

विश्वेश्वरय्या राष्ट्रीय प्रौद्योगिकी संस्थान नागपूर — 440010

VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY, NAGPUR – 440 010

DRAFT MINUTES OF THE MEETING OF 63rd SENATE HELD IN THE SENATE HALL OF VNIT, NAGPUR ON THURSDAY THE 2nd DECEMBER, 2021 AT 4.00 PM.

The 63rd Meeting of the Senate was held on 2nd December, 2021 at 4.00 PM in the Senate Hall of VNIT, Nagpur.

The following members were present:

S. N.	Name of Senate Members	Designation / Department		
1.	Dr. Pramod M. Padole	Director, VNIT, Nagpur	Chairman	
2.	Prof. Ashish Darpe	Professor, Mechanical Engg., IIT New Delhi	Member	
3.	Dr. Abhay S. Gandhi	Dean (Academic), VNIT, Nagpur	Member	
4.	Dr. R. R. Yerpude	Dean (Faculty Welfare), VNIT, Nagpur	Member	
5.	Dr. J. D. Ekhe	Dean (Planning & Development), VNIT, Nagpur	Member	
6.	Dr. Dilip H. Lataye	Dean (Students Welfare), VNIT, Nagpur.	Member	
7.	Dr. (Smt.) Madhuri A. Chaudhari	Dean (Research & Consultancy), VNIT, Nagpur	Member	
8.	Dr.L. M.Gupta	Head, Dept.of Applied Mechanics, VNIT, Nagpur.	Member	
9.	Dr. Akshay P Patil	Head, Dept. of Architecture & Planning, VNIT, Nagpur.	Member	
10.	Dr. (Smt.) Anupama Kumar	Head, Dept. of Chemistry, VNIT, Nagpur Me		
11.	Dr. Sachin Mandavgane	Head, Dept. of Chemical Engg., VNIT, Nagpur	Member	
12.	Dr. V. K. Deshpande	Head, Dept. of Physics, VNIT, Nagpur	Member	
13.	Dr. P. S. Deshpande	Head, Dept. of Computer Sci. & Engg., VNIT, Nagpur.	Member	
14.	Dr. G. N. Nimbarte	Head, Dept. of Humanities, VNIT, Nagpur.	Member	
15.	Dr. V.B.Borghate	Head, Dept. of Electrical Engg., VNIT, Nagpur.	Member	
16.	Dr. Jatin Bhatt	Head, Dept. of Metallurgical & Materials Mer Engg., VNIT, Nagpur		
17.	Dr. I. L. Muthreja	Head, Dept. of Mining Engg., VNIT, Nagpur. Mem		
18.	Dr.Y. B. Katpatal	Head, Department of Civil Engg., VNIT Mem Nagpur.		
19.	Dr. S. B. Thombre	Head, Department of Mechanical Engg., Mem VNIT Nagpur.		
20.	Dr. A.G. Keskar	Head, Dept. of Electronics & Member Communication Engineering, VNIT, Nagpur.		
21.	Dr. G. P. Singh	Head, Department of Maths., VNIT	Member	

