

**NATIONAL INSTITUTE OF TECHNOLOGY GOA**

**Farmagudi, Ponda, Goa – 403 401**

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**MINUTES OF 23<sup>rd</sup> MEETING OF THE SENATE**

Date : 17<sup>th</sup> August 2023

Time : 2:30 P.M.

Venue : Conference Hall, NIT Goa (**Hybrid Mode**)

Proceedings of the 23<sup>rd</sup> meeting of the Senate of NIT Goa held on 17<sup>th</sup> August 2023 at 2:30 PM in Conference Hall, National Institute of Technology Goa. The meeting was held in Hybrid mode.

**Senate Members**

1	Prof. Omprakash R Jaiswal	Director, NIT Goa	Chairman, Senate
2	Prof. N. C. Shivaprakash	Department of Instrumentation, Indian Institute of Sciences, Bengaluru	External Member
3	Prof. Vijay H. Desai	Department of Mechanical Engineering, NIT Karnataka, Surathkal	External Member
4	Dr. Geetha B	Department of Humanities and Social Sciences, BITS Pilani, K.K. Birla Goa Campus	External Member
5	Dr. Shashidhar K. Kudari	Registrar	Member & Secretary
6	Dr. C. Vyjayanthi	Dean (Academics) and AAC Chairperson	Member
7	Dr. Amol D Rahulkar	Dean (Faculty Welfare)	Member
8	Dr. Damodar Reddy Edla	Dean (Student Welfare)	Member
9	Dr. Velavan Kathirvelu	Dean (Planning & Development)	Member
10	Dr. Chirag Modi	Dean (Research & Consultancy)	Member
11	Dr. Anirban Chatterjee	Dean (Institutional Relations & Alumni Affairs)	Member
12	Dr. Purushothama B R	HoD, CSE	Member
13	Dr. Prashanth G R	HoD, ECE	Member
14	Dr. Soumitra Das	HoD, EEE and AAC member	Member
15	Dr. Sarani Ghosal M.	HoD, HSS & APS	Member
16	Dr. B. Santhi	HoD, MCE	Member
17	Dr. Harikumar M	HoD, CVE	Member
18	Dr. Veerakumar T	AAC Member	Invited Member
19	Dr. Shivnarayan Patidar	AAC Member	Invited Member
20	Dr. Venkatanaresh Kuppili	AAC Member	Invited Member
21	Mr. Amit Kabiraj	AAC Secretary	Invited Member

Following Member remained absent with the permission of the Director and Chairman, Senate:

1. Dr. Geetha B, Professor BITS Pilani

The Senate meeting started with a welcome address by the Member Secretary. Further, Prof. Omprakash R Jaiswal, the Director and Chairman of the Senate welcomed all the External and Internal members of the Senate.

*C. Vyjayanthi*

*10/08/23*

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*Jaiswal*

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**A. To confirm the minutes of the 22<sup>nd</sup> meeting of Senate held on 20/06/2023**

Minutes of 22<sup>nd</sup> meeting of the Senate of NIT Goa held on 20/06/2023 were circulated. Minutes may please be seen in the **Annexure 23.1**. No comments are received.

The Senate is requested to approve the finalized minutes.

***Resolution of the Senate: All the comments received from Prof. Vijay Desai were addressed in the latest 22<sup>nd</sup> MoM. Senate noted and approved the minutes of the 22<sup>nd</sup> meeting.***

**B. Action taken report on the resolutions taken in the last meeting of the Senate**

**B. 23.1. Provisional degrees certificate content revision**

**Resolution of the Senate**

*The Senate approved the proposal and the suggested modifications.*

**Action Taken:** Resolution is implemented.

**B. 23.2. Ratification of the Ph.D. Seat-matrix**

Category →	OPEN	EWS	OBC-NCL	SC	ST	Total
Institute Wise ↓						
Total Strength*	28	7	19	11	5	70
Total Ph.D. students in- position	12	2	11	3	1	29
<b>Total Vacancies</b>	<b>16</b>	<b>5</b>	<b>8</b>	<b>8</b>	<b>4</b>	<b>41</b>

**Action Taken:** Resolution is implemented.

**B. 23.3 Approval for increasing the Ph.D. scholars per faculty under MOE scholarship**

**Resolution of the Senate:** The Senate approved the proposal as below:

- Senate advised to fill up the immediate vacancy of 41 Ph.D. scholars in the current Academic Year (AY: 2023-24).
- From the next academic year (AY: 2024-25), the intake of Ph.D. scholars per faculty under MoE scholarship can be increased by 01 (one) successively each academic year. However, the maximum number of Ph.D. scholars per faculty under MoE scholarship is restricted to 05 (five). Therefore, in Ph.D. admissions July 2024, July 2025 and July 2026, a maximum of three, four and five Ph.D. scholars per faculty under MoE scholarship respectively are to be considered, ensuring that necessary budgetary provision from MOE is made and required facilities, infrastructure and faculty experience is there.

