

Action Taken Report (2021-22) of IQAC recommendation of Year 2020-21

Item No.	Recommendations (2020-21)	Details of Action Taken (2021-22)
1	Identify the course/s to be taught/evaluated based on project-based learning.	<p>Project based assessment is a major component in TA for every compulsory and elective course. In addition to PBL component in each course as TA component, Department of Biotechnology offers the following courses entirely on Project Based Learning during even and odd semesters of its PG program:</p> <ul style="list-style-type: none"> • Project Based Learning-I (17M17BT111) offered to Integrated M.Tech XI Sem and M.Tech II Sem during even semester. • Project Based Learning-II (17M17BT212) - M.Tech III Sem and Integrated M.Tech during Odd Sem (For M.Tech X Sem and M.Tech III Sem). <p>JBS has also attempted to teach and evaluate certain courses through PBL. This year, some courses in Finance, Marketing, HR and Analytics have been identified and vetted through BOS in both MBA and BBA Programs as PBL based courses.</p>
2	Strengthen PBL with increase in TA component weightage from 7 to 10-15 marks in courses.	This has been incorporated in all the courses for Odd and Even semesters as per the decision taken in the IQAC – IAMC meeting held on January 3, 2022. Every course carries a weightage of minimum 10 marks for Projects in TA.
3	Increase the enrolment in P.G. and Ph.D. program	<p>Rigorous efforts were made for increasing enrolment in PG/PhD programs by all the departments. Posters were printed and circulated. Social media was used for popularizing the courses. Final year students, especially of ECE were also motivated to take up higher studies.</p> <p>For promotion of MSc. Programs, the Heads of the Departments and all faculty members made best efforts to disseminate the admission announcement regarding the program. The posters and brochures were designed, printed and circulated by all faculty members and research scholars in the prominent universities/colleges in and around Delhi NCR.</p>
4	Enhance research activities and bring research projects.	All the research groups in the departments have been sensitized for increasing output. Centre of Excellence (CoE) has been established in the departments of CSE/IT, ECE & Biotech. Three subprojects are ongoing in the CoE. of ECE Department. Department of Biotechnology has been able to get 5 projects sanctioned this year details of which are given below:

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S. No.	Nature of the project	Duration (Years)	Name of the funding agency
1	Design and fabrication of amperometric enzyme sensors for the detection of paraben	2021-2024	DBT, Gol
2	Evaluation of the production strategies, nutritional value and therapeutic properties of probiotic Seabuckthorn juice	2021-2023	DST, GoI & ASRT, Egypt.
3	Reverse pharmacology and multi-target approach for designing of novel therapeutics and candidates for Covid-19.	2022-2024	ICMR, New Delhi
4	Identification of key regulators and their controlling mechanism in a combinatorial Amyotrophic Lateral Sclerosis Network: An Integrated Bioinformatics analysis	2022-2025	LSRB of DRDO
5	Development of Fortified Prebiotic Cookies Using Edible Seeds Ref. No. IP/002/2022	2022-2024	DRID, IIIT, Noida

In addition to the above, the department of Biotechnology has 4 more projects from ICMR, Delhi who are presently under codal formalities. Department of CSE & IT has also received projects from TIH- Bombay and from DRID. Two faculty members from the department of HSS have been successful in publishing two National and one International Patent. One project of amount Rs. 20,97, 335/- has been sanctioned to a faculty member of Department of Mathematics by DRDO, Govt. of India for the period 2022 -2025. Two faculty members from the Dept. of PMSE have received projects from DST, SERB.

<p data-bbox="505 844 1386 870">The following activities on Industry-Academia Innovative practices have been conducted this year:</p> <ol data-bbox="537 896 1479 999" style="list-style-type: none"> <li data-bbox="537 896 1479 948">1. The department of Mathematics has organized workshop/conference in which persons from industries delivered talks, with the details being given below: <ul data-bbox="537 948 1325 999" style="list-style-type: none"> <li data-bbox="537 948 1325 973">• Prof. Prassana R. Mishra, Scientific Analysis Group, DRDO Delhi on 04 Dec, 2021. <li data-bbox="537 973 1325 999">• Mr. Touseef Ahmad, Scientist. Space Application Centre (ISRO) on 28 Aug, 2021.

