

SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC AUDIT (2021 - 2022)

PROFORMA OF ASSESSMENT

Name of the Department: Physics

Reviewer (Name, Designation & Address):

1. Dean (P & D)- Member
2. Dr. H.R. Ghatak, Prof (ChE) –Member
3. Dr. P.K. Khanna, Prof. (M&H)- Member
4. Dr. M.M.Sinha, Prof (Phy) & HOD Nominee
5. Dr. S.S.Verma, HOD (Physics)- convener

Date of Review: 23.05.2022

NOTE:

- i. Please grade in the box provided for the following parameters in the range of 1-10 with 10 being the highest.
- ii. Leave 'blank' for 'No Comment'.
- iii. Kindly give your opinion on the strength and weakness of the Department and your suggestions for future growth.

A. ACADEMICS

A.1	ICD Program	Score		Remarks	Progress/measures taken (in 2021-2022)
		Self- assessment	Expert assessment		
1.	Curriculum (Structure, Course Syllabi, Flexibility), Theory/practical (contents/ratio).	7	7	<ul style="list-style-type: none">• Curriculum is structured through BOS meeting (which includes external experts and is held once every two years) to cater the need of the students to understand the concepts of Physics at early stage of technical education.• No flexibility is there in the curriculum.• All the practicals are designed keeping correlation with theory in mind both for PH-111 and PH-121, however the same may be re-looked into in future to have even better correlation.	No fresh BOS was held in 2021-22 Practical's are in accordance to theory
2.	Equivalence and Relevance of	8	8	On comparing with 'Model Curriculum for Diploma courses in Engg & Tech 2019'of	As it is

	curriculum at national level			AICTE, it is found that physics curriculum is almost equivalent and relevant at National level.	
3.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects (minor/major)]	8	8	Academic load per week is L=4, T=0 and P=2 for both PH-111 and PH-121.	Load was increased by 1L to cater the needs of online mode teaching due to COVID pandemic
4.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	8	8	Continuous evaluation process comprising of Minors, majors, assignments, quizzes/viva etc. is being followed for theory/practicals.	Continuous evaluation process was followed in combined online & offline teaching modes
5.	Tour/Training/Industrial visits/Internship opportunities provided during the year	6	5	There is as such no internship offered by the department, however basic hands-on training related to the experiments in the laboratory is imparted through the latest audio/video teaching learning modes.	ICD students are not engaged in such activities at our department level
6.	Effectiveness of Assisted Learning, Tutorial System for ICD Students/ Seminars (Refer Course File)	6	5	Partially assisted learning process has been undertaken, which needs to be strengthened by introducing additional tutorial to interact with the students effectively to enhance their knowledge.	Online tutorials and virtual lab practical's were designed for the ICD course students
7.	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	8	8	Faculty mentoring is available via SMS/TGS/Class counselling running at the institute level.	Online TGSMS and class counselor activities were encouraged during online mode of teaching
8.	Practical activities, non-academic and totally related to a specific trade for skill development and <i>developing expertise in a particular group of techniques.</i>	8	7	Being a common course, physics laboratory helps the students in developing the particular skills especially for measuring the physical quantities among all the students irrespective of their branch of study in engineering.	As it is
9.	Linkage of ICD programs to outcome based vocational education (Industry linkage)	6	7	Students are trained in using fundamental measuring instruments (e.g. Vernier Calipers, Screw gauge, Spherometer etc.) useful in various industrial applications.	As it is
10.	Availability of workshop type lab/laboratory for providing hand on training to the	9	8	Hands on training to the students in physics laboratory is provided Regularly.	Along with hands on practical training in offline mode, virtual practical training was also

	students for skill development				designed during online mode of teaching
	Total Score (out of 100)	74	71		