*Budgetary provisions under OH 31 head is to be facilitated accordingly.*

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*W. A. de*

*Desai*



**Action Taken:** Resolution is implemented.

#### B. 23.4. Approval for sanctioning UG/PG project grant from Institute Fund

**Resolution of the Senate:** The Senate approved the proposal as below:

- Upon deliberations, the senate approved an amount with an upper limit of Rs. 75,000/- (Seventy five thousand only) per department where only undergraduate programme is offered and a total amount with an upper limit of Rs. 1,50,000/- (One Lakh fifty thousand only) per department where undergraduate and postgraduate programmes are offered. This fund shall be utilized by the respective departments for carrying out UG and PG Projects as applicable.
- Each department can receive the proposed academic project details and budget requirements from the UG project Batches/PG Students at the start of the project. Department level evaluation may be carried out and based on the projects experimental requirements, the fund is to be distributed in a fair and transparent manner. No stationary items will be reimbursed under this fund.
- The Senate also advised all the departments to apply for DST-FIST scheme, which will help in developing laboratory infrastructure.

**Action Taken:** Resolution is implemented.

#### B. 23.5. Constitution and responsibilities of Academic Affairs Committee (AAC)

**Resolution of the Senate:** The Senate approved the proposal as below:

- The Committee is to be named as "Academic Advisory Committee", and is reconstituted as informed.
- Among the Director's nominee, one will be an Assistant Professor and one will be a Senate member.
- The responsibilities are modified as below:
  - a) To review the degree requirements, syllabus, course content proposed by Board of Studies.
  - b) To review the cases for termination of students and recommend termination of students.
  - c) To consider the applications of students for special academic provisions under exceptional circumstances.
  - d) Periodic review of rules and regulations of academic programmes and recommend changes/modifications if any, to The Senate.
  - e) Overall review of Institute academic activities.

**Action Taken:** Resolution is implemented.

#### B. 23.6. Guidelines for Unfair Mean Practices in Examinations

**Resolution of the Senate:** The Senate approved the item and the suggested modifications are updated in ANNEXURE 22.4. It was suggested to include these rules in the academic rules

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*and regulations document. Also, it was suggested to take an undertaking from the students in this regard, at the beginning of every semester/year stating that he/she will not indulge in any malpractices during exams and that if the student is caught, he/she is bound to abide by the rules and regulations of the Institute*

**Action Taken:** Resolution is implemented.

**B. 23.7. One time credit limit relaxation for Final year B.Tech students for Summer Term backlog registration - 2023**

Sl. No.	Student Name	Roll. No.	B.Tech Year's Completed	Allowed Credits in Summer Term	Requested Credits for registration
1	R Arun	18CSE1027	5 years	12	13
2	P. Ravi Teja	19CSE1017	4 years	12	16
3	R. Kruthik	18CSE1025	5 years	12	17

**Resolution of the Senate:** The Senate approved the proposal as below:

- One time relaxation can be allowed for the said students as they are in final year and due to medical reasons. However, this should not be quoted as precedence in future.

**Action Taken:** Resolution is implemented.

**B.23.8. Revision in the eligibility criterion for admission to Ph.D. Programmes**

**Resolution of the Senate:** The Senate advised to defer the item for now and come up with the complete information on the admission procedure and course structure for direct admissions to Ph.D. program for B.Tech graduates.

**Action Taken:** Noted and is in process.

**B.23.9. Ratification of Academic Calendar July-December 2023 (ODD Semester)**

**Resolution of the Senate:** The Senate ratified the Academic Calendar July-December 2023

**Action Taken:** Noted and Implemented.

**B.23.10. Ratification of B.Tech., DASA and M.Tech. Seat-matrices**

**Resolution of the Senate:** The Senate approved the seat matrices of UG and PG programs, and made the following suggestions:

- DASA admissions for Post graduate programme needs to be explored
- Guidelines for M.Tech Self-financed is to be formulated

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- **DRDO should be notified about the vacancies in NIT Goa and in their candidate selection process one faculty from NIT Goa can be included.**

**Action Taken:** Guidelines for M.Tech Self-financed is placed in 23rd Senate meeting as item no. C.23.9 and rest items are in process.

#### **B.23.11. Institute Policy for Postgraduate Projects/Internships in Collaboration with Industries**

**Resolution of the Senate:** The Senate approved the proposal and based on the deliberations, asked to formulate the guidelines for Postgraduate Project/Internship carried out in collaboration with Industries keeping in view the requirements of NIT Goa. Guidelines are to be framed and a Policy document be prepared by Academic Advisory Committee and after Directors approval it is to be circulated to all the Departments and Industries.

