External Expert's Report (First Phase)

Name of the Department	Mathematics and computing
Name and address of the institution	11T (ISM) Dhanbad
Dates of the visit	16-17 Nov/2022
Name, designation, and affiliation of programme Expert	Prof. Nitadri Chatter) re (1 TT PELH), prof. Debalis Kundu (1 TKANPUR) Prof. Sudhin Ghonpande (1 TT BOMRAY), prof. G.P. Roja Sekhan (1 TKHARAGPR)

Score Sheet

- On each of the following parameters, a grading as per the given scale (1 = Poor, 2 = Average, 3 = Good, 4 = Very Good, 5 = Excellent).
- The Expert may choose any score in between 1-5.
- Attribute are indication for the areas of evaluation or assessment.
- Feedback (in terms of score) from the Experts will be shared with the Department without disclosing the identity of the Expert Member.

No.	Parameter	Attributers	Score Scale
1	Teaching programme	Regularity, methods, lecture plan, Syllabus, Teaching aids and Supplements, Reference materials, Pace of teaching, Mentoring/ Authoring, Numerical/ Analytical problems, Research (thesis/non-thesis) component, Scope for academic rehabilitation for weaker students, Pace of learning.	3
2	Academic curriculum	Breadth, Depth, Relevance to research/industry, how contemporary/modern, logical progression, whether overloaded or realistic, Number and variety of electives, innovative components, New/pioneering courses/ Flexibility in terms of minor/double major/dual degree, Popularity.	3
3	Laboratory/experiments, Assignment and exercise	Design and quality of experiments, Relevance, Theory and introduction lectures, Level of student participation (hands-on training) Grading, Standard of machines/equipment, Model experiments, Report writing/submission mechanism, Evaluation process, Attendance level	4
4	Learning methodology aids	Books, Reference, Library, Slides, Tutor, Question Paper, Tutorials, Type of assignments, Computer/net/video library/web-based aids, Archives for reference, Aid for slow paced learning, Scope for improving communication skills.	3

5	Grading/ evaluat	ion Reglisti	
1	system		
-		keeping, Uniformity (year to year; teacher to teacher), Assignment quality and frequency, Tutor support, Academic credentials, Teaching experience, Pages II.	
6	Faculty quality	Student feedback system, Stress on attendance Student feedback system, Stress on attendance Academic credentials Tooghing Process and transparency, Record Process and Tooghing	
	January		
1		and biblect cores)
		Academic credentials, Teaching experience, Research output, Age/competence profile, Articulation, Thesis Philosophy, Office and laboratory space management. P	-
		and laboratory space management P. National/International stature Vicinity, Office and laboratory space management P.	
7	Research contribution	and project supervision records, Peer recognition and awards, National/International stature, Vision and Philosophy, Office and laboratory space management, Reputation among students/scholary/gells.	3
	contribution	Quality Quantity, I	
	1	plan/vision, Translational research, Creation of new company (start-up), industrial collaboration. Quantum, Source and type of facility.	
8		ranslational research, Creation of nove as a find the property of the property	
O	Sponsored Research	company (start-up), industrial collaboration	0
		Output Courses 1	3
	1	of facility created. Feedback for Level of support provided to students.	
		Quantum, Source and type of funding, Level of support provided to students and infrastructures, Uniqueness Dependence/reliance of sponsors Regularity and continuity, Creation of national for its	
)	Industrial consultant	of facility created, Feedback from sponsors, Regularity and continuity, Creation of national facility, Quantum source of Sponsors	1.
	project/ Polisuitancy		4
	Outreach programmes	of facility created, dependence and reliance of sponsors.	1
	programmes	structures uniqueness and infrastructures uniqueness	
0 7	Collaboration	Follows, uniquelless	0
- 1	Collaboration Within or Outside	Number, type and quality of collaboration with academia/R&D/ Industry at national or international level, Special (executive) courses for industry Level and	3
	Dhanbad IIT(ISM)	Project funding (in a collaboration with academic (D. o. p. collaboration with academic (D. o. p. collaboration)	
	Dhanbad	Special (over the strength of meeting (over the strength of meetin	
		rectal (executive) courses for industry Level and Level, Joint supervision of students/	
	International Component	Devel and impact of output from soll-1	2
a	and connection	Number/type/f	3
	connection	program international students scholars Vision	
-	A 1	members Projects, Collaboration Evolution and projects, Collaboration Evolution	
A	Ambience/ Atmosphere in	Number/type/frequency of international students, scholars, Visitors and projects, Collaboration, Exchange members, Projects with foreign companies Congeniality among faculty/staff members, international students of IIT(ISM) students scholars, faculty	
th	he donout	Congeniality and Scholars, faculty 1	2
		Levels and effect: Thempers, scholars and effect.	
In	fragten	Congeniality among faculty/staff members, scholars, students, visitors, Scope for individuals to flourish, relationship, Student-scholar relationship, Overall art and information materials. Tooch a scholar relationship, Overall art and information materials.	
111	nfrastructure (General)	Levels and effectiveness or collective initiatives, Publicity and information materials, Teacher-student Classroom, Seminar halls, Laboratories, World Indiana, Seminar halls, World Indiana, Seminar hall Marchael hall Marchael hall Marchael hall Marchael hall Marchael hall Marchael hall	1.
	2	nd goardin, Seminar halls, Laboratories Workshaper F	4
	a ~	aspects, Hostels, Amenity Control of Scholar of	,
	g	Classroom, Seminar halls, Laboratories, Workshops, Faculty offices, Research Scholar offices/space, Safety eneral administration, Electronic/computer/ network support system	
		network support system.	4
		- J 556H	7