	UG Program	Score			Progress/measures taken (in 2021-2022)
		Self-assessment	Expert assessment		
1.	Curriculum (Structure, Course Syllabi, Flexibility)	7	7	The course syllabi are common to all branches of engineering, but needs to be revised as per requirement of Various disciplines of engineering tech. & AICTE norms.	As it is
2.	Status of study material developed by faculty for students	9	8	Department's faculty has been developing and updating the study material from time to time for both theory and practical.	Online study material was developed by the teachers for session 2021-2022
3.	Relevance of contents of courses taught to the students and scope of improvement (revision of syllabus, addition of new experiments)	7	7	Limited relevancy of course content exists due to common course for all branches of engineering. From time to time syllabi has been revised and new experiments have been added accordingly.	As it is
4.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	8	8	Academic load/week is L=3, T=1 and P=2.	One lecture was added to take care of online teaching schedule due to COVID pandemic in 2021-2022
5.	Modern teaching methods in practice other than the conventional methods E-Assisted Learning (i) Availability of Library Resources (ii) Multi-Media Assisted Teaching	8	7	Difficult to apply modern teaching methods because of limited availability of required teaching tools.	Googleclass was used by teachers for online mode of teaching and smart class room is being used for offline mode of teaching
6.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	7	7	Due to large group of students proper student teacher interaction is inadequate and needs to be improved tutorials and practical.	Continuous evaluation process towards theory, tutorials and practical's was followed in

	(i) Theory and tutorial (ii) Practical (case studies)				combined online & offline teaching modes
7.	Faculty–Student Interaction (Whether any slot is fixed for the students to interact with a teacher, after classes/labs)	7	6	No particular slot exists in the central time table; however individual teachers generally interact with the students and pay individual attention during scheduled class itself.	Teachers were encouraged to make online gooleclasses for TGSMS activities during online mode of teaching in 2021-2022.
8.	Tour/Training/Industrial visits/Internship opportunities	8	7	Being a basic course, physics laboratory trains the students in using various measuring instruments (e.g Vernier calipers and screw gauge) etc. which are useful in the industry. Also during the physics lab, the students learn to verify some of the physical laws.	This component for UG students does not belong to our department.
9.	Effectiveness of Assisted Learning in Tutorial classes/seminars for Students	2.5(5)	2	Due to large class size, conducting tutorial class is not so effective.	As it is
	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	3.5(5)	3.5	From time to time HOD physics advises the faculty to further strengthening the teaching-learning process	As it is
10	Placement %age/higher studies options (last three years)	10	10	Department of physics is not concerned with this activity.	As it is
	Total Score (out of 100)	77	72.5		

	PG Program (Separate for each program)	Score		Remarks	Progress/measures taken (in 2021-2022)
		Self-assessment	Expert assessment		
1.	Curriculum (Structure, Course Syllabi, Flexibility)	7	7	Course syllabi/content is almost as per directions of UGC however choice based system cannot be implemented due to shortage of faculty members.	As it is
2.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	9	8	Weekly load on students is L=20, T=4 and P=8 and in last semester (4 th) some of the students have to complete the project work.	One theory class extra was added in time table to take into account the online teaching schedule.
3.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	8	8	Evaluation process has been done as per institute rules and regulations.	Continuous evaluation process towards theory, tutorials and practical's was followed in combined online & offline teaching modes
4.	Relevance of contents of courses taught to the students and scope of improvement	9	8	Course content is almost as per directions of UGC. Scope for improvement exists and hence from time to time syllabi is being revised by holding BoS meeting once in two years.	As it is
5.	Modern teaching methods in practice other than the conventional method E-Assisted Learning i. Availability of Library Resources and Major Search Engines (like Scopus, Web of Science) ii. Multi-Media Assisted Teaching	8	7	The central library of the institute makes some e-resources available. Multi-media assisted teaching has been implemented effectively. Some of the contents developed by departmental faculty is available online also.	Googleclass was used by teachers for online mode of teaching and smart class room is being used for offline mode of teaching
6.	Technical Societies/ Colloquium for Students i. Departmental Society	6	5	Physics society had been established in 2018 and is working till date.	As it is

	ii. Student Chapter(s) of Professional Societies				
7.	Tour/Training/Industrial visits/Internship opportunities	7	6	Tours to educational/technical institutes (like IIT Ropar, IIT Delhi etc.) used to be organized during previous year but during 2020-2021 it could not be planned due to COVID scenario.	Students had a educational tour to nano science centre IIT Delhi in 2021-2022
8.	Collaboration with other departments (within institute)	7	7	Collaboration with various departments (chemistry, food, mechanical) exists	As it is
9.	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	8	8	Class counsellor/ project teacher mentors the students as and when required.	As it is
10.	Monitoring and continuous evaluation of the project work assigned to the students (mechanism)	8	8	Continuous evaluation by individual teacher for project work is done on almost daily basis. However, at departmental level 2 presentations are held to monitor the student's progress.	As it is
	Total Score (out of 100)	77	72		