**Action Taken:** Institute policy preparation is in process.

#### **B.23.12. Approval for modifying the course PE150 Physical Education**

**Resolution of the Senate:** The Senate approved suggested modifications of the course PE150 Physical Education.

**Action Taken:** Noted and Implemented

#### **B.23.13. 9<sup>th</sup> Convocation Chief Guest**

**Resolution of the Senate:** The Senate approved the proposal, and suggested the following:

- A distinguished Alumnus from 2014 batch can be the Guest of Honour for the upcoming convocation.
- From next year onwards, distinguished Alumnus from the batch which had graduated 10 years before shall be considered as the Guest of Honour.

**Action Taken:** Noted and the invitation letter sent to Dr K. Sivan, Ex-Chairman, Indian Space Research Organisation (ISRO).

#### **B.23.14. NEP implementation for Undergraduate Programme from AY: 2023-24**

**Resolution of the Senate:** The Senate welcomed the proposal for implementation of NEP in NIT Goa's curriculum, and made the following suggestions:

- Initial framework of the 4 year programme may be formulated and first year course curriculum in compliance with NEP is to be prepared immediately.
- A workshop on NEP implementation is to be conducted
- Total credits may be reduced to around 160
- Inclusion of Indian Knowledge System (IKS) courses

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- Institute can start with minor programs being offered by the older departments i.e., CSE, ECE and EEE with an interdisciplinary element.
- Courses from MOOCs/NPTEL/Coursera can constitute 30-40% of courses offered in Minor programme.
- It is preferred that the Minor programme does not ask for any prerequisite course requirements. The programme should be designed from the basics to the higher level content pertaining to the minor's specialisation. Also, the course contents should not have exact match with courses in the existing curriculum.
- 3 factors may be considered while floating a Minor programme:
  - ✓ Students branch to which admission is taken
  - ✓ Provide flexibility within the Institute
  - ✓ Provide flexibility outside the Institute.

It was opined that few more deliberations are required before finalising.

**Action Taken:** The revised Curriculum, Syllabus and Rules & Regulations to be implemented from AY: 2023-24 is placed in 23<sup>rd</sup> Senate meeting as items C.23.11, C.23.12 and C.23.13.

## AGENDA NOTES

**C.23.1. To consider and approve of the list of candidates of 2017-21 B.Tech batch to be awarded degree in the 9<sup>th</sup> Convocation.**

Total 01 student is recommended for the award of B.Tech. degree in the 9<sup>th</sup> Convocation from the batch 2017-21. The details of eligible students from 2017-21 B.Tech batch is as below.

Dept.	Total No. of Students Appeared for Examination	Total No. of Students Eligible for Degree Award			
		8.5 and above	6.5 and above but less than 8.5	Less than 6.5	Total No. of Students
CSE	1	0	0	1	1
<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>

The total list of B.Tech candidates who had completed all the requirements related to the award of degree from the batches 2017-21 may be seen in Annexure 23.2.

*Senate is requested to approve the same.*

**Resolution of the Senate: Senate approved the list.**

**C.23.2. To consider and approve of the list of candidates of 2018-2022 B.Tech batch to be awarded degree in the 9<sup>th</sup> Convocation.**

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Total 14 students are recommended for the award of B.Tech. degree in the 9<sup>th</sup> Convocation from the batch 2018-2022. The details of eligible students from 2018-2022 B.Tech batch is as below.

Dept.	Total No. of Students Appeared for Examination	Total No. of Students Eligible for Degree Award			
		8.5 and above	6.5 and above but less than 8.5	Less than 6.5	Total No. of Students
CSE	2	0	0	2	2
EEE	2	0	1	1	2
ECE	4	0	2	2	4
CVE	3	0	2	1	3
MCE	3	0	1	2	3
<b>TOTAL</b>	<b>14</b>	<b>0</b>	<b>6</b>	<b>8</b>	<b>14</b>

The total list of B.Tech candidates who had completed all the requirements related to the award of degree from the batches 2018-2022 may be seen in Annexure 23.2.

*Senate is requested to approve the same.*

Resolution of the Senate: Senate approved the list.

**C.23.3. To consider and approve of the list of candidates of 2019-23 B.Tech batch to be awarded degree in the 9<sup>th</sup> Convocation.**

Total 142 students are recommended for the award of B.Tech. degree in the 9<sup>th</sup> Convocation from the batch 2019-23. The details of eligible students from 2019-23 B.Tech batch is as below.

Dept.	Total No. of Students Appeared for Examination	Total No. of Students Eligible for Degree Award			
		8.5 and above	6.5 and above but less than 8.5	Less than 6.5	Total No. of Students
CSE	32	15	15	2	32
EEE	28	7	18	3	28
ECE	33	11	21	1	33
CVE	23	2	21	0	23
MCE	27	11	15	0	26
<b>TOTAL</b>	<b>143</b>	<b>45</b>	<b>91</b>	<b>6</b>	<b>142</b>

The total list of B.Tech candidates who had completed all the requirements related to the award of degree from the batches 2019-23 may be seen in Annexure 23.2.