14	Student quality (UG/PG)	Academic background and many	
15	Ch. L.	Academic background and progress, Level of motivation and interest in core subjects, Depth of understanding, Interests and hobbies, Discipline, Future ambition, Communication and comprehension skills, Degree of satisfaction about academic and extra-academic standards.	3
	Scholar)	Level of understanding in core area, Exposure in core specialization, Quality and quantity of research output, Average time for PhD, Motivation and interest, Discipline, Articulation (Communication skill), Ambition, Awareness, National/International exposure, Leadarchia, and the communication skill), Ambition,	4
16	Employability of students and scholars	Companies, Statistics, Student or employer feedback, Salary/perks level, Pattern of employment or employment, Job distribution among UG/PG/PhD students, Relation between elective/training and employment, Relation between academic performance and employment.	4
17	Number, location, sector and professional success profile of alumni, Contribution	Number, location, sector and professional success profile of alumni, Contribution of alumni to his/her profession and society, Alumni-IIT(ISM) link/bond, Participation in or contribution to alma mater, Alumni feedback, Famous alumni and their profile.	4
18	Scientific or Engineering contribution to National/ Society	Quality of academic (non-degree) programs, Short courses, Training, Refresher courses, Societal projects, Large/mega project (product/process), Contribution to strategic sectors (Nuclear/Defence/Space/Energy), Partnership with industry (private/public sector), Quality and reputation of alumni, Academic contributions and impact (publications, book, patents, products).	3
19	Overall Reputation and Standing (national)	General impression about this Department in the country (teaching, research, faculty, staff, students, alumni, research/academic output, peer recognition, technical expertise, infrastructure, Atmosphere and Vision	3
20		General impression about this Department outside the country: Teaching, Research, Faculty, Staff, Students, Alumni, Research/Academic output, Peer recognition, Technical expertise Infrastructure, Atmosphere and Vision.	2
Overa sugges	II feedback and stions	The cooperation and bonhomic among the faculty leave very good. The department offers survey inhovative academic programs of the pacement record appears to be excellent the department	ivd thala
the	betautial from	in hiring high quality faculty members in such	be a way
Sov Lesi Lion		charful in processes and protocolf seem Name and Signature of the thrustering and includive. Appear in our leund place report.	Expert
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