A.4	Doctoral (Ph.D) Programmes	Score		Remarks	Progress/measures taken (in 2021-2022)
		Self-assessment	Expert assessment		
1.	Intake of Ph.D Students	6	5	No student was admitted during 2020-21. It may be noted that 4 students had appeared for SET entrance exam in July/Aug-2020, but no-one could qualify it as per UGC norms. During even semester no exam was conducted due to COVID scenario.	One GATE student was enrolled in Ph.D. in 2021-2022 session.
2.	Admission Process	8	8	Students are admitted through SET/NET/GATE. Interview of qualified students is held at the departmental level and after that the students are admitted on the basis of overall merit.	As it is
3.	Pre-Ph.D Courses and Evaluation Process	8	8	Pre-Ph.D course comprises of two subjects Research Methodology and Research related subject. Continuous evaluation	As it is

				process is there as per institute norms.	
4.	Breadth and Depth of Knowledge of Students	7	6	To test the breadth and depth of student's knowledge entrance test/interview are held before the admission.	As it is
5.	Seminar/ Presentations and Technical Communication	7	6	Two seminars are compulsory during the pre-Ph.D course and after that progress of students is monitored by holding seminars at least once per semester.	As it is
6.	Research Facilities available in the Department	7	7	Adequate state-of-the-art research facilities are available in the department.	As it is
7.	Average No. of Research Students/Faculty	7	7	One student per faculty	As it is
8.	Average No. of Research Papers of Ph. D Students (Indexed Journals)	7	7	05	As it is
9.	Average Duration to Complete Ph.D (years)	8	8	Based on last five year's data: Average Duration for full time students:4.5 years(approx.) Average Duration for part time students:6 years(approx.)	As it is
10.	Participation of Research Scholars in Conferences/Workshops	9	8	Two conference/workshop attended by per students during 2020-2021.	Three conference/workshop attended by per students during 2021-2022.
	Total Score (out of 100)	74	70		

B. RESEARCH

		Score		Remarks	Progress/measures taken (in 2021-2022)
		Self-assessment	Expert assessment		
1.	Research Ambience in the Department	8	8	Well-equipped state-of-the-art research labs are available in the department.	As it is
2.	Research Awareness among	8	7	Students present their work at national and international conferences and review literature	As it is

	Doctoral Students			in their area of research from time to time.	
3.	Thrust areas of research in the department	7	7	Department offers research in thrust areas like: Nano materials, Nano technology, precision agriculture, nuclear spectroscopy, photonics and atomic spectroscopy	As it is
4.	Quality of Research	9	8	Research papers are published in good impact factor indexed journals.	Annexure-I gives the quality research publications by departmental faculty members in 2021-2022
5.	Collaborations with other departments (within the institute) and at National, and International levels.	9	8	Collaboration with different departments (Mechanical, Chemistry, Food etc.) with-in institute exists. At National Level collaborations with IUAC, Thapar inst. of Eng. and Tech., IIT Delhi, IIT Jodhpur exist. At international level collaboration with ZEUS experiment exists.	As it is
6.	Impact and Quality of Publications	9	8	Research papers are published in good impact factor indexed journals. Our Ph.D students are well placed in various academic and research institutes.	Increased as departmental faculty members are publishing good/quality research papers (Annexure-I for 2021-2022)
7.	Relevance of Research to Knowledge Generation and Social Relevance	9	8	The students are well placed in various academic and research institutes. The ongoing research on the department is beneficial to society e.g. food, agriculture and biological systems.	As it is
8.	Student Exposure for Attending Quality Conferences/Symposia	9	9	From time to time students attend good quality conferences/workshops/training programmes etc.	As it is
9.	Inter-departmental collaborations	7	6	Collaboration with different departments (Mechanical, Chemistry, Food etc.) with-in institute exists.	Increasing as Prof MM Sinha (Physics) and Prof. Suriender Singh (ECE) have taken a joint Ph.D. scholar in 2021.
10.	Industry/externally funded sponsored research (Numbers and amount)	5	4	Two research projects are submitted to DST and CSIR of 40 lakhs each	As it is
	Total Score (out of 100)	80	73		

General Comments on,

1. Scientific demonstration model experimental kits (about 30) have been added in the department to help students of ICD course to learn science by doing as well as to invite local nearby schools science students to strength the scientific temper.
2. Plan of action of the department for the next five years (in view of NEP 2020)

