

Indian Institute of Space Science and Technology

Trivandrum – 695547

IQAC – Minutes of Meeting

Date and Time: 4-7-2022 (Monday) 2.00 - 4.00 PM

Mode: online (MS Team)

The following members attended the meeting:

1. Dr.Sam Dayala Dev, Director, IIST – Chairman, IQAC
2. Dr.A.Chandrasekar, Dean (Academic), IIST
3. Dr. Nirmala Rachel James, Professor, IIST
4. Dr. S Murugesh, Professor, IIST
5. Dr. Salih A, Professor, IIST
6. Dr. Manoj BS, Professor, IIST
7. Dr. A M Ramiya, Assistant Professor, IIST
8. Smt.Bindya K R, Deputy Registrar (Admin), IIST
9. Dr. V Sennaraj, Deputy Registrar (Academic), IIST
10. Mr.Aaditya Chaphalkar, Scientist/Engineer 'SE', ISRO, Alumni, IIST
11. Dr.N.Selvaganesan, Professor, IIST- IQAC Co-ordinator

Invited Members

12. Dr. Y.V.N. Krishna Murthy, Registrar, IIST
13. Dr. Deepak Mishra, Professor and Head of Avionics, IIST
14. Dr. Sudheesh Chethil, Associate Professor and Head of Physics, IIST
15. Dr. Sandhya K Y, Professor and Head of Chemistry, IIST
16. Dr. Shaijumon CS, Associate Professor and Head of Humanities, IIST
17. Dr. Lekshmi V. Nair , Professor, IIST
18. Shri. S Ramanathan , Deputy Registrar (Admin), IIST
19. Shri.Hari Prasad R, Deputy Registrar (Finance), IIST
20. Shri. Abdunnasar, Library Officer, IIST
21. Dr. Solomon Ivan, Associate Professor, IIST
22. Dr. Vinoth B R, Associate Professor, IIST
23. Dr. Chris Prema S, Associate Professor, IIST
24. Dr.Sam Noble, Reader, IIST

Chairman, IQAC welcomed all the members to the IQAC online meeting. Chairman, congratulated all the members of the IQAC-AQAR subcommittee for their effort in submitting all the backlog AQARs from 2016-17 to 2020-21 within the specified time. Chairman, briefly dwelt on the purpose of the IQAC and the need for self-assessment for IIST, that would take the institute towards achieving the top rank. Chairman, requested the IQAC Co-ordinator to initiate the various discussion points for today's IQAC meeting and appealed to all the members to provide their suggestions on the various points proposed.

IQAC Coordinator presented the development and activities that have taken place during the academic period 2021-22

- Due to Covid pandemic

- the selection of PG students through interview was held through online platform
- entrance examination for PhD admission was also conducted through online mode
- Online mode of Convocation
- Off line classes for UG/PG/PhD were reinitiated during the even semester (i.e., from February -March 2022)
- Syllabus revision for B.Tech and M.Tech Programs were proposed and to be implemented in the academic year 2022-23
- While AQAR for the years 2016-17 to 2020-21, were uploaded in NAAC portal, the same, for the years 2017-18 and 2020-21 have been submitted and are presently pending for NAAC review.
- NAAC-IQAC webpage is hosted with requisite details
- Student Satisfaction Survey (SSS) is also presently being taken along with regular student's course feedback. Analysis of SSS, however, is still pending.
- Research Collaboration [MoU/NDA signed]
 - MoU with L& T (March 2022)
 - MoU with IISU (April 2022)
 - MoU signed with Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Trivandrum (May 2022)
 - MoU with HSFC (May 2022)
 - NDA with Danish Aerospace Company-Denmark (May 2022)
- Patents
 - Granted – 1
 - Filed – 2
- Inauguration of Space Technology Innovation and Incubation Centre (STIIC) office complex at IIST (12-1-2022)
- No of students placed in industry through placement cell
 - B.Tech. – 107/134
 - M.Tech – 64/102
- Indoor stadium was inaugurated at SAC building
- Increase in intake for ten PG programs were proposed to AICTE (approval pending)

As a comparative study, Co-ordinator outlined the development/improvement of all the activities that have taken place during the academic period 2019-20 and 2020-21.

ITEM	2020-21	2021-22
PG/PhD admission interview	Online	Online
Convocation	Online (16-12-2020)	Online (4-9-2021)
Classes	Odd semester (offline) Even semester (online, towards the end of semester)	Odd Semester (online) Even Semester (offline)
LMS Moodle	Yes	Odd Semester (using LMS Moodle)

No of Students graduated	UG - 106 PG - 105 PhD - 12	Even Semester (offline) UG - : 119 PG - 110 PhD - 17
Syllabus revision for B.Tech and M.Tech Programs	B.Tech (Engineering Physics) M.Tech (Solid State Physics) M.Tech (Optical Engineering) Inclusion of Elective Courses Minor change in Credit(Avionics)	B.Tech (ECE) M.Tech (Control Systems) M.Tech (VLSI and Microsystems) M.Tech (DSP) M.Tech (RF and Microwave Engineering) M.Tech (Power Electronics) M.Tech (Quantum Technology)
Research Collaboration [MoU/NDA signed]	1 (EWI TU DELFT)	6 L&T -1, IISU -1, SCTIMST-1, HSFC -2 and Danish Aerospace Company -1)
Placement (campus)	B.Tech. – 103/140 M.Tech – 18/94	B.Tech. – 107/134 M.Tech – 64/102
Patents Granted	1	3
No of sponsored project initiated	ASRG - 20 Sponsored - 5	ASRG - 10
International Journal (web of science)	207	227
No of Book chapters / Books	48/7	20/3

