

**NATIONAL INSTITUTE OF TECHNOLOGY GOA**  
**Farmagudi, Ponda, Goa – 403401**

Phone No: 0832-2404200, Fax No: 2402202



**MINUTES OF 10<sup>th</sup> MEETING OF THE SENATE**

Date	:	08 <sup>th</sup> August 2018
Time	:	04:00 P.M
Venue	:	Conference Hall, NIT Goa

Proceedings of the 10<sup>th</sup> meeting of the SENATE of NIT Goa held on 8th August 2018 (Wednesday) at 4.00PM in Conference hall, NIT Goa

## Senate Members

1	Prof. Gopal Mugeraya	Director, NIT Goa	<b>Chairman Senate</b>
2	Prof. Rajat Gupta	Director, NIT Mizoram, Professor Dept. of Mechanical Engineering, NIT Silchar, Assam	<b>External Member</b>
3	Mrs. Jyoti Vijay	Executive Director & Chief Corporate Relations, BSBS Business Academy, A Unit of BSBS Knowledge Ventures Pvt. Ltd, Bangalore	<b>External Member</b>
4	Prof. Airody Vasudeva Adhikari	Professor, Dept. of Chemistry, NIT Karnataka, Surathkal	<b>External Member</b>
5	Dr. Veena Thenkanidiyoor	Dean (Academics)	Member
6	Dr. Vasantha M.H.	Registrar	Member & Secretary
7	Dr. Suresh Mikkili	Dean(Student Welfare)	Member
8	Dr. P. Saidi Reddy	Dean(Faculty Welfare)	Member
9	Dr. B. Venugopal Reddy	Dean(Research & Consultancy)	Member
10	Dr. Purushothama B. R.,	Dean(Planning and Development)	Member
11	Dr. Sarani Ghoshal M.	Dean(Institutional Relations & Alumni affairs)	Member
12	Dr. Nithin Kumar Y.B.	HoD,ECE	Member
13	Dr. Ragoju Ravi	HoD, HS	Member
14	Dr. Sreeraj E.S.	HoD, EEE	Member
15	Dr. Keshavamurthy B.N.	HoD, CSE	Member
16	Dr. C.Vyjayanthi	Asso. Professor, Dept. of EEE.	Board member
17	Dr. Ravi Prasad K.J	Assistant Professor, Department of Applied Sciences	Member
18	Dr. Prashanth G.R	Associate Professor, Department of ECE	Member
19	Dr. Sunil Kumar	Assistant Professor of Economics, Dept. of Humanities and Social Sciences	Member

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# NATIONAL INSTITUTE OF TECHNOLOGY GOA

Date: 08/08/2018

Time : 4.00 P.M

Venue: Conference Hall, NIT Goa

- A. To confirm the minutes of 9th meeting of Senate held on 03/03/2018**  
Minutes of 9<sup>th</sup> meeting of the Senate of NIT Goa held on 03/03/2018 were circulated. Minutes may please be seen in the ANNEXURE I. (Page No. 9-13)

The Senate is requested to approve the finalized minutes.

**Resolution of the Senate:**

*The Senate approved the minutes of the 9th meeting of Senate.*

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

**Resolution of the Senate:**

*The Senate took note of the actions taken on decisions of the last meeting.*

- C. AGENDA NOTES**

- C.1 To resolve the discrepancy in course codes**

There are some minor discrepancies in course code for UG course on Economics and PG course on Communication Skills and Technical Writing. It is proposed to resolve as follows:

UG:

Course	Department	Existing Code	Proposed Code
Economics	CSE	HS250	As it is
	ECE	HU250	HS250
	EEE	HS250	As it is

PG:

Course	Department	Existing Code	Proposed Code
Communication Skills and Technical Writing	CSE	HU650	HS650
	ECE	HU650	HS650
	EEE	HU650	HS650

Senate may approve the proposed Code.