Draft Minutes of 63rd Senate Meeting held on 2nd December, 2021

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		Nagpur.	
22.	Dr.Rajesh Gupta	Professor, Department of Civil Engg., VNIT Nagpur.	Member
23.	Dr. Rahul Vasant Ralegaonkar	Professor of Civil Engg. VNIT, Nagpur.	Member
24.	Dr. Vishrut Suresh Landge	Professor of Civil Engg., VNIT, Nagpur.	Member
25.	Dr.S.S.Umre	Professor of Chemistry, VNIT, Nagpur.	Member
26.	Dr. O. R. Jaiswal	Professor of Applied Mechanics, VNIT, Nagpur	Member
27.	Dr. R.K. Ingle	Professor of Applied Mechanics, VNIT, Nagpur.	Member
28.	Dr. U.A. Deshpande	Professor, Dept. of Computer Sci. & Engg., VNIT, Nagpur.	Member
29.	Dr. Kishor M. Bhurchandi	Professor, Dept. of Electronics and Communication and Associate Dean (Trg & Plt), VNIT, Nagpur	Member
30.	Dr.K. D.Kulat	Professor of Electronics & Communication, VNIT, Nagpur	Member
31.	Dr. R. B. Deshmukh	Professor, Centre for VLSI and Nanotechnology, VNIT, Nagpur.	Member
32.	Dr. Animesh N. Chatterjee	Professor of Mechanical Engg., VNIT, Nagpur.	Member
33.	Dr. A. M. Kuthe	Professor of Mechanical Engg., VNIT, Nagpur.	Member
34.	Dr. V. R. Kalamkar	Professor of Mechanical Engg., VNIT, Nagpur.	Member
35.	Dr. P. P.Chakarvarthy	Professor, Dept of Maths, VNIT, Nagpur.	Member
36.	Dr. Y. M. Deshpande	Professor, Dept. of Humanities, VNIT, Nagpur.	Member
37.	Dr. M. K. Khedkar	Professor of Electrical Engg., VNIT, Nagpur.	Member
38.	Dr. B. S. Umre	Professor, Dept. of Electrical Engg., VNIT, Nagpur.	Member
39.	Dr. Dilip R. Peshwe	Professor, Dept. of Metallurgical & Materials Engg., VNIT, Nagpur	Member
40.	Dr. V. S. Adane	Professor, Dept. of Architecture & Planning, VNIT, Nagpur	Member
41.	Dr. Rajashree S. Kotharkar	Professor of Arch. & Planning, VNIT, Nagpur.	Member
42.	Dr. R. S. Gedam	Professor of Physics Dept., VNIT, Nagpur	Member
43.	Dr. B. R. Sankapal	Professor of Physics Dept., VNIT, Nagpur	Member
44.	Dr. N. R.Thote	Professor of Mining Engg. and Assoc. Dean (III and Alumni Activities), VNIT, Nagpur.	Member
45.	Dr. S. V. Bakre	Associate Dean (Civil Works), VNIT, Nagpur. Invited Members & Inv	
46.	Dr. Nita Patne	Assoc. Prof. of Electrical Engg. and Associate Dean (Electrical Works), VNIT, Nagpur.	Invited Member





47.	Dr. M. R. Ramteke	Assoc. Prof., Elect. Engg. and Associate Invited Dean (Procurement and Stores), VNIT,	
		Nagpur	
48.	Dr. J. G. Suryawanshi	Assoc. Prof. of Mech. and Associate Dean (Exams),	Invited Member
49.	Dr. K. L. Wasewar	Assoc. Prof. of Chemical Engg., Associate Dean (Educ. Tech. & Library), VNIT, Nagpur.	Invited Member
50.	Dr. R. B. Keskar	Assoc. Professor, Comp. Sci. & Engg. and Associate Dean (Information Technology: MIS Network & Website)	Invited Member
51.	Dr. (Smt.) Rashmi Uddanwadikar	Assoc. Prof., Mechanical Engg. and Associate Dean (Public Relations), VNIT, Nagpur	Invited Member
52.	Dr. Ratnesh Kumar	Assoc. Prof. of Applied Mechanics & Assoc. Dean (Hostel Affairs), VNIT, Nagpur	Invited Member
53.	Dr. A. S. Chaurasia	Assoc. Prof. of Chemical Engg. & Assoc. Dean (Students Activities and Sports), VNIT, Nagpur	Invited Member
54.	Dr. Shital Chiddarwar	Associate Professor, Mechanical Engg. Deptt. and Associate Dean (International Affairs & Ranking)	Invited Member
55.	Dr. Shailesh R. Sathe	Registrar, VNIT, Nagpur.	Secretary

Shri Nikhil Chingalwar, Dy. Registrar (Acd & Exam) attended the meeting as a special invitee.

