HINDUSTAN
INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)
CHENNAI

MINUTES OF THE 33rd MEETING OF THE ACADEMIC COUNCIL

Held on : 5th February 2022 (Saturday)

Time   : 11 a.m.

Venue : Academic Council Hall, V Floor, Founder's Block

Mode   : Blended (Both physical and online mode)

Members Present:

S.No.	Name of Member	Designation
1.	Dr. Mrs. Elizabeth Verghese	Chancellor
2.	Dr. Anand Jacob Verghese	Pro Chancellor (Online)
3.	Dr. S.N. Sridhara	Vice Chancellor
4.	Dr. R.W. Alexander Jesudasan	Pro Vice Chancellor
5.	Dr. P. Deiva Sundari	Principal, KCG College of Technology, Karapakkam, Chennai.
6.	Dr. A.K. Ghosh	Professor, Aerospace Engineering Department, IIT, Kanpur. (Online)
7.	Dr. Gomathi Nayagam	Former Director, National Institute of Wind Energy (Online)
8.	Dr. Geeta Madhavan	Advocate, Chennai. (Online)
9.	Dr. John Philip, Ph.D, FNASc.,	Head, Corrosion Science and Technology Division & Head, IGCAR, Kalpakkam. (Online)
10.	Mr. Ashok Verghese	Director
11.	Dr. Aby Sam	Director

S.No.	Name of Member	Designation
12.	Dr. Annie Jacob	Director, KCG College of Technology, Karapakkam. (Online)
13.	Dr. C. Kezi Selva Vijila	Controller of Examinations
14.	Dr. G. Ilavazhagan	Director – International Affairs
15.	Dr. Angelina Geetha	Dean (Engg. & Tech.) i/c.
16.	Dr. Sheeba Chander	Dean, SPADE
17.	Dr. Uppu Ramachandraiah	Dean (Research)
18.	Dr. P.V. Nagendra Sarma	Dean, School of Law
19.	Dr. R. Asokan	Professor & HOD, Aeronautical Engineering
20.	Dr. P. Vijaya Balan	Professor & HOD, Dept. of Mechanical Engineering
21.	Dr. AL. Vallikannu	Professor & HOD, Dept. of Electronics & Communication Engg.
22.	Dr. V. Ceronmani Sharmila	Professor & HOD, Department of Information Technology
23.	Dr. A.K. Parvathy	Professor & HOD, Dept. of EEE / EIE
24.	Dr. J. Thangakumar	Associate Professor and HoD i/c., Department of CSE
25.	Dr. P. Ranjana	Professor and HoD, Department of Computer Applications
26.	Dr. M. Jaikumar	Professor and HoD Dept. of Automobile Engineering
27.	Dr. V. Preethi	Professor and HoD, Department of Civil Engg.
28.	Dr. B. Vivekanandan	Associate Prof. & HOD i/c, Dept. of Chemical & Bio Tech.
29.	Dr. A. Sherine	Professor and HoD, Languages

S.No.	Name of Member	Designation
30.	Dr. A. Ramesh Babu	Professor and HoD (First Year)
31.	Dr. T. Sudalai Muthu	Professor and Coordinator, IQAC and Head – HGI Joint Research Action Force
32.	Mr. Salim Mahmood	Deputy Director (Admissions)
33.	Dr. Pon.Ramalingam	Registrar

The following members attended the meeting through ONLINE:

S.No.	Name of Member	Designation
34.	Dr. K. Nandakumar	Director - Research
35.	Dr. David T. Easow	Head, SLAAS
36.	Dr. C. Ramesh	Head, SAHS
37.	Dr. Parthasarathy Vasanthakumar	Professor & HOD i/c., Aerospace Engineering
38.	Dr. N. Gokarneshan	Professor and HoD, Dept. of FDA
39.	Dr. R. Devanathan	Professor (Emeritus)
40.	Dr. M.K. Badri Narayanan	Professor and HoD i/c., School of Management
41.	Mr. J. Sudhakar	Professor and HoD., SPADE
42.	Dr. Afrose Farid	Professor & Head SLAAS Admission
43.	Dr. D. Dinakaran	Professor and HoD, ANRO
44.	Dr. T. Sivapriya	Assoc. Professor & HOD i/c., Department of Food Technology
45.	Dr. S. Sivankalai	Chief Librarian
46.	Dr. K. Ramajeyathilagam	Sr. Prof., Aero
47.	Dr. Selvamuthukrishnan	Head, PED