**Resolution of the Senate:**

*Senate approved the proposed code.*

  
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**C.2 To consider and approve the course code for Mechanical and Civil Engineering**  
**The following codes are proposed:**

Name of the Department	Department Code	Course Code
Mechanical Engineering	MCE	ME
Civil Engineering	CVE	CE

Example:

- ME200 will be pattern of code for a course offered by the Department of Mechanical Engineering
- CE200 will be pattern of code for a course offered by the Department of Civil Engineering

**Resolution of the Senate:**

*Senate approved the proposed department & course codes.*

**C.3 To deliberate and approve the SAC leaves for students**

All India Inter NIT Sports calendar meeting 2018-19 was held at NIT Goa on 8<sup>th</sup> June 2018. A resolution is taken in the meeting that a minimum of 05% additional attendance be given to the students those who take part in All India Inter NIT Tournament.

Senate may discuss and approve the same.

**Resolution of the Senate:**

*Senate had deliberation on this agenda point and it was resolved as follows:*

*Student should seek prior approval from Dean(Student Welfare) and The Director to participate in the inter NIT sports tournament. His/Her absence may be treated as on duty leave.*

**C.4 To ratify the branch change regulations**

Present Regulation for branch change	Proposed Regulation for branch change
B5.1. If the number of students enrolled in any branch of B. Tech. class as on the last instructional day of the second semester is less than the sanctioned strength, then the vacancies in the branches of higher order preference among the students will be filled by transferring students from other branches. All such transfers will be allowed as an incentive for excellent academic performance in the first two semesters. A limited number of students will be allowed	B5.1. The Institute may permit a student to change from one branch of studies to another after the completion of first two semesters who have – a) completed all the common credits required in the first two semesters of their studies, in their first attempt; b) Obtained a CGPA of not less than 8.50 at the end of SECOND semester. Pass/Fail

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<p>transfer to branches of their choice.</p> <p>B5.2. All students who have successfully completed the first two semesters of the course will be eligible for consideration for change of branch, subject to the availability of vacancies. Office of Dean Academics shall give notice after EVEN-Sem result declaration. Applications shall be invited up to 15 days before registration for next Semester (or) as indicated in Branch Change Notice, <i>whichever is earlier. (Amended in 6<sup>th</sup> Senate Meeting)</i></p> <p>B5.3. Pass/Fail courses will not be considered for change of branch under B5.2 above.</p>	<p>courses will not be considered for change of branch criteria.</p> <p>B5.2. Application for branch change must be made by the interested students against a notification made by the Dean (Academics) office.</p> <p>B5.3. The applicants may be allowed a change in branch, strictly in order of merit, subject to the mandatory clause that</p> <p><b>“The actual number of students in the third semester in any particular branch to which the transfer is to be made, should not exceed the sanctioned strength and the actual number of students in any branch from which transfer is being sought does not fall below 75% of the total sanctioned intake”</b></p>
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Senate may approve the same.

**Resolution of the Senate:**

*Senate had deliberation on the issue and approved the same.*

**C.5 Course content change in Management course**

In the existing management (HS 400) curriculum, there is a mismatch between course content and the course name. Though the name of the course is management, most of the modules belong to one of the branch of management called financial management. Students are learning the course without having a basic knowledge in the fundamental management.

Exploring the other peer Institute like NIT Calicut & NIT Warangal it appears that a slight modification is required in the syllabus of management course offered by NIT Goa. The proposed changes are implemented as per the approval from Senate Chairman.

Senate may ratify the same.

This item is withdrawn by the concerned faculty.

**Resolution of the Senate:**

*Senate accepted the same.*

**C.6 To include research methodology as a mandatory learning course**

It is proposed to include Research Methodology as a mandatory learning course for the doctoral students in addition to the course work in which 12 credits need to be earned.

Senate may approve the same.

  
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**Resolution of the Senate:**

*Senate had deliberation on the proposal and in principle accepted the same. However one of the Senate member opined that few more topics should be included in the existing content to make the syllabus versatile and more applicable to all branches. The Senate authorized the Chairman to approve the revised content.*

*However the Senate was informed about a course with the same title being offered in the Department of Humanities and Social Sciences (HSS). Accordingly the Senate recommended to change the name of course offered in HSS department.*

**C.7 To consider inclusion of new courses**

It is proposed to include the following courses:

