



VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

Directorate of Quality Assurance and Accreditation
Internal Quality Assurance Cell

IQAC Meeting Suggestions and Action Taken Report

IQAC Meetings conducted during AY 2023-2024

S.No	Suggestions of IQAC meeting held on 11 th October 2023	Action Taken Status
1.	Coding competitions can be organized to improve the quality of coding.	<ul style="list-style-type: none">Schools are conducting Codeathon competitions to improve the coding skills through real life problems.
2.	Focus on implementation of NEP 2020.	<ul style="list-style-type: none">Flexible curricular structureMultidisciplinary education4-year UG Programmes leading to a degree 'with Honours / Research'Credit Transfer policyCounselling facility for studentsA large numbers of financial scholarships are provided to deserving, meritorious and needy studentsFaculty members are given freedom to design their own pedagogical approaches and assessment components within the approved frameworkExtension programmes on opportunities in higher education and professional careerStrong Industry-academic linkages and interdisciplinary research
3.	Self-evaluation can be implemented in the online learning modules developed by TLCE for faculty development program.	<ul style="list-style-type: none">TLCE is planning to implement the self-evaluation survey at the end of the Semester (May 2024).
4.	VIT alumni in top positions can be invited to share their expertise with faculty members and students.	<ul style="list-style-type: none">Alumni are invited for delivering guest lectures and sharing their experience with the students and faculty membersAlumni are also invited as resource persons for various events to share their expertise
5.	Faculty members and students shall be encouraged to read magazines and journals in their fields to know the recent developments.	<ul style="list-style-type: none">List of Journals and magazines subscribed by the central library is shared among faculty members and students on a periodic manner.Faculty members and students are encouraged to read the journals and magazines.

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13.	The policy on assigning same teacher for B.Sc/BCA/BBA programmes and Engineering/MBA programmes can be reviewed as the expectations of the teacher is high on B.Sc/BCA/BBA students.	<ul style="list-style-type: none"> The teachers who have handled courses previously to B.Sc / BCA / BBA programmes are being assigned
14.	The areas where B.Sc/BCA/BBA programmes students lack are to be identified and appropriate remedial actions can be implemented to improve the students' progression.	<ul style="list-style-type: none"> Value added courses such as C programming, Python, were offered for these set of students to cope up in programming skills
15.	Encourage 3-year degree programme students to work with the engineering students.	<ul style="list-style-type: none"> Policy will be formulated in the coming academic years to facilitate interaction between engineering and non-engineering students
16.	Invite the industry experts to evaluate the laboratories.	<ul style="list-style-type: none"> Industry experts visit the laboratories in schools and research centres regularly and give suggestions for updating the existing infrastructures NABL Accreditation of laboratories have been initiated
17.	Suggestion box can be put up at various locations in the campus.	<ul style="list-style-type: none"> O/o DSW is planning to set up a suggestion box in all the blocks
18.	Analyze the root cause for drop outs.	<ul style="list-style-type: none"> Mostly the dropouts are only due to admissions in premier institutes and personal/ health issues Micro level analysis will be taken up at each Programme / School Level
19.	Starting a new programme on B.Sc. Electronics can be considered.	<ul style="list-style-type: none"> The School of Advanced sciences will explore the possibilities of starting this programme.
20.	TLCE can organize training on English as a spoken language for the staff members.	<ul style="list-style-type: none"> Staff Development Programme [SDP] on Communication Skills was organised by TLCE. 152 staff members have attended the programme
21.	Hands on experience workshop with the support of industries can be arranged for the benefit of students.	<ul style="list-style-type: none"> All the schools have conducted workshop, training programme and value added courses with the support of industries

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22.	A sensitization session on opportunities in Higher Education can be conducted in all schools for the benefit of students.	<ul style="list-style-type: none"> O/o International Relations and O/o Career Development centres have organised programmes on opportunities in higher education International Transfer programmes, International Higher Education Fair, Semester Abroad Programmes
23.	Students can be permitted to avail the discussion room facility in the library.	<ul style="list-style-type: none"> Students are permitted to use the discussion room facility with the prior permission as per the library policy
24.	Meeting with Alumni and gathering inputs for the curriculum, research topics, project works etc.,	<ul style="list-style-type: none"> All the schools are collecting inputs on curriculum & syllabus, research and project works during the school alumni meets and alumni days