Comments: Start of 5 year integrated B.Sc. + M.Sc. Programme

3. Significant achievements of the department (faculty/Staff/Students)

Comments:

MSc students:

Pass –out batch	2019	2020	2021	2022
Students Qualified NET/GATE/TET	5	2 (25)	2(10)	1(10)
Placed/Higher Studies	9**(19)	6*(18)	1(10)	2
%age	47.3%	33.3%	30%	30%

Research Scholars:

- SLIET Quality Publication Award (SQPA) has been received by Pradeep Bhatia and Yuhit Gupta
- Three students received Ph.D. degree in the department in session 2021-2022.

4. Placement record of the department (Last three years)

Comments: 30 % of PG students are placed.

5. Scope for training of faculty/staff for further strengthening the teaching-learning process for strengthening the curriculum with the addition of new courses having relevance at National and International levels.

Comments:

Scope exists and during 2020-21 following courses attended by faculty members of the department:

Dr. Prabhdeep kaur, AP and Ms.Kanika Aggarwal, AP attended the following Faculty Development Courses successfully in 2021-2022

S. No	Title	Date	Organization
1.	Module 1 - ORIENTATION TOWARDS TECHNICAL EDUCATION AND CURRICULUM ASPECTS	Aug-Oct 2021	NITTT Chennai
2.	Module 2 - PROFESSIONAL ETHICS & SUSTAINABILITY	Aug-Oct 2021	NITTT Chennai
3.	Module 3 - COMMUNICATION SKILLS MODES & KNOWLEDGE DISSEMINATION	Aug-Oct 2021	NITTT Chennai
4.	Module 4 - INSTRUCTIONAL PLANNING AND DELIVERY	Aug-Oct 2021	NITTT Chennai
5.	Module 5 - TECHNOLOGY ENABLED LEARNING AND LIFE-LONG SELF-LEARNING	Aug-Oct 2021	NITTT Chennai
6.	Module 6 - STUDENT ASSESSMENT AND EVALUATION	Aug-Oct 2021	NITTT Chennai
7.	Module 7 - CREATIVE PROBLEM SOLVING, INNOVATION AND MEANINGFUL R&D	Aug-Oct 2021	NITTT Chennai
8.	Module 8 - INSTITUTIONAL MANAGEMENT AND ADMINISTRATIVE PROCEDURES	Aug-Oct 2021	NITTT Chennai
9.	Introduction to LASER	Jan-April, 2022	Swayam NPTEL, IIT Delhi

6. Effective/Continuous monitoring of faculty/staff in delivery the course contents (at departmental level) for enhancing the teaching-learning process.

Comments:

From time to time, HOD (Physics) advises/instructs/monitors faculty/technical staff to enhance the teaching-learning process.

7. Technical Societies/ Colloquium for Students

(i) Departmental Society:

Comments:

Physics Society for MSc students was established in 2018 and it is still in existence.

(ii) Student Chapter(s) of Professional Societies

Comments: NIL

8. Scope of improvement in the presenting teaching – learning process

Comments:

- By introducing adequate number of more regular faculty and also the technical staff in the department.
- More rooms are required to accommodate the guest faculty and also the research scholars working in computational physics.
- More space for MSc labs is desired.
- Smart class-rooms for UG and ICD are also required.

9. The skill and expertise of the faculty/Technical staff in the department (specific)

Comments:

Sr. No.	Faculty	Expertise/Areas of research
1.	Dr K S Kahlon	Atomic Physics
2.	Dr A S Dhaliwal	Nuclear Physics and Materials Science
3.	Dr M M Sinha	Theoretical condensed matter Physics
4.	Dr S S Ghumman	Nuclear Physics and Materials Science
5.	Dr S S Verma	Theoretical Plasmonics Physics
6.	Dr K S Mann	Atomic Physics and Materials Science
7.	Dr P Kaur	High Energy Physics and Materials Science
8.	Ms K Aggarwal	Materials Science

10. Strengthening laboratory infrastructure (adding of new equipment's and use of present facility for optimum use)

Comments:

- Every year from time to time new equipment are being added. Some major equipment procured during 2020-21 are as follows:
- Hall Effect apparatus, x-band microwave Test bench (Klystron Tube), x-band microwave Gunn diode, Density meter, computer workstation. More equipment have been added in the laboratories in 2021-2022 also.
- Development of M.Sc. computational lab is almost at the final stage.

