III will also be conducted for the second year. Criteria 2: STTP association with CAP Gemini, Indian digital transformation through industry 4.0 technologies to upskill knowledge of faculty members and keep them abreast with latest trends in industries conducted as an action taken by the department. Criteria 3: consultancy received by Dr. Rashmi Thakur from PAL India Computer Training training Private Limited is indicated as part of research consultancy. Criteria 4: all labs were utilized by second-year students who visited the college for an offline mode for practical. Criteria 5: preplacement training for TE (Phase 1) was conducted from 22nd Number to 6th December 2021. Criteria 6: prepared CSI and PSR calendar by considering Action Plan, overall proficient development of students along with lifelong learning. Criteria 7: added innovative activities under PSR which increase the competitiveness among students.

Moving ahead with UG – Mechanical department, Criteria 1: webinars were conducted by SAE and ASME. Term grant oral/practical exams are completed for SE. Criteria 2: making students industry-ready by linking projects with industries. Criteria 3: four faculty members received training from Germany Fab as per MoU signed. Three students are also associated with their BE projects with Germany Fab lab. Criteria 4: for the effective conduct of teaching-learning process in offline/online mode from college with appropriate infrastructure. Criteria 5: sessions are conducted to crack GRE under which 15 mechanical students have participated, Criteria 6: collecting status of certification courses from the students towards specialization courses through MOOCs platform. Criteria 7: the department has taken efforts to make overall development of students leading them to become more competitive. Students have enrolled various for various competitive examinations.

Proceeding further with UG – IoT Department, Criteria 1: timetable was started in hybrid mode following COVID SOP. Criteria 2, one group has participated in Manthan Hackathon. Criteria 3: PBL projects were published as posters and necessary inputs were given to convert them into a technical paper. Criteria 4: lectures were carried out in online mode and practicals are conducted in hybrid mode, Criteria 5: mentor counseling was done by Teacher guardians, outhouse internship is started for student involvement in society relevant projects, Criteria 6:



ABL and PBL projects were done on the TV 2035 topics, Criteria 7: Question papers are set as per Bloom's Taxonomy.

Proceeding further with UG – Civil Department, Criteria 1: Internship is being planned and conducted for SE students from 3rd January to 14th January 2022 in association with Rotract Club, Thane in which students are assigned under six different tracks: Creatives (17 students), Artists (22 students), Community Service (23 students), PR and Marketing (25 students), Reporting (27 students), Speaker Management (21 students). Criteria 2: Four faculty members have enrolled and completed AICTE approved FDPs: Mr. Arpit Vyas (Strategic Civil Infrastructure from 25-10-2021 to 29-10-2021, Carbon Footprint Reduction: Issues and challenges from 8-11-2021 to 12-11-2021), Mr. Pritesh Bhana (Advanced techniques for Traffic data analysis, visualization, and estimation for Indian cities from 20-12-2021 to 24-12-2021), Mr. Ghanshyam Pal (Carbon Footprint Reduction: Issues and challenges from 8-11-2021 to 12-11-2021), Ms. Priyanka Deshmukh (Life cycle management of infrastructure project from 20-12-2021 to 22-12-2021, workshop on An overview of recent advances in water and wastewater treatment technologies from 10-01-2022 to 11-01-2022). Criteria 3: Faculty and students are encouraged to present papers in IC-AMCE 2022, 10 papers are received till 17th January 2022. Criteria 4: Effective conduct of TLP in online/offline mode from college with appropriate infrastructure readiness. Criteria 5: Conduct social internship for SE students in association with Rotract Club, Thane for SE students from 3rd January to 14th January 2022. Criteria 6: Students are encouraged to participate in co and extra-curricular activities like T-Spark (10th to 13th January 2022) and other activities planned as per the academic calendar. Criteria 7: Conduct workshops and seminars under ASCE as per the academic calendar. Career opportunities in rapidly changing built environment sector post COVID 19 is planned on 28th January 2022.