*Senate is requested to approve the same.*

Resolution of the Senate: Senate approved the list.

*C. Vijayarath*

*Devi*

*Neeraj*

**C.23.4. To consider and approve of the names of medal recipients of 2019-23 B.Tech. batch in the 9<sup>th</sup> Convocation**

There will be one Gold medal called Director's Medal for academic topper of the Institute. There will be five Gold medals for the toppers in each department. The names and details of the recipients are given in the following table.

Sl. No.	Medal Name	Dept.	Reg. No.	Student Name	CGPA
1.	Director's Gold Medal	CSE	19CSE1007	ATHARVA KHADE	9.76
2.	Gold Medal	CSE	19CSE1007	ATHARVA KHADE	9.76
3.	Gold Medal	CIVIL	19CVE1003	ARAVETI GANGA PRATIMA	9.61
4.	Gold Medal	EEE	19EEE1002	ASHWIN CHANDRA JAIN	9.48
5.	Gold Medal	ECE	19ECE1028	RAHUL VISHWANATH SWAR	9.35
6.	Gold Medal	MCE	19MCE1002	ABHINAV UPADHYAY	9.43

*Senate is requested to approve the same.*

**Resolution of the Senate: Senate approved the list.**

**C.23.5. To consider and approve of the list of candidates of 2021-23 M.Tech batch to be awarded degree in the 9<sup>th</sup> Convocation.**

Total 52 students are recommended for the award of B.Tech. degree in the 9<sup>th</sup> Convocation from the batch 2021-23. The details of eligible students from 2021-23 M.Tech batch is as below.

Dept.	Total No. of Students Appeared for Examination	Total No. of Students Eligible for Degree Award			Total No. of Students
		8.5 and above	6.5 and above but less than 8.5	Less than 6.5	
CSE	18	6	12	0	18
EEE	14	5	9	0	14
ECE	20	8	12	0	20
<b>TOTAL</b>	<b>52</b>	<b>19</b>	<b>33</b>	<b>0</b>	<b>52</b>

The total list of M.Tech candidates who had completed all the requirements related to the award of degree from the batches 2021-23 may be seen in **Annexure 23.3.**

*Senate is requested to approve the same.*

**Resolution of the Senate: Senate approved the list.**

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**C.23.6. To consider and approve of the names of medal recipients of 2021-23 M.Tech. batch in the 9<sup>th</sup> Convocation**

There will be one Gold medal called Director's Medal for academic topper of the Institute. There will be five Gold medals for the toppers in each department. The names and details of the recipients are given in the following table.

Sl. No.	Medal Name	Dept.	Reg. No.	Student Name	CGPA
1.	Director's Gold Medal	CSE	21CSE2016	SEAN MONTEIRO	9.84
2.	Gold Medal	CSE	21CSE2016	SEAN MONTEIRO	9.84
3.	Gold Medal	VLSI	21ECE2018	SHOUNAK SANJAY KARAPURKAR	9.44
4.	Gold Medal	PEPS	21EEE2001	ADITYA SHIVANAND SHIRODKAR	9.48

*Senate is requested to approve the same.*

**Resolution of the Senate:** Senate approved the list.

**C.23.7. To consider and approve the list of candidates to be conferred with the Ph.D. degree of the Institute in the 9<sup>th</sup> Convocation**

Nine students are recommended for the award of Ph.D. degree in the 9<sup>th</sup> Convocation who has completed all the requirements towards the award of degree. The details of the students are given in **Annexure 23.4.**

Department	No. of students eligible for the award of Ph.D. degree
CSE	2
HS	3
ECE	3
EEE	1
<b>Total</b>	<b>9</b>

All the Students who obtain PhD Degree after this Senate and before Convocation will be awarded degree during the convocation and the same will be ratified in the next Senate.

*Senate is requested to approve the same.*

**Resolution of the Senate:** Senate approved the item.

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*Prasanna*

**C.23.8. Ratification of Department Board of Studies (BoS) constitution**

The department Board of Studies (BoS) is constituted with their functioning and responsibilities as listed below:

**Constitution:**

- |   |      |             |
|---|------|-------------|
| a) H.O.D  | ---- | Chairperson |
| b) All the regular faculty members of the department                    | ---- | Members     |
| c) Two outside/external experts from Academia/Industry/R&D Organisation | ---- | Members     |

**Functioning:**

- i. The Chairperson may co-opt one more special invite from Academia/Industry/R&D Organisation/Alumnus who will be invited for specific meetings, as nominated by BoS, with the approval of Chairperson Senate,
- ii. The tenure of the two outside/external experts will be for two years,
- iii. Each department shall have Board of Studies (BoS),
- iv. The BoS will look into all the program requirements, curriculum and syllabus of courses offered by the department,
- v. The quorum for each meeting shall be 70%.