Leave of absence was granted to the following members:

1. Dr. John Varghese   Principal, St. Stephen's College, New Delhi.
2. Ms. Ami Agarwal   Head, CODE

At the outset, Dr. Pon. Ramalingam, Registrar welcomed the members of the Management, External Expert Members, Deans and Heads of Departments and requested the Honourable Chancellor Madam to deliver the opening remarks.

1. **Opening remarks by the Chancellor:**

The Chancellor extended a very warm welcome to all the Academic Council Members and informed that
- The Management had planned to conduct the meeting of the Academic Council on 15th December 2021 but had to reschedule due to some unavoidable reasons.
- Students will report for physical classes from 7th February 2022. The staff and students have been informed to strictly follow Covid protocols on campus as a preventive and precaution measure.
- The NAAC extended the validity of the NAAC Score till the University gets new NAAC Score after evaluation and assessment.
- The SSR has been submitted to NBA for five B.Tech. Programmes recently. The hard work of teachers in the preparation of SSR during this pandemic period is appreciable.
- The Ranking and Accreditations are the significant benchmarks to any Institution. Every staff member in the University should work sincerely and diligently to achieve the targets in the NIRF Ranking, NBA, NAAC and IET accreditations.
- The staff members should enter the attendance data and CIA marks in the ERP regularly without any delay, failing which strict action will be initiated by the Institution.

2. **Address by the Vice Chancellor:**

The Vice Chancellor welcomed the Chancellor, Pro Chancellor, External Expert members, the Directors and other members of the Academic Council. He briefed the members about the roles and responsibilities of the Academic Council as per the UGC Regulations, 2019. He requested the members to offer their valuable suggestions in the Academic Council meetings to strengthen the quality of academic programs of the Institution.

3. Confirmation of the Minutes of the 32nd Meeting of the Academic Council held on 7th August 2021.

The Minutes of the 32nd Meeting of the Academic Council held on 7th August 2021 was confirmed.

4. Action taken report on the Minutes of the 32nd Meeting of the Academic Council held on 7th August 2021.

The Action Taken Report on the Minutes of 32nd Meeting of the Academic Council held on 7th August 2021 was confirmed.

5. Items for approval:

Sl. No.	Items	Decision Taken
5	**Presentation of New formats of the Degree Certificates:** New formats of the Degree Certificates (i) for U.G. Degree; (ii) P.G. Degree and (iii) Ph.D. Degree were presented before the Academic Council for approval to take effect from 12th Convocation – **By the Controller of Examinations.**	**Approved the *three* Degree formats presented by the Controller of Examinations in the Academic Council for UG, PG and Ph.D. Degrees, respectively.** **Further, the members suggested that Honors and Minors programs completed by the students should also be included in the Degree Certificates issued by the Controller Office.** **A separate Grade Card for Honors and Minors should also to be given to the students.**

6	**Resolutions brought forward by Boards of Studies:**	
(i)	**Chairperson, Board of Studies in School of Aeronautical Sciences:**	
	Curriculum and syllabi for Honors in (i) *Aerodynamics*; (ii) *Propulsion* and (iii) *Structures* under **B.Tech. Aeronautical Engineering and B.Tech. Aerospace Engineering** to take effect from the academic year 2021-22 for newly admitted students and existing students as per the Academic Regulations – **By the HoD, Aero.**	**The curriculum and syllabi for Honors courses under B.Tech. Aeronautical Engineering and B.Tech. Aerospace Engineering are approved with the following suggested changes:** **Members suggested that in addition to introducing Honors and Minors in the traditional areas, the department could introduce in the emerging areas like UAV, Drones, Space Technology, etc. The relevant areas in Defence Manufacturing could also be explored in order to offer Honors and Minors programmes.** **Further it was recommended that the HoD, Aero must convene the Board of Studies to present the Curriculum and syllabi for Honors and Minors in the suggested emerging areas and to present the same in the next meeting of the Academic Council.** **'Smart materials and Structures' should be included under "Structures" which is pursued worldwide.**