Further, Co-ordinator presented the action Plan for the academic period 2022-23

Suggested plan	Discussion and Remarks
1. Teaching <ul style="list-style-type: none"> All UG/PG class rooms should be modified/updated as smart class rooms More value added courses and guest lectures shall be arranged Plans to have courses taught by Industrial experts (can be proposed) Syllabus revision 	<ul style="list-style-type: none"> Considered for implementation
2. Research	<ul style="list-style-type: none"> It is expressed that to increase the research outcome, this is mandatory and will ensure the quality of students

<ul style="list-style-type: none"> • Internship with fellowship can be introduced for UG/PG outside students • Steps to attract/enhance the quality of PhD students for admission <ul style="list-style-type: none"> ○ PMR fellowship / AICTE PhD fellowship ○ Advertisement should be little early (Mar/Oct) ○ Flyers can be made and hardcopy should be circulated to NIT's/etc., ○ 'Any time PhD' should be implemented, time to time ○ Provision for converting M.Tech to PhD for regular students ○ Provide admission to PhD programs from candidates from Institute of National Importance and Institute of Eminence and IIST with four year UG degree with a requirement of CGPA. To be implemented for both sponsored and non-sponsored candidates • Guidelines for taking industrial projects • Online thesis submission portal can be established so that students/supervisor can 	<p>coming for internship. It is agreed and suggested that selection process of identifying the students should be tuned properly.</p> <ul style="list-style-type: none"> • To avail of PMR fellowship, IIST should be an Institute of National Importance (INI); efforts are already on for IIST to be an INI • AICTE PhD Fellowship can be planned from academic period 2022-23 – Action should be taken by Dean (Research), IIST • It is agreed that <ul style="list-style-type: none"> • PhD advertisement should go early (March and October) • Hardcopy of the PhD admission flyers should be communicated to all premier institutes (IIT, NIT, Central Universities, etc.,) • Anytime PhD is applicable only for external fellowship and for science stream only. • To retain the quality students, M.Tech to PhD conversion proposal is very important. After detailed discussion, Chairman has requested Dean (Academic) to work and provide the details plan of action that can be implemented for the coming academic years. • It is informed that provision for PhD admission for candidates with four year UG degree from INI and IoE is being implemented from the academic period 2022-23. • It is agreed to create an online thesis submission portal by IIST – Action point for Dean (Academics)/Deputy Registrar(Academics) with SSG, IIST • Dean (Academics) informed that IIST is already a part of QIP PhD program for industries / AICTE approved institutes.
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<p>see the status update of the submitted thesis.</p> <ul style="list-style-type: none"> • QIP PhD program for industries / AICTE approved institutes 	<p>However it is suggested that (i) IIST should communicate the information to government institutions in Kerala and (ii) IIST webpage should contain this information so that the eligible candidate will apply through online portal with IIST as a host institute.</p>
<p>3. Administration</p> <ul style="list-style-type: none"> • Library should be functional till 8.45 PM (or even beyond) on all days • Reading room should be functional for 24x7 at Library <p>○</p>	<ul style="list-style-type: none"> • It is informed that library is functioning till 9.00 PM every day and the reading hall will be operational till 12.00 AM (Midnight). It is informed that based on the students response, increase in time will be decided.
<p>4. Placement</p> <ul style="list-style-type: none"> • More industrial lectures to be organised • Organise soft skill development program/lectures • More summer and final semester internship with industries 	<ul style="list-style-type: none"> • It is decided that department of Humanities should take the responsibility for organising soft skill development program to our UG/PG students. • It is necessary to encourage the UG/PG students to do intern/final year project with industries. This helps the students ensure their campus placement.
<p>5. Any other points</p> <ul style="list-style-type: none"> • Biometric entry for all teaching and research labs • Institute to permit students who are OCI/PIO for UG Admissions from 2022-2023 UG Admission onwards. • Subscription to SCOPUS can be introduced • As a part of NEP 2022 the following points are suggested <ul style="list-style-type: none"> ○ Inclusion of Swayam/NPTEL Courses ○ B.Tech (honours) - One extra 3 credit course from 5th semester to 7th semester 	<ul style="list-style-type: none"> • It is expressed that biometric will be established in all labs and suggested that students should enter and exit in lab only through biometric • It is informed that Institute has permitted students who are holders of OCI/PIO for UG Admissions from 2022-2023 UG Admission onwards • Subscription to SCOPUS is discussed in detail and Chairman requested Shri. Abdunnasar, Library Officer to discuss with other institutions/universities and provide the required feedback to enable SCOPUS at IIST. • After detailed discussion, Chairman recommended to implementing B.Tech (Honours) and 'Minor' at the earliest. It is also agreed that department should include Swayam/NPTEL Courses and self-study course as a part of elective course for UG/PG.

<ul style="list-style-type: none"> ○ Introduction of Minor courses - Interdisciplinary ○ Introduction of Self Study Course (one) ○ Three more extra course during project phase (addition credential) 	<ul style="list-style-type: none"> ● Three more extra course during project phase - Required more discussion before introduction of this point
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Chairman, IQAC thanked all the members for their active participation through online and providing suggestions to improve the quality of the Institute.

Prepared

N.S.
11/8/2022

Dr.N.Selvaganesan

Co-ordinator, IQAC

Approved

S.D.

Dr.Sam Dayala Dev

Chairman, IQAC