Proceeding further with UG – AI & DS Department, Criteria 1: National and International (6 each) identified for subscription and submitted to central library. Criteria 2: Online coding competition conducted under CSI for the students. Criteria 3: PhD pursuing and other faculties are encouraged to write a proposal and submit for funding. Criteria 4: Students are encouraged to use the IIT Laboratories for specific topics of simulation. Criteria 5: Program based examination was conducted on 24/12/2021. Criteria 6: Conducted Environmental studies course in blended and flipped classroom. Criteria 7: Students were encouraged to identify their sector of interest for article reading and presenting.

Proceeding further with UG – E&TC Department, Criteria 1: IEEE webinars on Blockchain, Higher studies, IOT. Criteria 2: BE project examination with evaluators from the industry. Criteria 3: Filing of two patents are in process from RF & Microwave domain. Criteria 4: Conduct of TLP in online/offline mode from college with appropriate infrastructure readiness. Criteria 5: Conduct of GATE lectures. Criteria 6: Assessment of students towards specialization courses. Criteria 7: Submission of final draft of NBA SAR.



Proceeding further with UG – IT Department, Criteria 1: Lectures were held in online mode and all the study material to be made available on Google Classroom and ERP. Criteria 2: Conducted ESE Nov 2021 (TE/BE: 8/11/21-17/12/21, SE: 13/12/21-22/12/21) and timely assessment of the same completed. Criteria 3: Conducted EC-AIML on November 26 & 27, 2021 online mode. 36 papers received (external: 13, internal: 23). Criteria 4: Conduct of TLP in online/offline mode from college with appropriate infrastructure readiness. Criteria 5: Social Internship for SE students conducted during 3rd to 15th Jan with GEV Apoorva Diagnostic and Nazareth Foundation. Criteria 6: Compiled and submitted activity points for SE to BE students till December 2021. Criteria 7: Submitted pre qualifier for NAB SAR for Tier II.

Proceeding further with UG – AI & ML Department, Criteria 1: Conducted of ISA (ST: 20/12/21-22/10/21 and 22/11/21-24/11/21 and innovation examination (24/11/21-26/11/21) for ST students. Criteria 2: Students were mentored and interaction was done for consolidation of activity points. Criteria 3: Conducted EC-AIML on November 26 & 27, 2021 online mode in coordination with IT department, 36 papers received (external: 13, internal: 23). Criteria 4: Conduct of TLP in online/offline mode from college with appropriate infrastructure readiness. Criteria 5: GATE lectures for ST students conducted in the month of during 29th October to 25th November 21). Criteria 6: Compiled and submitted activity points for ST students till December 2021. Criteria 7: ST students Participated in different Inter department activities conducted by IFFE, ACM etc.

Adding with highlights of action taken received from PG – COMP Department, Criteria 1: Seminar on India & Research quality culture for better solutions - Mr. Prabhakar Deodhar. Criteria 2: In Semester 3, the following changes were made to credit structure: 1 Program elective (PEC-CSME301X) and 1 credit for Open elective(OEC-CSME3 credits for Dissertation 1(D1-CSME301). Criteria 3: Regular project presentations as per the project calendar are taken. Criteria 4: NA. Criteria 5: NA. Criteria 6: Total of 3 students have enrolled in the PG Computer Engineering program. Criteria 7: All the concerned guides did regular follow-up through various mediums and counseled the students to complete their projects.

From UG – ES&H Department, Criteria 1: Finalization of Resource book is expected in November 2021. Criteria 2: Faculty members have participated in various FDPs and STTPs. FDR conducted by ES&H for Advanced Excel Training. Criteria 3: Faculty members were motivated for research papers in functional completed the process where the presentation was done and the extension carried out for publishing in IC-HSTE 2022. Criteria 4: Planning for conduction of Practical in offline/hybrid mode for students in semester I on a rotation basis. Criteria 5: Roadmap to Engineering Education conducted successfully for HSC passed students. Criteria 6: Topics for Innovative Examinations finalized. Criteria 7: NBA Criteria 8 related to FE, data required for the same is submitted to all departments as support documents.