(ii)	**Chairperson, Board of Studies in School of Building Sciences:**
	Curriculum and syllabi for Honors in *Construction Project Management & Cost Estimation* and Minors in *Geographical Information System* under **B.Tech. Civil Engineering** to take effect from the academic year 2021-22 for newly admitted students and existing students as per the Academic Regulations– **By the HoD i/c., Civil.**	**The curriculum and syllabi for Honors and Minors courses under B.Tech. Civil Engineering are approved**
(iii)	**Chairperson, Board of Studies in School of Mechanical Sciences:**
(a)	Curriculum and syllabi for (**1**) Honors in *Industrial Design* under **B.Tech. Mechanical Engineering;** (**2**) Honors in *Digital Manufacturing* and Minors in *Manufacturing and Design Technology* under **B.Tech. Mechatronics** to take effect from the academic year 2021-22 for newly admitted students and existing students as per the Academic Regulations – **By the HoD, Mech.**	**The curriculum and syllabi for Honors and Minors courses under B.Tech. Mechanical Engineering / Mechatronics are approved with suggestion to include tutorial hours in the curriculum.**
(b)	Curriculum and syllabi for Honors in (i) *Motorsport Engineering*; (ii) *Autotronics*; (iii) *Electric Vehicles and e-Mobility* and (iv) *Self Driving Cars* under **B.Tech. Automobile Engineering** to take effect from the academic year 2021-22 for newly admitted students and existing students as per the Academic Regulations – **By the HoD, Auto.**	**The curriculum and syllabi for Honors courses under B.Tech. Automobile Engineering are approved with the suggestion that "*Electric Vehicles and e-Mobility"* is to be conducted jointly by Automobile and Electrical Engineering departments. Dean (Engg. & Tech.) should coordinate the same.**
(c)	Curriculum and syllabi for (**1**) Honors in (i) *Genetics* and (ii) *Pharmaceutical Bio Technology* under **B.Tech. Bio Technology; (2)** Honors in *Energy Management in Industry* under **B.Tech. Chemical Engineering** to take effect from the academic year 2021-22 for newly admitted students and existing students as per the Academic Regulations – **By the HoD, Bio Tech and Chemical.**	**Members suggested to include "Hydrogen Generation and storage" in the syllabus. Hence, it was decided *to revise and present it in the next meeting of the Academic Council after making necessary corrections pointed in the meeting and also presenting it in the Board of Studies*.**

(iv)		**Chairperson, Board of Studies in School of Electrical Sciences:**	
(a)		Curriculum and syllabi for Honors in *Embedded Systems* and Minors Course in *Biomedical Engineering* under **B.Tech. Electronics and Communication Engineering,** to take effect from the academic year 2021-22 for newly admitted students and existing students as per the Academic Regulations – **By HoD, ECE**	**The curriculum and syllabi for Honors and Minors courses under B.Tech. ECE are approved.**
(b)		Curriculum and syllabi for Honors in *Electric Vehicle Technology* and Minors in *Batteries and Energy Storage Technologies* under **B.Tech. Electrical and Electronics Engineering** to take effect from the academic year 2021-22 for newly admitted students and existing students as per the Academic Regulations – **By the HoD, EEE.**	**Curriculum and syllabi for Minor "Batteries and Energy Storage Technologies" alone Approved.** **The Honors course in Electric Vehicle Technology will be conducted by Automobile Engineering Department jointly with EEE Department.**
(v)		**Chairperson, Board of Studies in School of Computing Sciences:**	
(a)		Curriculum and syllabi for Honors in *Cyber Security* and Minors in *Data Science* under **B.Tech. Computer Science and Engineering** to take effect from the academic year 2021-22 for newly admitted students and existing students as per the Academic Regulations – **By HoD i/c., CSE.**	**Approved with the following suggestions:** **(i) The terminology 'Software Security Management' can be altered as "Safe Quantum and Safe Communications".** **(ii) 'Cyber Attack' can be changed as "Cyber Criminology".**
(b)		Curriculum and syllabi for Honors in *Artificial Intelligence* and Minors in *Cyber Security Essentials under* **B.Tech. Information Technology to** take effect from the academic year 2021-22 for newly admitted students and existing students as per the Academic Regulations – **By HoD., IT.**	**The curriculum and syllabi for Honors and Minors courses under B.Tech. Information Technology are approved.**