**Responsibilities:**

- i. To monitor the conduct of all undergraduate and post graduate courses of the department
- ii. To ensure academic standard and excellence of the courses offered by the department
- iii. To develop/revise the curriculum for courses offered by the department, and recommend the same to Academic Advisory Committee (AAC).
- iv. Any appropriate responsibility or function assigned by the Senate or the Chairman of the Senate or the BOS or the Chairman of the BOS.

The following are the details of the Board of Studies members of each department:

**Department of Applied Sciences**

1. **Prof. T. V. Appa Rao** (Physics)  
Professor and Head, Department of Physics, NIT Warangal
2. **Dr.(Lt). Badekai Ramachandra Bhat** (Chemistry)  
Professor, Department of Chemistry, NITK Surathkal
3. **Prof. Y. N. Reddy** (Mathematics)  
Professor, Dept. of Mathematics, NIT Warangal

**Department of Humanities and Social Sciences**

1. **Dr. Ruchi Sharma** (Economics)  
Professor and HOD, School of HSS, IIT Indore Campus

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2. **Prof. Prasanta Panda** (English)  
Professor of English, Dept of HSS, IIT-BHU, Varanasi

**Department of Civil Engineering**

1. **Dr. K V Jayakumar**  
Emeritus Professor, Dept. of Civil Engineering, NIT Warangal
2. **Dr. Harikrishna M**  
Associate Professor, Dept. of Civil Engineering, NIT Calicut

**Department of Computer Science and Engineering**

1. **Dr. Muralikrishnan K**  
Associate Professor, Department of Computer Science and Engineering, NIT Calicut
2. **Prof. Annappa**  
Professor, Department of Computer Science and Engineering, NITK Surathkal

**Department of Electrical and Electronics Engineering**

1. **Prof. Kishore Chatterjee**  
Professor & Head, Department of EE, IIT Mumbai
2. **Prof. Bidyadhar Subudhi**  
Professor, Electrical Science, IIT Goa & Director of NIT Warangal
3. **Prof. C. Nagamani** (Special invitee)  
Professor, Department of EEE, NIT Trichy

**Department of Electronics and Communication Engineering**

1. **Prof. Anupam Shukla**  
Professor, Department of Information and Communication Technology (ICT),  
ABV-IIITM & Director, SVNIT Surat
2. **Dr. Ravibabu Mulaveesala**  
Associate Professor  
Centre for Sensors, iNstrumentation and cyber-physical Systems Engineering (SeNSE),  
Indian Institute of Technology Delhi

**Department of Mechanical Engineering**

1. **Prof. Animesh Chatterjee**  
Retired Professor, Department of Mechanical Engineering, VNIT, Nagpur
2. **Prof. Shrikantha S Rao**  
Professor, Department of Mechanical Engineering, NIT, Surathkal

*Senate is requested to ratify the same.*

**Resolution of the Senate: The Senate ratified and approved the Constitution of department BoS.**

*C. Vijayanth*

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*Prasanta*

**C.23.9. Ratification of M.Tech Self-financed (Non-Gate) admission guidelines**

In our 22nd Senate Meeting held on 20<sup>th</sup> June 2023, vide agenda item C.22.10, it was discussed that guidelines for M.Tech Self-financed is to be formulated. In continuation to that, the guidelines to admit students for the Full-time Self-Financed (Non-GATE) M.Tech. admissions from Academic year 2023-24 have been formulated and admission notification has been put-up with the approval from Director, NIT Goa. The Senate is requested to ratify the guidelines as given below.

**Guidelines:** The Full-time Self-Financed (Non-GATE) M.Tech. admissions will be against the vacant seats after admission through CCMT, Sponsored and DRDO categories, whose sanctioned posts are listed below.

**Total sanctioned M.Tech seats under various categories**

M.Tech. Programme	CCMT	Sponsored	DRDO	Total
CSE	23	2	2	27
VLSI	23	2	2	27
PEPS	22	2	2	26
<b>Total</b>	<b>68</b>	<b>6</b>	<b>6</b>	<b>80</b>

**Minimum Qualification/Eligibility for M.Tech Programme (Common to all M.Tech Programmes):** Admission shall be open to Indian nationals who have passed B.Tech/B.E. with 60% aggregate or 6.5 CGPA (in the 0-10 point scale grading system) for GEN/OBC/EWS category and minimum 55% aggregate marks or 6.0 CGPA for candidates under SC/ST/PwD category.

**Scholarship:** The student who is selected under Full-time Self-Financed (Non-GATE) category will not receive any scholarship/financial assistantship from NIT Goa.

**Fee Structure:** In line with Institute M.Tech fee structure for AY: 2023-24 and future fee revisions as notified by the Institute from time-to-time.

**Selection Procedure:** Selection of candidates for admission to Full-time Self-Financed (Non-GATE) M.Tech programmes will be based upon the academic performance in the qualifying examinations (B.Tech/B.E.), written test and interview with due weightage for each component as specified by the concerned department.