Sl. No.	Course Name	Whom to be offered	Course Offered by
1.	Basics of Nanoscience and Nanotechnology	Ph.D Students	Dr. Prashanth G.R, Associate Professor, Department of ECE
2.	Physics and Mathematics of Molecular Sensing		
3.	Electron Microscopy in Materials Characterization		
4.	Chemistry of Proteins and Peptides		
5.	Wave Propagation in Periodic Media		
6.	Fluorescence Microscopy and Imaging		
7.	Polymer Science and Engineering		
8.	Organic Electronics		
9.	Microsensor Technologies		
10.	Differential Equations and Linear Algebra	Ph.D Students	Dr. Ravi Prasad K.J, Assistant Professor, Department of Applied Sciences
11.	Medical Imaging		
12.	Principle of Tomographic Imaging		
13.	Linear and Non-linear Optimization		

Senate may deliberate and suggest the modification.

**Resolution of the Senate:**

*Senate had deliberation on the issue and approved that above courses to be offered for the Ph.D students.*



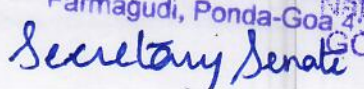
**C.8 To approve the revised content of the Professional Communication –I &Language Lab (Theory cum Practical)**

Senate suggested to revise the content of the Professional Communication –I &Language Lab (Theory cum Practical) in its 9<sup>th</sup> meeting held on 03/03/2018. As per the suggestion of senate content of Professional Communication –I &Language Lab (Theory cum Practical) has been revised. The revised content may be seen as Annexure II (Page no.14-15)

Senate may approve the same.

**Resolution of the Senate:**

*Senate had deliberation on the issue and approved the revised course content.*

  
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**C.9 Additional items, if any, with permission of the Chairman, Senate**

**C.9.1 Inclusion of new courses for Ph.D students**

It is proposed to include following courses i.e.

Sl. No	Course Name	Whom to be offered	Course Offered by
1)	Advanced Numerical Methods	Ph.D	Dr. Ravi Ragoju
2)	Perturbation Methods		
3)	Hydrodynamic Stability		

Senate may deliberate and approve the same

**Resolution of the Senate:**

*Senate had deliberation on the issue and approved that above courses to be offered as 3credits for Ph.D students.*

**C.9.2 Inclusion of JRF /SRF Staff as Internal Registrant Ph.D student (Full Time)**

In our institute there are many meritorious students with master degree and joined project as JRF /SRF though a selection written test are willing to register for Ph.D as internal Registrant research students.

Once the project financial support is exhausted they will be supported with the institute scholarship for a stipulated period of Ph.D programme(maximum 5 year from the date of Joining Ph.D).

**Resolution of the Senate:**

*Senate resolved to approve the inclusion of JRF /SRF Staff as Internal Registrant Ph.D student (Full Time) should be selection process for those student should be same as that of regular Ph.D students.*

*These candidates will be eligible to get the institute scholarship after the completion of scheduled JRF Scholarship.*

  
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**MINUTES OF 9<sup>th</sup> MEETING OF THE SENATE**

Date : 03<sup>rd</sup> March 2018  
Time : 4:00 PM  
Venue : Conference Hall, NIT Goa

## Senate Members

1	Prof. Gopal Mugeraya	Director , National Institute of Technology Goa	<b>Chairman Senate</b>
2	Prof. Rajat Gupta	Director, NIT Mizoram and Professor, Dept. of Mechanical Engineering, National Institute of Technology Silchar, Silchar Dist.-Cachar, State- Assam, Pin - 788010	<b>External Member</b>
3	Mrs. Jyoti Vijay	Executive Director & Chief Corporate Relations, BSBS Business Academy, A Unit of BSBS Knowledge Ventures Pvt. Ltd,Bangalore	<b>External Member</b>
4	Prof. Airody Vasudeva Adhikari	Professor, Dept. of Chemistry, National Institute of Technology Karnataka	<b>External Member</b>
5	Prof. R. P.Sharma	Professor, Civil Dept, NITA	<b>Special Invitee</b>
6	Prof. Vijay Desai	Professor, Mechanical Dept. NITK	<b>Special Invitee</b>
7	Dr. Rajesh Suresh Prabhu Gaonkar	Professor, Mechanical Dept. IIT Goa	<b>Special Invitee</b>
8	Dr. K. G. Guptha	Professor, Civil Engineering, GEC Goa	<b>Special Invitee</b>
9	Dr. Ulhas G. Sawaiker	Professor, Civil Engineering, GEC Goa	<b>Special Invitee</b>
10	Dr. Veena T.	Dean (Academics),Asso. Professor, CSE	Member
11	Dr. Vasantha M.H.	Registrar. Asso. Professor, HoD, ECE	Member & secretary
12	Dr. Sreeraj E.S.	Assistant Professor, HoD, EEE	Member
13	Dr. Damodar Reddy Edla	Assistant Professor, HoD, CSE	Member
14	Dr. Ragoju Ravi	Assistant Professor, HoD, HS	Member
15	Dr. Suresh Mikkili	Dean(Student Welfare)	Member
16	Dr. P. Saidi Reddy	Dean(Faculty Welfare)	Member
17	Dr. Venugopal Reddy	Dean(Research & Consultancy)	Member
18	Dr. Purushothama B. R.,	Dean(Planning and Development)	Member
19	Dr. Sarani Ghoshal M.	Dean(Institutional Relations & Alumni affairs)	Member
20	Dr. C.Vyjayanthi	Asso. Professor, Dept. of EEE.	Board member