11. Any other point

- To reduce the gap between offline and online teaching for ICD students a number of videos have been prepared by Prof. K S Kahlon & team for PH-111 and PH-121 experiments which have been found very useful by ICD students. The same are available at:
- <https://online.fliphtml5.com/gscha/rlyc>
- <https://online.fliphtml5.com/gscha/otnk/#p=1>
- To cope-up with the COVID-19 situation special week-end classes were scheduled to provide the hands-on experience in labs via offline classes for UG/20 first year students.
- E-lab manuals for computational Physics (M.Sc) have been prepared and are available at:
- <https://online.fliphtml5.com/gscha/nyso/>
- In addition to this proper reading material was provided to the students in addition to holding online classes via Google classroom/zoom etc.

C. Departmental Infrastructure

		Score		Remarks	Progress/measures taken (in 2021-2022)
		Self-assessment	Expert assessment		
1.	Adequacy of Class Rooms and Multi-Media Facility	6	6	Class-rooms are adequate whereas multimedia facility is available only to MSc students	As it is
2.	Availability of Laboratories	7	7	Laboratories are available to all ICD and UG programme but it is not adequate (in terms of space) to M.Sc. programme	Development of M.Sc. computational lab is almost at the final stage.
3.	Availability of Conference/Seminar Room, etc	6	6	No independent conference/seminar room is available. For this purpose, generally rooms such as ISTE Hall / Computer auditorium/ Training placement hall are used.	As it is
4.	Availability of Seating Space for Faculty and Research Students	7	6	Seating space for guest faculty as well as research scholars working in	As it is

				theoretical physics is inadequate.	
5.	Availability of Internet Services in Research Labs and Class Rooms	9	8	Available in research labs and in smart class rooms only (i.e. not available in all class rooms)	More Wi-fi router systems have been added in the department
6.	Departmental Library and E-Resources	7	7	Department library is well equipped and is handled by one of the laboratory attendant of department of physics. E-resources are available as per provisions made by the central library.	About 91 new graduate and PG books have been added in the departmental library
7.	Computing Facilities and Software	7	7	Computational lab exists in the department for M.Sc. students. Various software like quantum espresso, FDTD are being used in the department for research purpose.	Development of M.Sc. computational lab is almost at the final stage.
8.	Adequacy of Offices and Furnishing for Faculty	7	7	More rooms are required to accommodate the guest faculty in the department.	As it is
9.	Faculty- Student Ratio	5	5	As per the load allocated to department during 2020-21, the average Faculty-Student ratio is 1:61.	Prof. K S Mann has taken VRS from 13.07.2022, so making teacher/student ratio further worst. Need more faculty on regular basis
10.	Support Staff (Technical/Administrative) Adequacy	5	5	Inadequate number of technical staff in laboratory.	As it is
	Total Score (out of 100)	66	64		

SWOT analysis by the department

Strengths:

- Well-equipped labs provide quality education to students.
- Students belonging to various states of India have got admission in M.Sc. programme.
- Faculty have published good number of research papers in various national and international referred journals.
- Research labs are equipped with state-of-the-art equipment such as Electrically cooled X-ray detector, Electrochemical work station, Electron gun, Vector Network Analyzer, X-ray and gamma-ray spectrometers.
- Licensed software such as FDTD, Fortran.
- National conferences organized by the department attract good number of researchers/ experts from all over the India.
- Work-station computing facility and presently it makes use of Quantum Espresso software.
- Many MSc (physics) pass-out students have got admission for higher studies in well-known institutes such as IITs
- Good number of books are available in departmental library.

Weaknesses:

- Inadequate number of regular faculty.
- More space for MSc labs is desired.
- Inadequate number of technical staff in labs.
- More rooms are required to accommodate the guest faculty and also the research scholars working in computational physics.

Opportunities:

- faculty as well as students can enhance their knowledge through available e-resources as well as from well-equipped laboratories.
- adequate research facilities in the fields of materials science, radiation and theoretical physics, are available.

Threats:

Suggestions for improvement:

- More regular faculty members are required so as work related with tutorials and labs can be handled effectively and moreover it will be very helpful to implement the UGC choice based system in MSc (physics) program as well as to float more optional elective subjects to UG students.