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		2. Department of Biotechnology has been successful in its efforts to organize workshops on Industry-Academia Innovative practices, details of which are given below:			
		Topic of the Talk	Name & Affiliation of the Speaker	Date	Number of Participants
					Faculty
					Students
		Bioentrepreneurs: The Scope & Future	Dr Decksha Bharatiya, Founder & Director, Genomiki Solutions Pvt. Ltd., NOIDA	22/04/22	10
		Academia Industrial Interaction on "JIIT Biotechnologists as Future Career Consultants"	Ms. Jyoti Saini, Life Sciences Asia Client Capabilities team, McKinsey & Company; Ms. Geetika Bhalla (Senior Capabilities and Insights Analyst, Life Sciences team, Mckinsey Knowledge Center. and Ms. Srishti Mittal, Jr. Analyst, Life Sciences practice, McKinsey & Company	1/10/21	-
		Industry-Institute Interaction: "Cell and gene therapy: Concepts, Risks and Current Manufacturing Challenges"	Avadh Kumar, PhD, Senior Research Scientist, German Centre for Neurodegenerative Diseases, Bonn, Germany.	28/10/21	80 (total participants)
					12
					98
6	Awards for Innovation to be won by Teachers/Research Scholars/Students	The Teachers, Research Scholars and Students of all the departments are constantly being encouraged to be involved in various innovative activities to get awards and recognition. Department of Biotechnology has successfully been able to achieve the same through its students, details of which are given below:			

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		Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
		Exploring the antitumor activity of bioactive components extracted from <i>Zingiber officinale</i>	Ishirjan Kaur	JIIT	29 March 2022	Student
		Nanocarriers for intranasal antiepileptic drug delivery	Anand Upadhyay and team	JIIT	29 March 2022	Student
		Self-Test kit for Autoimmune Disease - Systemic Lupus Erythematosus	Prachi Khare and Team	JIIT	29 March 2022	Student
7.	Increase the Number of PhD's being awarded every year.	Overall 37 students have been awarded PhD this year as compared to 19 students having been awarded last year.				
8	Improve ratio of research publications per teacher in the Journals indexed in Scopus/Web of Science. Books and Chapters in edited Volumes/Books, and papers in National/International Conference Proceedings to greater than 1.5	All the departments of the Institute are constantly making efforts to publish papers in Scopus and Web of Science indexed journals. Almost every department is striving hard to reach the ratio of publication to 1.5 and more.				

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9	Faculty and student exchange program to be promoted for national/international collaborative research	<p>Department of Biotechnology is actively involved in generating MoU as part of Institute-Industry partnerships. Recently it has signed the following MoU's to step up Education Excellence with International students.</p> <ul style="list-style-type: none"> • MoU between JIIT and Study in India (SII), a flagship project of the Ministry of Education (MoE), Govt. of India. (2021-2024). ▪ MoU between JIIT and Education Excellence, an Education & Management consultant, Dhaka, Bangladesh. (2022-2025). <p>The other departments are also making efforts in this regard. JBS has been constantly collaborating for research.</p>
10	T & P Cell to conduct specific sessions for helping students to prepare for interviews in advance; Departments to conduct technical session from placement point of view.	<p>JIIT has strong linkages with industries and carries out a number of activities in association with industry. Head of T&P Department along with his team of officers and support of various academic Department carries out many activities of the linkages effectively.</p> <p>Institute-Industry Linkage Cell has been constituted under the chairmanship of Brig S. Dawar. Head T&P Cell in April 2022 to lead the following activities:</p> <p>(i) To invite industry leaders to address and familiarize the students about various aspects of industrial life and also about their current requirements of the industry. (ii) To have the industry experts as members on the Academic Council and Board of Studies. (iii) To have the industry experts as Visiting/ Adjunct/ Guest Faculty in different Departments. (iv) To organize trainings in specialized areas for the students and teachers by the industry experts. (v) To arrange Faculty Development Programs (FDPs) by associating the experts from industry. (vi) To arrange refresher/ continuing education programs for the industry. (vii) To organize Skill Development Programs in collaboration with industry. (viii) To facilitate faculty to carry out Research & Development Project in association with the industry. (ix) To arrange specialized lectures on entrepreneurship for students by the industry experts. (x) To organize Conferences/ Seminars/ Workshops/ Exhibitions/ Start-up Initiative Meets/ Hackathons in association with the industry. (xi) Any other activity, needed from time to time for the academic enrichment of students and faculty, by associating industry.</p> <p>T & P informs the students 2-3 months in advance to the placement drive being undertaken to prepare the students. It has collaborated with the departments to conduct technical sessions this year. For eg. Department of CSE & IT has conducted two-hour session per week before placement drive this year.</p>