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1.	Encourage the faculty members to write review papers	Dr. APJ Abdul Kalam award introduced for review paper publications- This is also considered for Research Award for faculties and Citation improvement.
2.	“Construction Technologies and Demolition Waste Management” areas shall be given importance in Civil Engineering curriculum, and to collaborate with industries in this area.	BCLE 215 L----- Waste Management – Offered as Discipline linked Elective for Civil Engineering Students. Faculty members are working in this area by guiding Scholars.
3.	Increase the awareness among undergraduate students on research and problem solving skills.	<ul style="list-style-type: none"> Dean SCE - In the curriculum the project component is added and the faculty members are guiding the students in publishing papers, registering for patents. Dean SCORE - The school has organized various events such as seminars, workshops and expert lectures for the undergraduate students enabling them to solve the real-world problems and nurture them to be more progressive in research directions as well. As a result of that, the school has reaped 14 student publications for the AY2023-2024. Dean SBST - Faculty are encouraged to publish J component and capstone project work, to encourage students to do research, HOT questions are asked in CAT 2 exams for increasing problem solving skills.

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		<p>Dean V – SIGN</p> <ol style="list-style-type: none"> 1. The students are encouraged to conduct research as part of their projects. The students are taught basic research methods and tools. 2. As part of the new revised curriculum of 4 years B.Sc programmes and BDes & MDes Research Methodology has been introduced as a core course. This will enable students to perform research systematically and publish papers. <p>Dean VAIAL - Students were given assignments to identify the problem statements, research gaps and frame research questions related to the field of agriculture and allied Sectors.</p> <p>Impact: Scopus indexed papers were published, consultancy projects were jointly applied, research related to the practical problems are being addressed by participating in thon events, seminars, conferences, workshops, etc."</p> <p>Dean HOT</p> <p>Implementation Status: UG students were trained to write book chapters in order to be equipped to publish in Scopus-indexed journals.</p> <p>Impact: Recently students have published book chapters</p> <p>Dean SCHEME - Encouraged the students to participate in Hackathons and technical events. Students won prize at the Hackathon conducted by IIT Madras. Also our faculty published research articles with UG students in the reputed international journals.</p> <p>Dean SELECT</p> <ol style="list-style-type: none"> 1. Students participated in Make-a-Thon, Conferences and won prizes. 2. Conference paper published -34 students 3. Scopus Publication-16 students
4.	Tie-up with alumni networks and industries shall be strengthened to improve the research and industrial consultancy	<p>Director Alumni Affairs</p> <ol style="list-style-type: none"> 1. Collaboration with Mercedes-Benz Research and Development India Pvt.Ltd, Bangalore Topic: Body and Comfort R&D topics. Alumni in Industry: Mr.Sivalumar K (B.E Mechanical 1996) Status: Discussion going on and details they requested are shared by us. Expected Impact: Will have research collaborations in the area of i) embedded system ii) semiconductor shortage-redesign iii) model based engineering iv) Validation of ECU. 2. Collaboration with Krishna Engineering Company, Hosur