(c)		Curriculum and syllabi for **(1) B.C.A. Specializations in** *(i) Artificial Intelligence and Machine Learning; (ii) Internet of Things; (iii) Digital Marketing;* **(2) B.Sc. Artificial Intelligence and Data Analytics; and (3) M.Sc. Artificial Intelligence and Data Analytics** to take effect from the academic year 2022-23 – **By HoD., Computer Applications.**	Deferred to the next meeting of the Academic Council.
(vi)		**Chairperson, Board of Studies in School of Planning, Architecture and Design Excellence (SPADE):**	
		(1) Curriculum and syllabi for **M.Plan (Transportation Planning)**, to take effect from the academic year 2022-23**;** and **(2) Revised curriculum and syllabi for M.Sc. User Experience (Ux) Design** to take effect from the academic year 2021-22 – **By Dean, SPADE.**	**(1) Curriculum and syllabi for M.Plan. (Transportation Planning) are approved.** **(2) Ratification of M.Sc. (User Experience Design) was accepted with a note that here afterwards no program shall be offered without the approval of the Academic Council. Frequent revision of entire curriculum and syllabi is discouraged.**
(vii)		**Chairperson, Board of Studies in Mathematics:**	
		Curriculum and syllabi for **M.Sc. Mathematics** to take effect from the academic year 2022-23 – **By HoD (First Year).**	**During discussion, members pointed out that the syllabi for this program are very generic. The nomenclature of courses need upgradation. Specializations and scope for this programmes are to be included in the syllabi.** *<u>Hence, it was decided to revert back to the Board of Studies</u>* **and to place before the next meeting of the Academic Council.**

7.	Any other items with the permission of the Chair.	
	Items for approval:	
7 (i)	The UGC in its letter D.O. No. F.1-1/2018(Journal/CARE) dated December 2019 has directed to make "Research and Publication Ethics" (RPE) with 2 credits mandatory for all Ph.D. scholars for pre-registration course work in our University from the forthcoming academic session. The detailed syllabus for RPE course has also been communicated by the UGC. As per direction of the UGC, the following amendments / additions to the Academic Regulations relating to Ph.D. programme together with the syllabi are placed before the Academic Council, *to take effect from June 2022 Session - By Dean(Research)*	**Approved.** **Members suggested that a good research problem will yield quality publication. The Research Supervisor has to give proper guidance to the scholars to select a more relevant problem for research. It is also the responsibility of the Research Department to ensure the scholars to choose a good research problem to increase quality of publications in the University.**

Existing Regulations	Proposed amendments / additions
10.0 Course Work: *10.1.* A minimum of *four* courses, relevant to the area of research shall be prescribed by the DC. *One* of the courses should compulsorily be on Research Methodology, provided the scholars have not undergone such course work in their PG programme.	*10.0 Course Work:* *10.1.* A **minimum** of four courses, relevant to the area of research shall be prescribed by the DC subject to a minimum of 8 credits and a maximum of 16 credits. Out of these *two* of the courses should compulsorily be on (i) Research Methodology *and (ii) Research and Publication Ethics (RPE),* for a total of 4 credits
10.2 The credits assigned to the Ph.D. course	*10.* Deleted, since, it has already been covered in 10.1