Dr. R RSedamkar then invited suggestions from the members for which Mr. V N Datta said that innovation in the examination is very interesting. Seeking clarifications in this regard he



asked to elaborate that as HOD's are asked for suggestions are they provided with any format , as at random everyone will come up with a completely new type of idea and then coordination will become a task, but if you have a different program, how to link it. Secondly he wanted to know thought process of innovative examination and how is it achieved.

Dr. R RSedamkar answering to his questions informed that suggestions are invited from faculties by Principal sir in his open meeting and as suggestions are received they will be put into the format and will be reviewed at the top leadership .Replying to another question of Mr. V N Datta of receiving suggestions from students ,Dr.Sedamkar told that student members i.e CR's, meritorious students are part of the that particular committee's like program committee , program assessment committee , advisory committee , NAAC etc. In the formal system where there is requirement of mass suggestions from the student Dean SSW-Lochan Jolly creates link to get feedback

Dr.Lochan Jolly addressing question regarding conduction of innovative exams answered that departments are conducting innovative exams in the form of a case study , small mini project or a presentation on certain topics. As per the instructions from Principal sir a list of all the other universities using this concept is prepared and a design is made ready that so that we have a different tool for conducting each innovative exam that contributes to the two major concepts self learning and beyond curriculum content.

Dr. R RSedamkar invited HOD's to present innovative exam approach at second year level to which Dr.Payel shared about practice adopted in ENTC department where students were given tips and tricks to solve GATE questions and a question bank of GATE exams is posted on college websiteso students were able to adopt GATE approach take paper solving approach, and same pattern same is followed for taking their innovative exam

Dr.HarshaliPatil shared about innovative examination practice in Computer department to which she added regarding planning and execution of innovative exam subject wise problem statement relevant to the course involving content beyond syllabus or recent trends, model were discussed with the students and then they were allotted by respective subject faculties, a group of three to four were allotted problems as part innovative examination, as a part of project development were located to the students. Mock presentations are taken during self learning slots and zero hours to check the progress of students and such as the refinements in the presentation. Outcome being to enhancethe knowledge and build curiosity among the students to learn beyond the syllabus ,to can generate new ideas and bring inventive solutions to the problem statements .

As an outcome of meeting Principal sir urged on utilization of self learning period and Zero hours for quality setups under the innovative examination across all departments which was not done earlier

Dr.RadhaShrinivas requested to brief about the learning management system followed in institute



Agenda 9: To discuss strategies for implementing future plans of action for the year 2021-22

Dr. R. R. Sedamkar requested the Heads of various departments to share change in curricular aspects or improvements taken by the department with respect to change in the curricular aspect of the academic programs done to, he also mentioned that NAAC expects post autonomy every department has to have a kind of tie up with industry on implementing the curriculum in line with the industry requirements, national education policies, AICTE 100 points program etc.

Dr. Payel Saha giving information added, regarding the curriculum changes there are a few second year subjects modified, for which the gate components are introduced at secondary level. Some final year subjects are modified by taking opinions from the experts belonging to other academic institutions for an open elective course - basic taxation for engineers. Madam added after getting suggestions from the expert, and said changes in the technical subjects like cryptography and cybersecurity signals and systems, were done and approved by BOS

Dr. R. R. Sedamkar added that every Department need to be strengthened with improvement strategies as it a major expectation of the NAAC 2024 - post autonomy, regarding the change brought up in the syllabus in line with the research and other stakeholder requirements. He also mentioned that last time we were under Mumbai university and had innovations particularly related to curricular aspects to which the overall score NAAC score was limited to A, which is required to be achieve to A++ in future. He also directed departments to get linked with industry as proposed in 2019.

Dr. R. R. Sedamkar requested Deans and Head of Departments to add on with their likely future plans of action at department or section level. Dr. B. K. Mishra added that with the new branches that were introduced in last A.Y., the students of the same have naturally progressed to the second year with the newly formed core departments actively functioning on the same. He also mentioned that in A.Y. 2021-22, the branch of Computer Science & Engineering has been started with the domain of cyber security and the Electronics branch has been renamed as Electronics & Computer Science. He emphasized that the syllabus framing of courses of newly introduced branches need to be done at least four years before the conduction. At the time of implementation if minor/major changes arise in the curriculum, they can be made, finalized and approved. Faculty members who are likely to take these courses can be trained on the same.