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		<p>Topic: Additive Manufacturing Alumni Entrepreneur: Mr.Rahulkrishna Mani (B.E Production and Industrial Engineering 2021) Status: Discussion over. Impact: Internship for Mechanical students in Summer.</p> <p>Dean SCORE - With the support from the industries and alumni members, our faculty members have obtained 12 consultancy projects for the AY2023-24 and published good number of research papers.</p> <p>Dean SBST - Our school has been regularly conducting programs such as BIOSUMMIT and DNA DAY where alumni and representatives from industries are invited and made to interact with students and faculty, we are further working on strengthening the process.</p> <p>Dean SAS</p> <ul style="list-style-type: none"> • Platform to create and interact with Alumni and present students and scholars. • Soft skill training to be given to scholars also. • Steps to be taken to run our Program with industry partners • The alumni Dr.R.Venkat raghavan managing Director, ChemVsai labs has started a startup industry in Tiruvallur, we have collaboration with him <p>Dean HOT - Implementation Status: Established regular communication channels with alumni, and mentorship programs. Impact: Networking opportunities for current students to connect with industry professionals, potentially leading to mentorship.</p> <p>Dean SCHEME - Alumni Guest Lectures and Alumni Talk events Ex: Career Opportunities for Chemical Engineers Importance of Data Science in Chemical Engineering</p> <p>Dean SELECT</p> <ol style="list-style-type: none"> 1. Special invited talks by Alumni are organized during fresher orientation programme 2. Alumni student served as resource person in Industry-Academia Conclave 3. Alumni students were speakers in virtual international academia industry workshop 4. Industry expert guest lectures by Alumni were organized 5. Faculty members are supported to visit industries as a team to attract collaborative research projects

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5.	Institution shall devise a plan to improve the quality of publications.	VIT Consciously taken effort to support Open Access publications only for Q1 /Q2 Publications and above two impact factors. This is reflected in terms of our h-index improvement and citations.

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1.	Steps to be taken to improve the placement percentage of non-engineering students.	<p>Director CDC</p> <ul style="list-style-type: none"> • Orientation on placement importance to be done by the Deans and Director – CDC • Appointment of CDC Co ordinators to improve the placements(already done) • Steps to be taken by the Deans to improve the pass percentage to make the students eligible for placements • Modification of training methodologies by trainers to suit the non - engg. students placement training(being implemented now) <p>Dean SCORE - The school has organized sessions to create awareness about the job opportunities and the way forward for the non-engineering students to meet out the placements related doubts. Further, the school has also taken keen measures on inviting leading professionals and industrialist for the one day industry conclave and suggested the various opportunities available for non-engineering students.</p> <p>Dean SBST - The faculty are asked to invite representatives from alumni working in industries to give guest lectures and interact with students in the aspect of finding jobs in biotech industries</p> <p>Dean SAS Plans currently implemented</p> <ul style="list-style-type: none"> • Career guidance through guest lectures from relevant courses such as research methodology. • Summer internships, and summer projects (CSIR, DRDO, ICMR) have been promoted • Industry internships through CDC are continuing (Chemistry, Mathematics) <p>Plan of action to improve placements %</p> <ul style="list-style-type: none"> • Challenge: Preference of students for higher studies • Documentation of students' preferences for academia vs. industry • Pushing CDC from school to actively include MSc programs in the placements • Pushing companies for offering placements (after internships) is needed • Industry-academia conclaves can be encouraged within

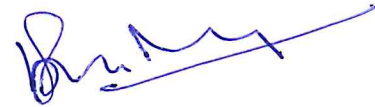
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		<p>the department</p> <ul style="list-style-type: none"> • Industrial and inter-departmental collaborations can be improved • No stipend is given by certain industries so the students prefer not to go for such companies (Can be controlled by CDC) • Company recommendations from faculty can also be considered by CDC • Collect the list of companies through faculty experts of a given stream • Learnings from M.Sc. Data Science and M.Sc. Business Statistics to improve placements in other streams (especially physics) • A faculty team who has a strong industry collaboration can be formed through Dean Sir. This team can then suggest a list of companies to CDC • The list of companies can be collected through alumni • Terms and conditions of placements at VIT need to be communicated with the company prior to bringing them to campus. • Specializations such as astro physics, and computational physics can be introduced in the curriculum to improve placements statistics in physics. • Final year specialization can be made as a choice for the students (This helps them choose the ideal stream that can help them get a job offer) • Govt vs. private sector vacancies can be made aware to students <p>Dean VITBS</p> <ol style="list-style-type: none"> 1. We are offering a Career Management course in two semesters (3+3= 6 credits). The students are trained in aspects related to Communication (oral and written), Attire, Etiquettes, Table manners (by HOT School), Attitude, Aptitude etc. This entire course is outsourced to an agency shortlisted after scrutiny by Dean Academics and others. Evaluations are done and individual reports on progress and areas for improvement are given to the students by the agency. 2. Mock interviews are conducted by faculty and feedback given to individual students. 3. Both the above initiatives are facilitated and supported by CDC. <p>Dean HOT</p> <p>Implementation Status:</p> <ol style="list-style-type: none"> 1 Provided specialized counselling sessions focusing on career paths and skill development. 2. Updated courses to meet current industry demands 3. Strengthened support for resume building and interview preparation. 4. Showcased successful placements to inspire current students.