Dr. H.T. Thorat has superannuated on 30th November, 2021 and Director, VNIT Nagpur mentioned that he was an active member of the Senate.

Prof.(Ms.) Varsha Banerjee, Professor, Physics Dept., IIT New Delhi, University, Nagpur, Prof. Vinayak Deshpande, HOD, Dept. of Business Management, Nagpur University, Nagpur, Dr. Rajendra M. Patrikar, Head, Centre for VLSI and Nanotechnology, Dr. Aniruddha D. Ghare, Professor of Civil Engg. amd Dr. H. M. Suryawanswhi, Professor of Electrical Engg., have submitted leave of absence.

Dr. A. R. Tembhurkar, Professor of Civil Engg., Dr. M. V. Aware, Professor of Electrical Engg., Dr. Makarand Ballal, Professor of Electrical Engg., Dr. A. P. Patil, Professor, Dept. of Metallurgical & Materials Engg. And Dr. S. G. Sapate, Professor, Metallurgical & Materials Engg., could not attend the meeting.

The draft Minutes of the 63rd Senate Meeting are as follows:

S 63.01: To note and confirm the minutes of the 62nd meeting of the Senate held on 15th July 2021.

The minutes of the 62nd meeting of the Senate were circulated to all the members. (Annexure-63-I) No suggestions were received. The Senate is requested to confirm the minutes.

Resolution: The minutes of 62nd Senate meeting are confirmed.

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S 63.02: To note and confirm the Action Taken Report on resolutions of the 62nd meeting of the Senate.

S62.03: Item for Ratification.

Department of ECE had proposed a new elective ECP 430 Biomedical Signal Processing. It is meant for the 7th sem students of B Tech ECE and 1st Semester students of M Tech (Communication System Engineering) the proposal was approved by the Chairman Senate. (Annexure-63-II).

Senate is requested to ratify the decision.

Resolution: Ratified.

Action Taken Report: Implemented

S62.04: Item for information.

1. The 19th Convocation 2021 to be held on 15th September 2021.

2. Change of code for Sports courses: The two courses of sports section,

SAP101 HEALTH INFORMATION AND SPORTS PART-I (AU) SAP102 HEALTH INFORMATION AND SPORTS (AU)

Are compulsory audit courses for I year students. We award SS (Satisfactory) or ZZ (Not satisfactory) grade in these courses. Hence, to make the course codes consistent with the grading, the codes will be modified as SAA101 and SAA102 for the batches entering in 2021 onward.

Senate is requested to note.

Resolution: Noted.

Action Taken Report: Not applicable

S62.05: To approve the list of Students for the award of degree in the 19th Convocation scheduled on 15th September 2021.

The list of students eligible for the award of various degrees is given in Annexure - III.

Senate is requested to approve the same.

Resolution: Approved.

Further, the Chairman, Senate is authorized to approve additional names of UG, PG and Ph.D. students who will be acquiring the degree eligibility after 14/07/2021 & will be awarded degree during 19th Convocation scheduled on 15th September, 2021.

Action Taken Report: Implemented

S62.06: Report on suggestion by the committee regarding requirement of Ph.D. admission from Dean R&C. (Annexure - IV)

The concerned committee has suggested one time measure for PhD admission of SRF /JRF/ research staff of R&D projects sponsored to VNIT and for sponsored candidates.

Senate is requested to approve.

Resolution: Approved.

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S62.07: Modified Academic Calendar Winter 2021 for Higher Semester UG & PG (Online Mode) and Schedule for Practical's & Project Evaluation 2020-2021 (ODD Semester). (Annexure – V (a & b)

It is now quite clear that the next semester will also have to be conducted in online format. Hence, the academic calendar for winter 2021 is modified. There are online classes on Saturdays also and there will be only one mid-sem examination, same as earlier online semesters.