	work shall be a minimum of *8* credits and a maximum of *16* credits in total.		
	10.3 Out of the *four* courses prescribed to the research scholar, two courses may be chosen from existing PG programmes of HITS, the remaining may be newly designed by the DC and duly approved by Board of Studies. One among the *four* can be in directed self-study / elective mode / MOOC approved by the DC.	*10.3* Courses prescribed to the research scholar, may be chosen from existing PG programmes of HITS, or newly designed by the DC and duly approved by Board of Studies. One among the courses can be in directed self-study / elective mode / MOOC approved by the DC.	
7(ii)	Additions to Academic Regulations relating to (i) B.Tech. and (ii) M.Tech. Programmes, making mandatory for all final year students to publish their project works in Scopus / WoS indexed Conference / Journal or patent **to *take effect from the batch of candidates who will be submitting their project works / theses in April - May 2022 and thereafter* – By Dean (Engg. & Tech.)**	**Approved as follows:** **B.Tech.** **Addition as 20.2. Publications:** Each B.Tech. student shall compulsorily publish one paper minimum in Scopus or WOS indexed journal / conference paper / filing of patent as part of the programme requirement to become eligible for award of degree. All such conference / journal publication(s) should be affiliated with Hindustan Institute of Technology and Science. The patent should be filed with Hindustan	

		Institute of Technology and Science as an applicant.
		A communication from the Publishing agency that the paper is accepted for publication in a Journal / Conference Proceedings (Scopus Indexed) would suffice if the paper is yet to be published.
		Effective from the batch of candidates who will be admitted from the academic year 2022-23 and thereafter.
		M.Tech.
		R.16.2 Publications:
		16.2.1. Modification
		Each M.Tech. student shall compulsorily publish one paper minimum in Scopus or WOS indexed journal / conference paper / filing of patent based on his / her project work as part of the programme requirement to become eligible for award of degree, preferably as a first author. All such conference / journal publication(s) should be affiliated with Hindustan Institute of Technology and Science. The patent should be filed with Hindustan Institute of Technology and Science as an applicant.
		A communication from the Publishing Agency that the paper is accepted for publication in a Journal / Conference Proceedings (Scopus Indexed) would suffice if the paper is yet to be published.
		To take effect forthwith.

8	Resolutions brought forward by Boards of Studies:	
(i)	Chairperson, Board of Studies in Languages:	
	(a) Curriculum and syllabi for **M.A. English under OL Programe** offered by the CODE to take effect from the academic year 2021-22; and **(b)** Change of nomenclature of the Programme **M.A. English Language and Literature (offered in Regular program) as "M.A. English"** *with effect from the academic year 2022-23* – **By the HoD, Languages.**	**(a) The curriculum and syllabi for M.A. English under OL are approved with suggested changes.** **(b) The change of nomenclature from 'M.A. English Language and Literature' to "*M.A. English*" offered in Regular program is approved.**
(ii)	Chairperson, Board of Studies in Computer Science and Engineering:	
	Curriculum and syllabi for **B.Sc. Computer Science (Gaming Design)** to take effect from the academic year 2022-23 – **By the HoD i/c., Computer Science and Engineering.**	**The curriculum and syllabi for B.Sc. Computer Science (Gaming Design) are approved with the suggestion to add courses on latest technology in the curriculum and syllabi.**
(iii)	Chairperson, Board of Studies in Physical Education:	
	Change of nomenclature of the Programme **B.Sc. Physical Education, Health Education and Sports** as **"B.Sc. Physical Education"** *with effect from the academic year 2022-23* – **By Head, Physical Education and Sports.**	**The change of nomenclature is approved.**
(iv)	Chairperson, Board of Studies in Law:	
	As per the Bar Council of India guidelines, **(A)** additions in curriculum and syllabi relating to (i) B.A.,LL.B.; (ii) B.B.A.,LL.B.; and (iii) LL.B. Programmes and **(B)** changes in the examination pattern for 2-Year LL.M. programme, *to take effect forthwith* – **By Dean, School of Law.**	**The additions in the curriculum and syllabi for (i) B.A., LL.B., (ii) B.B.A., LL.B. and (iii) LL.B. are approved to take effect forthwith. The changes in the examination pattern for 2-year LL.M. programme are approved *to take effect from the academic year 2022-23*.**

The Chancellor suggested that in future, frequent revision of curriculum and syllabi to be avoided.

The Pro Vice Chancellor thanked all the members for their valuable suggestions and support.

REGISTRAR.