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		<p>Impact: These initiatives, including counselling, updated courses, support for resumes and interviews, and showcasing successful placements, have boosted students' readiness, placement rates, and motivation for career success, enhancing overall satisfaction and confidence in future prospects.</p> <p>Dean SCHEME - Training sessions were arranged for the Chemical Engineering students to meet the demand of software/IT industries</p>
2.	Schools to establish industry relevant laboratories.	<p>Dean SCE - In SCE, 3D printing Lab, Civil Engineering Computing Lab are established and Digital Construction Technology Lab is being established.</p> <p>Dean SCORE - To cater to the needs of the students, research scholars and faculty members, the school has established a Lab at SJT 806 on Machine Intelligence and Cognitive Computing.</p> <p>Dean SBST - In the forthcoming BIOSUMMIT program, the possibilities of establishing industry related laboratories in the school will be discussed.</p> <p>Dean V – SIGN</p> <ol style="list-style-type: none"> 1. Established a State of Art Audio Production Studio for students to specialize in courses related to audio production. 2. Refurbished the existing Green Matte Studio and reorganized with updated facilities improving the learning experience. <p>Dean VAIAL - Food Science laboratory is established to conduct research on problems related to the post-harvest handling of agricultural commodities. Biotechnology laboratory is established to conduct research on mass propagation of tissue culture plants.</p> <p>Dean HOT –</p> <p>Implementation Status: All the existing laboratories are 100% industry relevant.</p> <p>Impact: Students gain hands-on experience with equipment and techniques directly applicable to industry standards, improving their employability and readiness for professional roles.</p> <p>Dean SCHEME - We have initiated the collaborative works with industries. We have signed MoUs with Maha-Shank Energy LLP, Ranipet and Thirumalai Chemicals, Ranipet.</p>

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		<p>Dean SELECT</p> <ol style="list-style-type: none"> 1. Schneider HMI Lab (Industrial Automation Lab) 2. Schneider Electric Building Automation Lab 3. Consultancy – Total Amount Rs.1411240 4. Sponsored Projects-Total Amount Rs.9360661
3.	Establish a separate server to provide support for AI based project/research work taken up by students.	<p>Deputy Director Systems - We currently have 2 Nos of NVIDIA DGX 1 Super Computer to which access is given to Faculty & Research Students who are engaged in AI & ML areas. This financial year, we are further investing Rs.5 Crore to scale the facility. Commissioning of the new additional Super Computer is expected to be completed by September'24.</p>
4.	Introduce courses on AI, Robotics in Civil Engineering programme and encourage students to take up hands-on projects/ internships in these areas, which are now extensively used in construction industry.	<p>Dean SCE - BCLE 210L – Discipline linked Elective offered for Elective for Civil Engineering Students.</p>
5.	Explore consultancy activities in maintenance and strengthening of existing buildings.	<p>Dean SCE - Based on the requirement from VIT, NDT tests are being carried out for different buildings and the results are submitted.</p>
6.	Civil Engineering Students shall be encouraged to participate in conferences/ activities organized by the Indian Concrete Institute (ICI).	<p>Dean SCE - A separate student chapter is being working in this area.</p>
7.	Plan for zonal meet to rope in more alumni members to engage in the school activities, and to improve placements in non-engineering streams.	<p>Director Alumni Affairs</p> <ol style="list-style-type: none"> 1. North Zone meeting is being planned and will be held this year. 2. Schools are encouraged to prepare the alumni activities calendar for the Fall 2024-25. <p>Dean SCORE - Following the successful conduct of the MCA Alumni Meet 2023 at Bangalore, the school has a vibrant alumni network that helps to organize various events for the benefit of our non-engineering students. Apart from the technology oriented lectures, the school has organized two events related to career guidance and transition from university to industry. Besides, we have engaged our distinguished alumni members for the Curriculum Design, Thon Activities, Workshops, Project Demonstrations and Evaluations, etc.</p>