- Adequate number of technical staff is desired in labs for better functioning of labs for the students.
- To accommodate the guest faculty as well as research scholars especially working in theoretical physics more rooms are required and also more laboratory space is needed for MSc(Physics) course.
- Faculty members should be encouraged to submit research projects.
- Ways should be evolved to attract a good number of bright students for Ph.D as well as for M.Sc(Physics) program.
- The OBE based scheme needs a bit more improvement and understanding by the faculty.
- ICD load is required to be increased (4-1-2 instead of 4-0-2) to complete the syllabus with optimum tutorial classes.
- There shall be 20 students/teacher in labs in order to demonstrate the experiments effectively. So if more students are there number of teachers should be increased accordingly.
- For students opting for repeat there should be separate classes as there is always overlap between their actual class and repeat one.
- The structure of SET for Ph.D may be reviewed to enhance number of Ph.D admissions.

D. Outcomes

		Score		Remarks	Progress/measures taken (in 2021-2022)
		Self-assessment	Expert assessment		
1.	i. Placements for ICD ii. Placement of B. Tech iii. Placement of Masters Student iv. Placement of Ph. D Students	2.5 (5) 5 (5)	2.0 5	Placement Data for M.Sc. Students is provided at page number 8 (under General Comments on column)	Placement Data for M.Sc. Students is provided at page number 9 (under General Comments on column) 100% of Ph.D Students are placed.
2.	Average No. of Ph. Ds Awarded per Year	7	7	1.8 (Based upon data of last 3 years)	As it is
3.	Publications per Faculty in Indexed Journals/Year (Average of last three years)	8	8	3	As it is Annexure-I (Publications in 2021-2022)
4.	Average Citations per Faculty/Year (Last-Three Years) (Web of Science/Scopus)	6	6	36	As it is
5.	Recognitions; Awards (National/International) to Faculty/Students	0	0	No awards was conferred during 2020-2021	As it is
6.	Consultancy and Externally Funded Projects	0	0	No consultancy & externally funded project granted during 2020-21.	As it is
7.	No. of Ph.D. graduates who took Academics as Career (Last 5 Years)	10	9	8 out of 8 (for last five years) took Academics as Career.	8+3 (in 2022-2022) =11 (for last five years) took Academics as career
8.	Students offered for higher studies	7	7	18.9%% based on 2019, 2020 pass out batches.	As it is
9.	No. of qualified students NET/GATE/CAT etc (State/Central Civil Services)	6	6	18.9% based on 2019, 2020, 2021, 2022 pass out batches.	As it is
10.	Entrepreneurship	3	3	PG students are always encouraged to go for entrepreneurship.	As it is

	Total Score (out of 100)	54.5	53		
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Comments & Suggestions for Improvement:

- Faculty members should be encouraged to submit research projects.
- Mock test series for PG students may be started to increase their pass percentage in NET/GATE/CAT etc.
- Research scholars of the department will be encouraged to do quality research work and present the same effectively at various platforms.

SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY
ACADEMIC AUDIT (2021 - 2022)
SUMMARY SHEET

1.	Name of the Department	Physics					
2.	Name of Reviewer Designation & Address	From Academia					From Industry
		1. Dean (P & D)- Member 2. Dr. H.R. Ghatak, Prof (ChE) –Member 3. Dr. P.K. Khanna, Prof. (M&H)- Member 4. Dr. M.M.Sinha, Prof (Phy) & HOD Nominee 6. Dr. S.S.Verma, HOD (Physics)- convener					--
3.	Date of Meeting						
Score Summary							
Academic				Research (Max Score 100)	Departmental Infrastructure (Max Score 100)	Outcome (Max Score 100)	Total Score (700)
ICD Program (Max Score 100)	UG Program (Max Score 100)	PG Programs (Max Score 100) (Average of all PG programs)	Doctoral Program (Max Score 100)				
71	72.5	72	70	73	64	53.0	475.5

Note: 1. Marks mentioned above is the average of the marks given by the experts.

2. If marks have not been allotted for some attributes by the experts, total score can be scaled to maximum marks.

Note: Marks allotted by experts in 2020-2021 are not changed at all. Only the Progress/measures taken (in 2021-2022) are added in the report.

(Prof. MM Sinha)
HoD-Nominee

(Prof.PK Khanna)
Member

(Prof. H.R. Ghatak)
Member

(Dean (P&D)
Member

(S.S.Verma)
HOD (Physics)