**Senate is requested to ratify the same.**

**Resolution of the Senate:** The Senate ratified and approved the M.Tech Self-financed (Non-Gate) admission guidelines and its implantation. Senate also approved that the application fee to be collected under this category will be as per the CCMT fee of that academic year.

**C.23.10. Approval for allowing Scopus Journals for Humanities and Social Sciences**

As per our 9<sup>th</sup> Senate amendment, we had modified our “Minimum requirement of publication for the award of Ph.D. degree” as below. The departments of Humanities and Social Sciences have come up with their equivalent journals and hence, it is requested to allow modification of the present rule as below.

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**Present Rule P8.1:**

P8. Minimum requirement of publication for the award of Ph.D. degree

P8.1 A minimum of 3 reputed journal papers are to be published as a part of Ph.D. out of which, two journal papers should be published in SCI/SSCI indexed journals. The specializations where SCI/SSCI journals are not available the *equivalent journals* in the field should be considered with the approval of Chairman, Senate (*Amended in 9th Senate Meeting*).

**Proposed Modification in P8.1**

P8. Minimum requirement of publication for the award of Ph.D. degree

P8.1 A minimum of 3 reputed journal papers are to be published as a part of Ph.D., out of which, *atleast two journal papers should be published in,*

- SCI/SSCI indexed journals (for Engineering and Applied Sciences),
- Scopus, UGC CARE list journals. The third publication can be in book chapter(s) with reputed publishers like Sahitya Akademi, McGraw Hill, Routledge, Penguin, Bloomsbury, Oxford University Press, etc. (for Humanities),
- Scopus, ABDC or SSCI journals (for Social Sciences).

*Senate is requested to approve the same.*

***Resolution of the Senate:*** *The Senate approved the proposed modification. It has also authorized the Director, NIT Goa to eventually identify list of Journals in the areas of Humanities and Social Sciences with moderation by BoS.*

**C.23.11. Approval of the B.Tech course structure from AY: 2023-24**

In compliance with some of the aspects of National Education Policy (NEP 2020), NIT Goa has revised its B.Tech Course structure, Syllabus and Rules & Regulations which are proposed to be implemented from AY: 2023-24. The Institute level B.Tech Course Structure to be implemented from AY: 2023-24, is formulated as given in **Annexure 23.5**. The Course classifications are as given below.

**Course classifications of the B.Tech. programmes from AY: 2023-24**

Sl. No.	Classifications	Course Type	Credits For CGPA	Courses
1	Basic Sciences	BS	21	MA→11, PH→5, CY→5
2	Basic Engineering Sciences and Technical Arts	ES	22	EM→3, BMC→3, BES→6, ICSP→5, ED→3, WP→2
3	Humanities and Social Sciences	HU & HS	7	PC →4, ECO→ 3

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4	Indian Knowledge Systems	<b>IKS</b>	5	HH →2 and an Open Elective course →3
5	Others: Liberal Arts, Innovation & Entrepreneurship	<b>OT</b>	2	LA→1, IE→1
6	Mandatory Learning Courses (Non-Credit)	<b>MLC</b>	0	PE, ES, PEHV
7	Department Core	<b>DC</b>	80-86	Core Theory and Lab courses, Comprehensive Viva-Voce→1, Summer Internship→1, Project Work→6
8	Department Elective (including MOOCs or any other as approved by the Institute)	<b>DE</b>	21-27	7-9 Electives
9	Open Elective (including MOOCs or any other as approved by the Institute)	<b>OE</b>	0-6	Upto 2 Open Electives
<b>Total Credits</b>			<b>170</b>	
10	Minor Program	<b>MR</b>	14-16	

Course abbreviations used in above table:

<b>MA</b> : Mathematics	<b>ICSP</b> : Introduction to Computer Science and Programming	<b>LA</b> : Liberal Arts
<b>PH</b> : Physics	<b>ED</b> : Engineering Drawing	<b>IE</b> : Innovation & Entrepreneurship
<b>CY</b> : Chemistry	<b>WP</b> : Workshop Practices	<b>PE</b> : Physical Education
<b>EM</b> : Engineering Mechanics	<b>PC</b> : Professional Communication	<b>ES</b> : Environmental Studies
<b>BMC</b> : Basics of Mechanical and Civil Engineering	<b>ECO</b> : Economics	<b>PEHV</b> : Professional Ethics and Human Values
<b>BES</b> : Basic Electrical Engg. / Basic Electronics Engg.	<b>HH</b> : Health and Happiness	<b>MOOCs</b> : Massive Open Online Courses

**The key features of the new Course structure and Curriculum are:**

- ✓ Introduction of Minor programs
- ✓ Introduction of courses on Indian Knowledge Systems
- ✓ Facilitating Credit transfer
- ✓ Providing Flexibility and inter-disciplinary learning
- ✓ Facilitating Industry-oriented learning for the students
- ✓ Facilitating skill development - Innovation & Entrepreneurship course is introduced