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		<p>Dean SBST - We are working with PAT office and VIT alumni representatives to conduct zonal meets.</p> <p>Dean SAS</p> <ul style="list-style-type: none"> • We are involving our Alumni in BOS, 8th module lecture, DC member etc • For QW celebrations one of the resource person is our Alumni <p>Dean HOT Implementation Status: Lack of alumni in higher positions is due to the recent graduation of only a few batches. Impact: No impact</p> <p>Dean SCHEME - Planning the course of action. Need time to concretize the activity.</p> <p>Dean SELECT - Bangalore Zonal meet will be arranged.</p>
8.	Business School shall plan to offer certificate programs in strategic planning, decision making and industry relevant topics.	VITBS conducted a certificate program on Analytics and also planned to conduct various industry relevant certificate programs in the upcoming semester.
9.	Encourage students to take up skill development courses online	The Academics Office will identify such courses and advise the students to register for the uses in future.
10.	Strategies to improve the library usage by students	<ol style="list-style-type: none"> 1. Library Orientation Programme is conducted regularly for a month (two sessions per day) in the beginning of the fall semester. 2. Displaying new arrival of books in WEBOPAC (web based open access catalogue). Increased the number of standalone systems in the library for searching the online catalogue 3. Updating the new arrivals of Books and Periodicals through email (Both faculty and students) 4. Conducting Faculty Development Programme Periodically <ol style="list-style-type: none"> a. Bentham Author Workshop by Dr. Frans Lettenstrom & Dr. Gareth Dyke on 07.11.2023 b. Book talk on "Souls Seeking Transcendence" by Dr. Farzaneh Haratyan on 27.03.2024 c. Importance of Standards and E-Library products in academics and research by Mr. Kuppuraj, Mr. Manikandan, and Mr. Sasindranath on 01.04.2024 d. Workshop on the effective use of University Resource for Quality Research by Dr. Periasamy Pradeep R, Mr. Gigilal and Dr. Shubra Dutta on 03.04.2024 e. Navigating the scholarly publishing landscape: Insights for faculties and research scholars by Ms. Sangeeta Menon on 08.04.2024

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		<p>5. Celebrating Library week with the following events from 8-10, November 2023.</p> <p>a. Best Reader (Students) (Based on Book Issue for academic Year)</p> <p>b. Best Scholar (Scholar access e-Gateway login)</p> <p>c. Competition for Essay writing (About the VIT Library)</p> <p>d. Best Faculty user (Based on last year Book circulation)</p> <p>e. Best VIT Library service (Best service with explanation) students</p> <p>f. Best VIT library Service (Faculty & Staff)</p> <p>g. Short Poem about VIT Library in Tamil (STARS students only)</p> <p>h. Book Exhibition in CS Hall (9 & 10 , Nov 2023)</p> <p>i. User orientation program, webinar, New e- resources Demo etc.,</p> <p>l. Training on Endnote Orientation programme by Dr. Subhasree Nag on 08.11.2023</p> <p>ll. IEEE Xplore Digital Library: Delivering Research Better Than Ever by Dr. Dhanukumar Pattanashetti on 09.11.2023.</p>
11.	Green audit to focus on minimizing CO2 emissions in the campus	<p>1. To reduce CO2 emission additional 700 kW of roof top solar panel in under execution - already 250 kW is installed at PRP phase 1 building remaining are under installation process.</p> <p>2. Planned to remove 700 TR of conventional old window ACs and these capacity will be utilized from chilled water based AC which most energy efficient.</p> <p>3. 1500 nos tree plantations are planned inside the campus.</p>



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