

Action Taken Report (2022-23) of IOAC Recommendation of Year 2021-22

Item No.	Recommendations 2021-22	Primary Responsibility	Details of the Action Taken in 2022-23
1	The requirement of SPSS Software for the teachers and students	HOD HSS	<p>Department has discussed and taken quotations from the vendors in this regard. As per the discussion, upgradation of software is required.</p> <p>A licensed version of MS -Office 2023 has also been requested for XL spreadsheet practice to learn advanced formula application in MS-XL. The required Open source software has been installed for use by students.</p>
2a	A cumulative department wise list of the required labs to be decided and proposed	All Heads of the Departments	<p>i) Presently, CSE&IT department is well equipped with latest technology labs. In academic year 2022-23, Dept of CSE&IT has purchased many new devices like NetSim Network simulator, Drone with Camera (AVANI ENTERPRISE Foldable GPS FPV Drone with 1080pHD 4k Camera), PixHawk 2 Cube (Flight Controller), Jetson Nano 4 GB Kit with Wifi, EMOTIV EPOC X 14 Channel Mobile Brain Wear. Establishment of BCI lab, AI for youth lab with industry collaboration is underway.</p> <p>ii) VLSI fabrication laboratory construction approval has been taken by ECE Department.</p> <p>iii) Proposals of Data Analysis Lab and Professional Communication and Practice lab have been submitted by HSS Department.</p> <p>iv) A computational lab with at least 15-20 computer systems equipped with necessary facilities and software by Department of Mathematics is under development.</p> <p>v) Biotechnology Department has proposed an Advanced Research Lab, [for High end research.]</p>

2b	More Laboratory/Tutorial components for skill enhancement to be added to the courses	All Heads of the Departments	<p>i) Department of CSE&IT offers four value added courses in 6th sem which are skill enhancement courses. Additionally, skill enhancement of students is made through knuth programming technical hubs and open source labs.</p> <p>ii) Practical component added in new programme (BSc) in the subjects Life Skills and Effective Communication (1-0-2) and English (1-0-2) by Department of HSS.</p> <p>iii) A lab in the course of Data Structures has been added in B Sc curricula by the Department of Mathematics.</p> <p>iv) Extra tutorial classes have been conducted in almost all the courses by the ECE department.</p> <p>v) Department of Biotechnology has conducted additional labs as listed below:</p> <ul style="list-style-type: none"> • Protein Purification skill (Industry) - Ammonium sulfate fractionation and activity analysis. Course name: Industrial Biotechnology Lab-I, III-year, Odd sem. • Analytical Skill (Industry) - Differential Scanning Calorimetry technique. Course name: Thermodynamics & Chemical processes Lab, II-year, Odd sem.
3	Faculty members to apply for the fellowship for advanced studies or research in India or abroad from national/International agencies	All Heads of the Departments	<p>i) One faculty member from Department of Biotechnology has applied and received fellowship. She is working as a Research Associate at Molecular Dementia and Memory Research Lab (aiLab), College of Medicine and Public Health, Flinders University, Adelaide, South Australia for the period 2nd Feb, 2023 – 31st Dec, 2023.</p> <p>She has applied and also received Visiting and Contractual assignment as</p>

			<p>Research Scientist (Contractual): Research and product development Division, DE AURORA Pty Ltd, 90 Smiths Road, Dean Victoria 3363, Australia.</p> <p>ii) Some of the PMSE faculty members have applied for funded research in collaboration with universities abroad which has windows to visit the host university outside India.</p> <p>iii) One faculty member from Department of Mathematics has applied to an international agency and she has got the approval for research visit in ensuing session.</p>
4	The number of enrolments of research scholars in Ph.D program to be further increased.	All Heads of the Departments	<p>The admission announcement/Advertisement was published in the newspapers and its publicity also has been done through various social media platforms besides its uploading on the IIIT website and its Brochure. A proposal to increase PhD scholarship / TA ship has been submitted to the Management for approval.</p> <p>i) Department of CSE&IT has received 117 applications for Ph. D program and rigorous process of selection, 10 students were admitted.</p> <p>ii) MOUs with core industries have been signed by ECE department. Proposal for advanced fabrication and characterizing laboratories have been made to motivate more Ph. D scholar admissions.</p> <p>iii) Department of HSS has chalked out its plan through promoting of M. Sc Economics Programme so that pass out students may join the Ph. D programme. Department also advertised Ph.D Programme through various academic activities such as knowledge cafe, workshops, seminars and FDPs.</p> <p>iv) JBS has increased scholars from 4 of last year to 6 this year.</p> <p>v) Biotechnology department has shown 10.6% increase of new Enrolments.</p>