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**Minor programs** are proposed in the following specializations

- i. Computer Science and Engineering
- ii. Electronics and Communication Engineering
- iii. Electrical and Electronics Engineering
- iv. Computational Mathematics

**Indian Knowledge System:** The following courses are proposed

- i. Health and Happiness
- ii. Yoga
- iii. Ancient Economic Thought: Indian Perspective through Kautilya's Arthashastra
- iv. Vedic Mathematics
- v. Science and Technology in Vedic Literature
- vi. Professional Ethics and Human Values

In the Institute level B.Tech Course Structure given in **Annexure 23.5**, the below courses may be offered in ODD and EVEN Semesters for different departments.

1. All the First year Courses except Mathematics Courses
2. Professional Ethics and Human Values
3. Industrial Economics
4. Environmental Studies
5. Innovation & Entrepreneurship

*Senate is requested to approve the same.*

**Resolution of the Senate:** Senate approved the proposal with the following recommendations:

1. The total number of credits for B.Tech program is reduced to 168.
2. One credit is reduced in Major Project-2 and One credit is reduced in Computer Programming Lab.
3. The total number of credits for Minor in B.Tech program may be increased to 18 credits. In the Minor degree certificate also, CGPA is to be mentioned.
4. Names of the following first year subjects are modified as below:

Sl. No.	Proposed Subject name	Modified Subject Name
1	Mathematics-I	Matrices and Advanced Calculus
2	Mathematics-II	Differential Equations and Vector Calculus
3	Physics	Engineering Physics
4	Physics Lab	Engineering Physics Lab
5	Chemistry	Engineering Chemistry
6	Chemistry	Engineering Chemistry Lab
7	Introduction to Computer Science and Programming	Computer Programming and Problem solving
8	Introduction to Computer Programming Lab with (0-0-3) – 2 credits	Computer Programming Lab with (0-0-2) – 1 credit

5. All the suggested modifications are incorporated in the **Annexure 23.5**.

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**C.23.12. Approval for implementing new Rules and Regulations for the B.Tech programme from AY: 2023-24.**

The new Rules and regulations for the B.Tech programme from AY: 2023-24 is given in **Annexure 23.6.**

It is also requested to allow few of the new rules (as listed below) to be adopted as amendments in the Rules and Regulations for admissions till AY: 2022-23.

Sl. No.	Modification/New Rule proposed in Rules and Regulations from AY: 2023-24	To be considered as amendment in Rules and Regulations for admissions till AY: 2022-23	Remarks
1.	Rule B3 - Role of Faculty Adviser	Rule B3	Applicable for All
2.	Rule B5 -Course registration and Enrolment	Rule B6	Applicable for All
3.	Rule B6 - Additional courses for registration	Rule	Applicable only for 2022-23 admissions
4.	Rule B7 - Transfer of Credits	Rule B 7.2	Applicable for All
5.	Rules B16, B17 – Mid/End/Make-up Examinations	Rule B15 and B16 – minor modifications	Applicable for All
6.	Rule B18 - Supplementary Examination	New rule to be added	Applicable for All
7.	Rule B19.7- Summer Term fee	Rule B19.5 to be added	Applicable for All
8.	Rule B28- Minors in various disciplines	New rule to be added	Applicable only for 2022-23 admissions
9.	Rule B30 – Unfair means	Rule B30– minor modifications	Applicable for All
10.	Rule B31 - Academic Committees	New rule to be added	Applicable for All

*Senate is requested to approve the same.*

**Resolution of the Senate:** *The Senate had detailed deliberations on all the new Rules and Regulations for the B.Tech programme from AY: 2023-24. All the suggested modifications are incorporated in the Annexure 23.6. Also, the following regulations were approved to be considered as amendments to the Rules and Regulations for admissions till AY: 2022-23 (except 'First year' year back).*

Sl. No.	Modification/New Rule proposed in Rules and Regulations from AY: 2023-24	To be considered as amendment in Rules and Regulations for admissions till AY: 2022-23	Remarks
1.	Rule B3 - Role of Faculty Adviser	Rule B3	Applicable for All
2.	Rule B5 - Course registration and Enrolment	Rule B6	Applicable for All

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3.	Rule B6 - Additional courses for registration	New rule to be added	Applicable only for 2022-23 admissions
4.	Rule B7 - Transfer of Credits	Rule B 7.2	
5.	Rules B12 – Attendance requirements	Rule B12 – minor modifications	Applicable for All
6.	Rules B16, B17 – Mid and End/Make-up Examinations	Rule B15 and B16 – minor modifications	Applicable for All
7.	Rule B18 – Re-examination	New rule to be added	Applicable for All
8.	Rule B19.7- Summer Term fee revision	Rule B19.5 is to be added w.r.t summer term fee revision	Applicable for All
9.	Rule B30 – Unfair means	Rule B30– minor modifications	Applicable for All
10.	Rule B31 - Academic Committees	New rule to be added	Applicable for All