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11	<p>Curricula to be aligned with the current and futuristic needs of industry;</p> <p>T & P Cell and Alumni cell to work together and bridge the gap between education and corporate work and conduct regular sessions with alumni/other corporate people.</p>	<p>Constitution of the Alumni cell has been revised and Department coordinators have been given the responsibility to effectively engage with alumni network. Every department is working together with the Alumni cell. This year, all the major departments have conducted expert talks with the alumni being invited as resource person. Workshops also have been conducted in this regard by the departments. Department of CSE & IT has been able to register 901 alumni who are engaged with big companies or are working as faculty in reputed institutes, in this academic year and their expertise has been utilized through invited talks, workshops and their advice has been sought to align curriculum as per the industry requirements. Departments of ECE and PMSE have organized a good number of technical and motivational talks by departmental alumni this year.</p>
12	<p>Students to be provided more training on communication skills. Language courses on French, Spanish, German, Japanese etc. to be offered</p>	<p>In order to achieve this, the HSS department has undertaken the following initiatives:</p> <ol style="list-style-type: none"> 1. Two hours of lab sessions have been incorporated in English Course which is offered to students of Semester 1. 2. A course named Life skills and Effective Communication has been designed and offered to students of Semester 2. It comprises of Lab Sessions too. 3. A course named Professional and Communication Practice has been designed and offered to students of Semester 3. It has 2 Hours of Lab Sessions. <p>German and French courses are offered to the students of Semester 5, but due to covid and online classes, not many applications were received from the students this year. In the next odd semester, students might opt for it.</p>
13	<p>Faculty development programs to improve behavioral skills, quality of teaching and for training in latest tools and technologies</p>	<p>Dept of CSE & IT has organized 3 FDPs and 1 Summer school in addition to a workshop on Entrepreneurship Skill, Attitude and Behaviour Development to improve behavioural skills of faculty members. Department of HSS has organized 1 FDP and 1 Workshop for this, while JBS has organized 1 FDP and 1CDP (Competency Development Programme). Dept of Mathematics has organized 1 FDP and 1 Two-week Teacher Enrichment Workshop (TEW) in February, 2022. Dept. of Biotechnology has organized a number of Hands on Training programmes for lab staff, faculty and students apart from a 2-week Virtual Workshop & Hands-on Training on "Next Generation Bioinformatics Approaches in Infection Biology" organized in April, 2022.</p>
14	<p>Career advancement opportunities to be provided to non-teaching staff.</p>	<p>Efforts are being made in this regard at the institutional as well as departmental level. Dept of CSE & IT has organized a 5-days technical and communication skill development programme which helped the non-teaching staff in preparing for advancement in career.</p>