Dr. B. K. Mishra also highlighted that the NIRF ranking of the institution needs to be improved by working on the lagging areas like no. of PhD completing candidates, no. of scholars enrolled for PhD program of the institute, no. of PhD guides and no. of faculty members guiding PG and PhD students etc. The institute is working tirelessly to fill up the seats with no unwanted vacancies and to ensure that most of the teaching staff are aligned to guide PG and PhD students which may ensure an improvement in the NIRF ranking. He added that getting an NIRF ranking not only requires an institute to be an academic institute but also as a Postgraduate and PhD institute so that the academics is supported with good amount of research. The Skill



Development program will also help in the future is what the institute aims for. Introducing B.Voc(AI&DS) course should also help in improving the NIRF ranking by next three years.

Dr. R. R. Sedamkar said that in the last IQAC meeting actionable points were shared with all concerned as addressed in the meetings on 28/7/2021(External Peer team meeting)& 31/7/2021(IQAC meeting). These are to be implanted with action taken which is not yet mitigated. In compiling the actionable points that are acted upon by the department/sections to be highlighted and need to be discussed during the next quarter IQAC meeting. He has informed all concerned Dean-Academic Board(Member secretary), Dean – R&D, Dean – SSW, Chairman-BoS(Respective Program),Board of Examination & Controller of Examination (CoE – TCET), Librarian, TPO & HoC In-Charge to work on the respective Observation/Suggestions/Actionable points raised out of Academic Performance Audit as shared by the external peer team, which are to be presented as action taken points in the next subsequent quarter IQAC meeting.

The actionable points mentioned are required to be met in the same academic year which will help the institute to improve overall NAAC score from A to A++. He further added that the same panel will be associated with the institute for the next three years and will be checking the progress made as per the suggestions that have been put forth by them. He clearly emphasized that routine activities need not be shared in the quarterly meetings however what actions have been taken against the actionable points and how well it has helped the system should be highlighted especially in the areas of curriculum enrichment and research.

Agenda 10: Any other point with the permission of the chair.

Dr. R.R. Sedamkar took the permission of the chair and invited suggestions if any from all members present.

Dr. B. K. Mishra suggested that as the post of General Secretary (Academics) has been created, he/she from next time should be a part of the quarterly meetings.

Dr. R. R. Sedamkar also highlighted that the role of the IQAC department coordinators is crucial as they help gather and assimilate data from all departments and upload in the NAAC portal, however as per the observation of Dr. B. K. Mishra, few NIL reports are also getting accumulated which needs to be looked upon by the IQAC cell and acted upon.

Dr. Radha Sreenivas suggested that as far as enhancement of research areas are concerned, the trend being to look upon interdisciplinary alliances, as much as technology driven institutions are working in association with DST and under UGC, AICTE etc., strengthening the alliances with government backed organizations like DRDO, ISRO through institute research cells and strengthening the association with NGOs is the need of the hour. Dr. Sunita Pachori replied that NSS and EWT are two very active units within the institution that is working in several areas including education wherein technology driven learning's and social awareness are being



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NSS and EWT are two very active units within the institution that is working in several areas including education wherein technology driven learning's and social awareness are being imparted to children from the rural areas. In this direction, the NSS unit has adopted an area near Virar where a team of 150 students (from second and third year) are actively involved. Due to the pandemic, residential camps that were planned to be set and work for the tribal community could not happen and therefore the team is waiting for necessary permissions from the university. The NSS team has already set up a library over there. EWT body has been focusing on identifying students from economically poor background who have left their education mid-way and counselling/providing teaching in 1-1 manner along with necessary learning resources. The TCET-EWT team is already associated with Lions Club and University of Mumbai. Rotaract club of TCET is yet another body working in this direction. Through in-house social internship, few NGOs are also associated and TCET students are doing internship under them.

With no more points to discuss, the meeting was ended with a vote of thanks by Dr. R.R. Sedamkar to all members present.

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