5	More efforts to be made by all the departments individually as well as collectively to increase the number of enrolments in P.G. programs.	All Heads of the Departments	<p>JIIT has been registered for CUET (UG) and CUET (PG) conducted by National Testing Agency for admissions to its UG (BSC/BA/BBA)/PG (MSc) programs. TA Fellowship is being given to the M. Tech students at JIIT, Noida. To attract higher quality students to M. Tech and M. Sc. programmes, Scholarship and Research Assistant ships are being given to students having CGPA ≥ 7.5. Fee waiver to M. Sc. entrants ranging from 20% - 50% and Research Assistant fellowship of Rs. 12000/pmonth to 10 M. Tech students per department is being awarded from this year. In-line with NEP 20, 'Design Your Own Degree' scheme has been started in M. Tech. In this scheme, a student can start M. Tech programme in a core area, make a choice for a specialization in the second semester, have an option to opt out with a PG Diploma on completion of first year and rejoin the programme within 5 years and complete it. Some of the initiatives undertaken by the departments are underlined below:</p> <ol style="list-style-type: none"> i) Various efforts (such as organizing awareness program for BSc students, publicity about admission in nearby colleges and on social media, etc.) have been made to increase enrolments in P.G. program. An open house has also been organized by Department of PMSE. ii) Enrollment in PG programs of Biotechnology department has shown considerable improvement due to their consistent efforts. Details are given below: <ul style="list-style-type: none"> • Enrollment number in M.Sc. Microbiology has increased from 27 (year 21-23) to 43 (year 22-24) • Recognizing the critical need for nurturing skilled workforce for fueling the growth of biotechnology sector, DBT supports several biotechnology human resource development and capacity building programmes in the country. In this respect, M.Tech. Biotechnology teaching program has been approved for
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6	<p>Efforts to be made for attracting the Post-Doctoral fellow, Research Associates and other fellows in diverse field of research/thrust areas of research recognised globally in different disciplines.</p>	<p>All Heads of the Departments</p>	<p>i) Project proposals have been submitted to various govt organizations which include post-doctoral fellowship, research associates. The schemes for Gyan veer and Ad hoc faculties have been employed and candidates have been appointed for the same in the Department of ECE.</p> <p>ii) Already few post-doctoral fellows are working in the PMSE department. However, the efforts were made to attract more fellows in the department by encouraging faculty to accept requests for hosting NPDF and RAs under women in Science Scheme and also by encouraging faculty to include RA in the manpower head of projects to be submitted for external funding.</p> <p>iii) Biotechnology Department has been able to execute the following:</p> <ul style="list-style-type: none"> • Awareness through Media coverage (by ANI) of Inauguration of drone project Testing “Validation of blood bag Delivered by Drones compared to conventional method of transportation” with ICMR, GIMS, LHMS

			<ul style="list-style-type: none"> • Monika Antil - 1 Post-Doctoral fellow (Scientist B) in, “Targeting biofilm formation by inhibiting Cysteine biosynthesis pathway enzymes in ESKAPE pathogens with Natural products” in collaboration with RML, DU • Shreya Vasishtha - 1 Research Assistant in “Development of computational framework for Covid-19 multi-omics data analysis” in collaboration with IOB, IT Park, Bangalore • Khabeer Azhar - 1 Research Assistant in “Reverse pharmacology and multi-target approach for designing of novel therapeutics” in collaboration with AIIMS, New Delhi • Varsha Gautam (July-Dec2022), Konika Tyagi (Dec-July 2023) – 1 Senior Fellow, Development of electrochemical biosensor for detection of circulating tumor DNA mutations in acute myeloid leukemia, in collaboration with IRCH, AIIMS, New Delhi. • Pooja Upadhyaya - (1 Project Associate in “Design and fabrication of amperometric enzyme sensors for the detection of Paraben” • Yamini Agarwal - 1 JRF “Study to explore Cross Kingdom Regulation of Anticancerous Indian Herbs derived Xenomirs in Lung Cancer : Basic Research for Future herbal oncotherapeutics”
7	All the departments, particularly departments of Maths, PMSE and JBS to also make efforts to file/ publish the patents and engage themselves in IPR activities.	All Heads of the Departments	<ul style="list-style-type: none"> i) 12 numbers of patents published and 2 patents have been granted in AY 2022-23 by Department of ECE. ii) The faculty members of CSE&IT department have filed and published 4 patents. iii) 1 patent filed and published by HSS faculty in this year. iv) Biotechnology department has filed 4 patents and 2 have been granted this year.