**C.23.13. Approval for implementing new Curriculum and Syllabus of First year B.Tech programme from AY: 2023-24**

The new curriculum and detailed Syllabus of First year B.Tech programme from AY: 2023-24 is given in **Annexure 23.7**. List of courses of First year B. Tech. Programme are as below:

Sl. No.	Course Code	Course Name	Type	L-T-P	Credits
1.	MA100	Mathematics-I	BS	3-1-0	4
2.	MA150	Mathematics-II	BS	3-1-0	4
3.	PH100	Physics	BS	3-0-0	3
4.	PH101	Physics Lab	BS	0-0-3	2
5.	CY150	Chemistry	BS	3-0-0	3
6.	CY151	Chemistry Lab	BS	0-0-3	2
7.	HU150	Professional Communication	HU	2-0-3	4
8.	CS100	Introduction to Computer Science and Programming	ES	3-0-0	3
9.	CS101	Introduction to Computer Programming Lab	ES	0-0-3	2
10.	EE100	Basics of Electrical Engineering	ES	2-0-0	2
11.	EE101	Basics of Electrical Engineering Lab	ES	0-0-3	1*
12.	EC150	Basics of Electronics Engineering	ES	2-0-0	2
13.	EC151	Basics of Electronics Engineering Lab	ES	0-0-3	1*
14.	ME100	Engineering Mechanics	ES	3-0-0	3
15.	ME150	Basics of Mechanical and Civil Engineering	ES	3-0-0	3
16.	ME101	Engineering Drawing	ES	1-0-3	3
17.	ME151	Workshop Practices	ES	0-0-3	2
18.	HU100	Liberal Arts	OT	0-0-2	1
19.	HU150	Health & Happiness	IKS	2-0-0	2
20.	PE150	Physical Education	MLC	1-0-2	0 <sup>#</sup>
*: Half-Semester Course, #: Non credit Course				<b>Total Credits</b>	<b>47</b>

Senate is requested to approve the First year Course Syllabus.

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**Resolution of the Senate:** *The Senate approved the First year Course Syllabus with modifications in the following subject names.*

Sl. No.	Proposed Subject name	Modified Subject Name
1	Mathematics-I	Matrices and Advanced Calculus
2	Mathematics-II	Differential Equations and Vector Calculus
3	Physics	Engineering Physics
4	Physics Lab	Engineering Physics Lab
5	Chemistry	Engineering Chemistry
6	Chemistry	Engineering Chemistry Lab
7	Introduction to Computer Science and Programming	Computer Programming and Problem solving
8	Introduction to Computer Programming Lab with (0-0-3) – 2 credits	Computer Programming Lab with (0-0-2) – 1 credit

*All the suggested modifications are incorporated in the Annexure 23.7.*

#### **C.23.14. Approval for Credit equivalencing**

NIT Goa is proposing to implement new Curriculum and syllabus from AY: 2023-24. There are few cases of first year 'year-back' students, with more than 10 first year backlogs and have to repeat them and few with less first year backlogs. To smoothly handle the B.Tech scheme till AY: 2022-23 (OLD) and upcoming B.Tech scheme from AY:2023-24 (NEW) parallely and within the available infrastructure, the following solutions are proposed:

1. For the students with first year 'year-back', it is proposed to shift them to 2023-24 curriculum, syllabus and regulations. All the subjects already passed by them earlier will be considered along with their obtained Grades and credit equivalencing between the two scheme subjects will be carried out on case-to-case basis. This will help them to attend the classes of First year and higher semesters aswell.

It is requested to allow Academic Advisory Committee to carry out the credit equivalencing between the old and new scheme subjects of individual students on a case-to-case basis ensuring that required credits are mapped, with inputs from the respective departments.

2. However, the students with few First-year backlogs will continue with old scheme only.

Further it is requested to authorize its implementation with Director's approval and the same be ratified in the immediately next Senate.

The details of this agenda item will be placed before the 23<sup>rd</sup> Senate.

**Resolution of the Senate:** *The Senate approved the item and allowed to carry out credit equivalencing for the First year 'year back' students on case-to-case basis. The Senate authorized the Director to approve such cases and get the same ratified in the next Senate. Also, in the agenda it is requested to read 'few backlogs' as 'a few backlogs' and 'few with less first year backlogs' as 'few with less than 5 first year backlogs'.*

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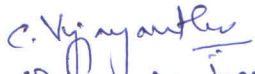
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**C.22.15. Additional items, if any, with permission of The Chairman, Senate.**

There were no additional items

The meeting concluded with a note of thanks from the Member Secretary. The Director & Senate Chairman thanked all the attended members for their valuable suggestions.

  
(Dean - Academics)

  
Secretary

  
Chairman