Dr. Veena T., who expressed her inability to attend the meeting, was granted leave of absence.

  
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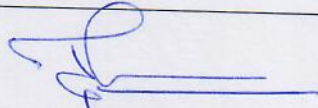
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C.2	Commencement of part-time Ph.D from the academic year 2018-19.	
C.3	Additional items, if any, with permission of the Chairman, Senate.	



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# NATIONAL INSTITUTE OF TECHNOLOGY GOA

Date: 03/03/2018

Time : 4 pm

Venue: Conference Hall, NIT Goa

**A. To confirm the minutes of 8<sup>th</sup> meeting of Senate held on 22/08/2017**

Minutes of 8<sup>th</sup> meeting of the Senate of NIT Goa held on 22.08.2017 were circulated. Minutes may please be seen in the ANNEXURE I.

The Senate is requested to ratify the finalized minutes.

**Resolution of the Senate:**

*The Senate ratified the minutes of the 8th meeting of Senate.*

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

**Resolution of the Senate:**

*The Senate took note of the actions taken on decisions of the last meeting and suggested some modifications. The same has been noted.*

**C.1 Deliberation & Approval of curriculum & syllabus for B.Tech Program in Civil & Mechanical Engineering:**

- The proposed curriculum & syllabus of the first year for B.Tech program in Civil & Mechanical Engineering may be seen in Annexure II [In line with existing B.Tech Programme.]
- The proposed curriculum & syllabus of B.Tech programme in Civil Engineering (II year to IV year) may be seen in Annexure III
- The proposed curriculum & syllabus of B.Tech programme in Mechanical Engineering (II year to IV year) may be seen in Annexure IV

**Resolution of the Senate:**

*The subject experts and senate members deliberated on the proposed curriculum & syllabus. Mechanical experts proposed modification in the contents of "Elements of Mechanical Engineering" in first year syllabus and the same is approved.*

*The content of the Professional Communication –I & Language Lab (Theory cum Practical) need to be revised in par with elite institute. It is opined that should have synergy with requirement of industry and also should have relevance to societal commitment.*

*Senate had deliberation on incorporating the Professional Communication –II & Language Lab (Theory cum Practical) to be offered in 5<sup>th</sup>/ 6<sup>th</sup> semester as mandatory learning course (MLC) with 3 credit. The present MLC named Environmental Studies to be offered as 1 credit course. The total credits are 171 for the award B. tech degree as per Senate resolution.*

*Senate had deliberation on the proposed complete curriculum of 1<sup>st</sup> to VIII semester and detailed syllabus for 1<sup>st</sup> to IV semesters of Civil and Mechanical Engineering programmes.*



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*Senate resolved that, in principle it is approved and Senate authorized the Chairman, Senate to approve the same after incorporating the minor changes proposed by Senate.*

**C.2 Commencement of part-time Ph.D. from the academic year 2018-19:**

Many candidates working in various Institutes and CSIR Labs in Goa and nearby states had approached NIT Goa for part time Ph.D. programme. Considering the demand it is proposed to start part-time Ph.D. programme in NIT Goa and the guidelines for may be seen in Annexure V