8	All the departments except for JBS to put efforts for consultancy in eligible areas for generating the revenue from it.	All Heads of the Departments	GST number has been obtained as a part of RIDE and now faculty from the departments can go ahead with consultancy projects. Efforts initiated for industrial collaborations for getting help in consultancy research projects. Three MoUs have been signed in AY 2022-23 by the Department of ECE.
9	The departments of CSE/IT, ECE, HSS, JBS, Mathematics and PMSE should try to improve ratio of publications of Books and Chapters in edited Volumes and papers in National/International Conference Proceedings per teacher to greater than 1.0.	All Heads of the Departments	<ul style="list-style-type: none"> i) Faculty members from the department of CSE & IT have published 4 books, 31 book chapters and 51 conference proceedings this year. ii) The faculty members of JBS have published 1 case study, 3 book chapters and 1 Book from International Publisher – Emerald. iii) Department of ECE has signed MoU and encouraged collaborations of faculty members for more conference papers and Books etc. Faculty members from the department have published 5 book chapters and 24 conference proceedings. iv) In this year, PMSE department had organized ICAMN-2022 whose proceedings is under publication in Materials Today: Proceedings. Department has also published 2 books and 7 book chapters. v) Department of Mathematics has published 3 books and 9 book chapters and conference proceedings. vi) 1 book has been published from the department of HSS.
10	The departments of CSE/IT and ECE being the major departments (faculty strength wise) to make concentrated effort to bring more R&D projects in the emerging areas.	Heads of Departments of CSE & IT, ECE	<ul style="list-style-type: none"> i) In this academic year, 6 new projects have been submitted by Dept of CSE&IT under center of education. Also, many projects have been submitted and are under review in CRG-SERB, SIPDA, CSIR-ASPIRE and CSTUP. ii) The faculty members of ECE Department have applied for 14 new research projects in emerging areas in AY 2022-23. iii) Workshops are being conducted by all the departments to orient the faculty members to write more project proposals.

			iv) MOU has been signed with Charles Stuart University, Australia to carry out joint Teaching, Research and Innovation activities. 3 MOU's have been signed with TDR Foundation, KFCL and TT Pvt. Ltd. and joint R&D work with industry funding has been started under these MOU's.
11	The outbound programme, participation of students in seminars, and group discussions like Model United Nations may be continued now, after the Covid-19 pandemic.	JYC Coordinator	Initiatives have been taken to conduct such activities, however, could not conduct the Model United Nations during 2022-23, but conducted in November 2023
12	More efforts to be made to improve the placements of M.Tech. students of ECE and Biotech departments.	Head T & P Heads, ECE & Biotech	<p>i) Total of 56 companies (including 15 core companies) came for campus hiring of M. Tech. ECE students.</p> <p>ii) Three MoUs signed with industry. Integrated M. Tech students got paid internship in the company like Garuda, Paras Drone etc. Companies are looking for one year internship which is working as usp for Integrated M. Tech and B. Tech students.</p> <p>iii) M. Tech BioTech students placement percentage improved from 0% (2022 batch) to 80% (2023) batch.</p> <ul style="list-style-type: none"> • Total of 31 companies (including 04 core companies) came for campus hiring of M. Tech. Biotech students. • Six M. Tech Biotech students graduated, five participated and four got placed. • Integrated M. Tech: Total-15, Eligible-12, Offered employment-6 • MSc BT-27, Received employment-11 • Off-campus training initiative with department support:

			M.Sc Env: 3 – Intern/Paid training; Int. M. Tech: 2- Paid Training, 3-recruited.
13	The leave policy for teaching members could be revised. Some faculty vacations may be converted into special leaves which could be used for medical requirements as per Stakeholder Committee recommendation.	Registrar	This matter is under the consideration of Management.
14	Institute should function with 5-Day Work culture as is the norm with major Institutes in Delhi NCR. This would give impetus to the students to devote their time and efforts in completion of assignments and projects. In lieu of this, additional working hours for the staff could be added in the weekdays.	Registrar	Majority of the classes are scheduled during Weekdays (Monday-Friday), so that the students are able to devote their time and efforts in completion of assignments and projects.
15	The Department of HSS should organize at least one International Conference in every academic year.	Head, HSS	Department of HSS is planning to conduct in the coming year.
16	The teaching departments to organize at least two FDPs of minimum one-week duration in an academic year. And every department (Teaching as well as Non-	All Heads of the Departments (Teaching & Non-Teaching)	i) Department of CSE&IT has organized 6 FDPs of minimum one-week duration in this academic year.