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15	Proposals may be submitted for funding to organize professional enrichment programmes through membership schemes of various professional bodies.	Efforts are being made by the departments at different levels. IIEE provides funding for some student activities and technical sponsorship for conferences to departments of CSE & IT and ECE. Two faculty members from CSE department have participated in Unnat Bharat Abhiyan project and have acquired funds. A proposal has been submitted by the Department of IIS to obtain government funding for organizing workshop for students and farmers on rural entrepreneurship.
16	Alumni relationship and Entrepreneurship culture in JIIT to be strengthened.	The Institute has strengthened the functioning of Alumni Cell by reconstituting it and giving it a well-defined responsibility map. Jaypee Incubation and Innovation Center (JIIC) has also been constituted to strengthen innovation practices, thereby encouraging entrepreneurship culture in the Institute. In order to strengthen the bonding with the alumni, the Alumni Cell is required to undertake activities as given below: (a) Maintain a database of the alumni living abroad (both Indian and foreign). (b) Share information with the alumni regarding the latest initiatives of the Institution. (c) Invite Alumni for participation in conferences/webinars. (d) Organize networking get-together (can be online through video conferencing). (e) Identify the distinguished alumni and honour them for supporting in brand building exercise as well as overall development of the Institution. (f) Send emails/SMS for various occasions. Alumnus who have started their own start-ups are regularly invited to deliver talks and encourage the students to chalk out their entrepreneurship goals through innovation practices.
17	Mentoring process to be strengthened	At the beginning of the session mentors are allocated to first year students and these mentors are associated with the allotted batch for 4 years till the time, batch passes out. The mentors stay with the students and guide them throughout the Induction programme of 21 days and thereafter. Mentors meet the mentees from time to time for sorting out the issues faced by the students if any. At the end of semester, the mentor reports are collected from the mentors which have details of issues raised by the students, corrective or counselling measures undertaken by mentors etc.
18	Every Department to organize at least one two-week short-term training program for faculty and industry professionals.	Dept. of Biotechnology has organized 2-week Virtual Workshop & Hands-on Training on "Next Generation Bioinformatics Approaches in Infection Biology" in April 2022. Dept. of CSE & IT has conducted 2-week Summer School on Industry 4.0: Security and Technological Aspects. A Teacher Enrichment Workshop (TEW) of two weeks entitled "Differential Equations and Mathematical Modelling" was conducted by Dept. of Mathematics with funding received from National Centre for Mathematics, A joint centre of IIT Bombay and TIFR, Mumbai during Feb 14 –Feb 27, 2022. The other departments have organized 1-week FDP, SDP or MDP this year.

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19	Every Teaching as well as Non-teaching department to organize at least two professional development programs for staff/lab technician of minimum duration of five days every year.	Department of CSE & IT has organized professional development programs (PDPs) for staff this year. Department of Biotechnology has organized Hands on Training Programme of 1-2 days for staff and teachers apart from FDP.
20	The departments of PMSE and HSS to organize at least one FDP every year.	Dept. of HSS has organized 1 FDP this year. Dept. of PMSE had planned to organize 1 FDP in June 2022 but it was postponed and organized in July 2022.
21	JYC to maintain individual reports of the hubs every year with properly geo-tagged photographs; individual reports of all the events conducted by the hubs to be uploaded regularly on the website for accreditation purpose.	This has been taken care of, by JYC Coordinator, Dr Manish Thakur, who has compiled all the reports of various hubs together in the form of JYC ERD. The hub reports are being regularly updated on website.
22	Alumni Cell to keep a proper record of the students going for higher education.	Alumni Cell is maintaining the record of alumni, who are pursuing their higher studies in India and abroad. The Cell has a record of more than 1100 Alumni, out of which 370 have gone abroad for higher studies. It keeps updating these records by all means of communications and keeps appending the list accordingly.
23	A proper database of the students	The database is being maintained by Dean Students' Welfare centrally.

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	going for competitions and their winning records/ certificates to be maintained centrally by Dean S/W /JYC.	
24	A proper record keeping and tracking of the outgoing students appearing in competitive exams like NET; SET/SLET; GATE; CAT; GRE; GMAT; IAS; IPS; IFS; UPSC etc. to be maintained.	The Alumni Cell has been given the responsibility to maintain and update the record of outgoing students appearing in the competitive exams like NET, SET/SLET; GATE; CAT; GRE; GMAT; IAS; IPS; IFS; UPSC etc.
25	Proper Annual reports to be made for Orientation programs for I Year students, celebration of commemorative events like Independence Day, Republic day or the ones organized by Institutional Cells like NSS, UBA, CEDC, etc. with proper geo-tagged photographs.	The responsibility of maintaining Annual Reports of the commemorative events with geo-tagged photographs has been assigned to Dr Manish Thakur, JYC In-charge. Proper Annual Reports of Orientation Program for I Year is being maintained by Co-ordinator of Induction Program.
26	All the reports with geo-tagged photographs to be maintained for the programs conducted by T & P for the students.	T & P has started maintaining reports with geo-tagged photographs for the programs conducted by the cell for the students.

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