**Resolution of the Senate:**

*Senate members had deliberation on the commencement of the part time Ph.D programme. Senate has in principle the Institute to start part time Ph.D programme and following are the minimum requirements*

- *NoC is a must*
- *One semester minimum residential requirements*
- *Statement of purpose of Ph.D programme.*

*All the other rules, regulations and evaluation procedure shall remain at par with the existing regular full time Ph.D. programme at NIT Goa.*

**C.3 Additional items, if any, with permission of the Chairman, Senate:**

**a) Minimum requirement of publication for the award of Ph.D degree**

It is proposed that a minimum of 3 reputed journal papers are to be published as a part of PhD 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.

**Resolution of the Senate:**

*Senate had deliberation on the issue and approved the same.*

**b) Proposal to introduce Entrepreneurship as an open elective for B.Tech programme**

**Resolution of the Senate:**

*Senate had deliberation on the issue and is approved to offer as open elective as a 3 credit course.*

  
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## Annexure II

<b>Subject Code:</b> HU 100	<b>Professional Communication –I &amp; Language Lab (Theory cum Practical)</b>	<b>Credits: 3 (2-0-2)</b> <b>Contact Hours-56</b>
<b>Course Objectives</b>	The modules of this course aim at developing the four skills of Language learning: LSRW. Along with that, it emphasizes the skill of effective communication.	
<b>Course Outcomes</b>	At the end, the learners should be able to comprehend, speak and write in English language.	
<b>Module 1</b>	<b>Principles of Professional Communication</b>	8 hrs
<ul style="list-style-type: none"> <li>a. Definition &amp; Process of Communication-Classification-Types of Verbal &amp; Non-Verbal Communication, Proxemics, Chromatics, Haptics, Chronemics</li> <li>b. Communication Network</li> <li>c. Grapevine</li> <li>d. Noise-Types &amp; how to get rid of it</li> <li>e. Feedback- Types, Process with examples</li> <li>f. Listening-Types, Process and essentials for good listening</li> </ul>		
The learners are now aware of the nuances of effective professional communication.		
<b>Module 2</b>	<b>Listening, Comprehension &amp; Speaking skills</b>	8 hrs
Video Lecture (without subtitles) followed by the oral presentation of the content		
<b>Module 3</b>	<b>7 Cs of Professional Comm</b>	4 hrs
What are the 7Cs Professional Communication?		
Key Skills: Clarity and Conciseness of effective business communication		
<b>Module 4</b>	<b>Writing Skills &amp; Grammar</b>	8 hrs
Technical Writing (Paragraph, Essay & Report), Group Verbs, Sentence Pattern, Exercises on Spotting Errors, Vocabulary, Aptitude Test & Indianism in English, Comprehension, Precis		
<b>Module 5</b>	<b>Business Letters &amp; Correspondences</b>	8 hrs

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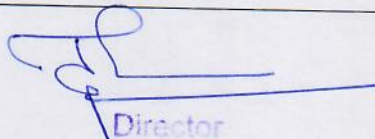
Different types of letters-Sales, Order, Inquiry, Notice, Memo, Agenda, Minutes, Circular		
<b>Module 6</b>	<b>Speaking Skills &amp; Activities</b>	10 hrs
Debate, Technical Presentation on different topics, Survey and Picture Description		
<b>Module 7</b>	<b>Activities</b>	10 hrs
Survey / JAM / Extempore Sessions / Debate		
<b>Texts:</b>	<ul style="list-style-type: none"> <li>• Kaul, Asha. Effective Business Communication, Prentice Hall, New Delhi, 2007</li> <li>• Dhanvel, P.S. <i>English &amp; Soft Skills</i>, Hyderabad: Orient Black Swan, 2010</li> <li>• High School Grammar, Wren &amp; Martin, 2012</li> <li>• Fundamental Concepts of Language Teaching, H.H. Stern, OUP, 1983</li> <li>• Business Communication Essentials, Courtland L Bovee &amp; John V Thill, 2006 (Activity Based Book)</li> </ul>	
<b>References:</b>	Online resources are available. Dailies and Periodicals, Reader's Digest, English Teaching Forum (pub by US Embassy) ** Note: It is not limited to any particular text book.	



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