	<p>Teaching departments) to organize at least one Staff Development Programme of minimum 5 days duration to meet the NAAC requirement.</p>		<ul style="list-style-type: none"> ii) Two FDPs have been conducted in AY 2022-23 by ECE Department. Several workshops have been organized to train the lab staff like MATLAB Installation, PCB fabrication etc. iii) Dept. of HSS has conducted two FDPs. The department has initiated a weekly knowledge dissemination named as “Knowledge Cafe” which can be considered a five days programme. iv) Biotechnology department has organized Online Faculty Development Program on the topic "Innovation in Drug Delivery Technologies", 25-30 Jul 2022 v) JP School Teachers’ Training, has been conducted from 22 June – 27 June 2023 by JIIT. vi) PMSE department has organized one FDP and one SDP in this year. To organize two FDP every year for a small department like PMSE, more support would be required to invite at least 5 external speakers (one external speaker per day for each of the FDPs). vii) Mathematics department has organized two events in the session 2022-23. One FDP of one week and another Teacher’s Enrichment Workshop (TEW) of Two-week duration. viii) JBS organized 2 FDP’s of one-week duration each in 2022-23. ix) Total of 19 events were attended by T&P staff for professional development.
17	<p>The Departments, IIC, UBA, etc may group multiple invited talks in the form of an event such as Workshop etc. which may help in getting more points in NAAC and NBA as compared to one-hour invited talk sessions.</p>	<p>All Heads of the Departments & Incharges of IIC, UBA etc</p>	<ul style="list-style-type: none"> i) ECE department has organized 14 workshops of 2/3 days duration. ii) Biotechnology department organized a workshop on “Next Generation Sequencing and its Implications in Agriculture and Human Health”; 5 - 9 Dec 2022 iii) PMSE department regularly organizes invited talks. This year an event “Woman in Science” lecture series was conducted in which several distinguished women scientists from India and abroad delivered invited lectures. In additions, some researchers were invited to deliver lectures. Further the under Optica an

			<p>Workshop was organized and the Department also organized Open Quantum 2023 and National Science Day 2023.</p> <p>iv) G20 Y20 event was conducted in collaboration with UBA and JYC. More such activities will be conducted in future.</p> <p>v) The faculty members of CSE&IT department have participated in IIC, and UBA for organizing talks in the form of events like workshop and invited talks.</p>
18	<p>JIT students through JYC are advised to come up with "Start-up enterprises" in coordination with the Student Entrepreneurship and Incubation cell that has been created on campus to foster the environment of innovation activities in the Institute.</p>	<p>JYC & Student Entrepreneurship and Incubation Cell</p>	<ul style="list-style-type: none"> • A new legal entity 'RIDE' with GST registration has been set up. RIDE (Research, Innovation, Development and Entrepreneurship) is Innovation Hub of JIT with a physical space of 15000 sq. ft. It has 20 Start-up cabins, Innovation Lab and Collaboration space. A legal firm Acumen Juris has been engaged to provide legal support to the startups. In addition, technical and business mentoring will also be provided to the start-ups. Two starts ups have already on boarded at RIDE. It has been further approved that all Industry sponsored projects / consultancy projects at JIT will be operated by RIDE. 3 Industry funded projects have been undertaken till September 2023. Students having start-ups approved for on boarding at RIDE are eligible for fast track mode for completion of degree and deferred placement option via T&P up to 2 years post completion of degree at JIT. • JIT has signed MOUs with Jaypee Healthcare Limited and Jaypee Schools in December 2022 to explore and enhance research, innovation and development opportunities. • MOU with 'Neuphony' for setting up a joint 'Brain Computer Interface' Lab with 30% contribution from Neuphony is currently under review.

19	Post-Covid, sports related participation (both on-campus and off-campus) of the students should be again promoted. Apart from a single annual sports event, periodic small-scale sports events may be conducted on campus to keep the sports spirit intact.	Coordinator of JYC	Initiative has been taken to formally conduct sports activities. Annual Fun Sports Meet (FSM) 2023 in April 2023 had been organized. Many sports events had been conducted in FSM-2023. These majorly includes, Chess, Badminton, Volleyball, etc.
20	A more workable strategy for DVV collection needs to be evolved.	Registrar	A new office under Associate Dean, Institute Data Management has been created to act as repository of all required data of the Institute.

CBP Chamda
06/01/2024
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