We will again have the same evaluation procedure as was specified for S/2021 vide note of Dean (ACD) dated 20/01/2021. (Annexure -V(c)).

The APPEC discussed & suggested a few minor corrections. The corrected proposal is placed before the senate for approval.

Resolution: Approved. The first semester M Tech and M Sc classes will commence from 2nd August 2021 and rest of the academic calendar will be the same as that of PG higher semesters. In case the pandemic situation changes, Chairman Senate is empowered to take appropriate decision about the academic calendar as and when necessary.

Action Taken Report: Calendar published on Institute Website and circulated among all faculty members

S62.08: Replacing the course Biomaterials in the M Tech scheme of EAMS with a new course Materials for Biomedical Application. (Annexure - VI)

The interdisciplinary M Tech program "Engineering Applied to Medical Sciences" was approved vide senate agenda item S61.10 and action taken thereof. Later, BoS MME proposed a separate DC course titled "Materials for Biomedical Application" in place of the earlier course titled "Biomaterials". The change has been accepted by the BoS MEC and the same has been forwarded by APPEC. The senate is requested to approve the change.

Resolution: Approved.

Action Taken Report: Implemented

S62.09: Nominations on APPEC.

The term of two nominated APPEC Members will get over on 31st August, 2021.

- 1. Dr. H. M. Suryawanshi, Professor, Electrical Dept.
- 2. Dr. J. D. Ekhe, Professor, Chemistry Dept.

The Senate is requested to nominate new members on APPEC for a period of two years.

Resolution: The Chairman-Senate is empowered by the senate to nominate two new members on the APPEC.

Action Taken Report: Implemented vide S63.03.b

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S62.10: Any other items with the permission of Chairman.

S62.10.01 Addendum to the list of candidates eligible for award of degrees.

A list of PG and PhD candidates eligible for award of degree was presented by the academic section. This list is an addendum to the list already submitted vide agenda item number S62.05.

Resolution: The senate approved the additional list as Annexure VII of the agenda.

Action Taken Report: Implemented

Resolution: The action taken report is confirmed.

S63.03: Items for information

- a. Dr. K. L. Wasewar, Associate Professor, Dept. of Chemical Engg. Has been nominated as faculty representative on the Board of Governors of VNIT.
- b. The following members have been nominated on APPEC
 - 1. Prof. M. K. Khedkar, Dept. of Electrical Engg.
 - 2. Prof. S. S. Umare, Dept. of Chemistry they have been nominated because the tenure of Prof. H. M. Suryawanshi and Prof. J. D. Ekhe ended.

Resolution: Noted

S63.04: Items for ratification

54th APPEC decision

- a) A few students of final year UG were found to have registered for excess credits in OC/HM category, in the summer 2021 exam. APPEC has approved these in its 54th meeting as special cases and also suggested measures for early detection and prevention of such cases.
- b) The M. Tech (IPS) students Priya Sinha (MT19IPS016 and R. R. S. Chaitanya (MT19IPS017) were granted semester drop on the basis of their application to carry out internship at industry. Later they claimed that they had not applied for semester drop. There were very detailed deliberations of this case. Finally, APPEC has recommended cancellation of semester drop order and restoration of their registration in its 54th meeting
- c) The APPEC has recommended continuation of registration of the following students for W-2021 session in its 54th meeting. 1) Nanekar Shivam Rajiv (BT18MEC154/22680)
 - 2) Chinmay Sunil Zope (BT17MME024/21579) 3) Anuj Sharma (BT15ECE009/19117)
 - 4) Totapalli Rahul Pavan (BT17ECE088/21276) and 5) Vipul Ravindra Sukhdeve (BT18EEE111/22874) 6) Masudhahmed Nazeerahmed Tamboli (BT17ECE046/21398) in its 55th meeting.

Resolution: Ratified.

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S63.05: To consider and approve constitution of inter disciplinary Board of studies.

The senate has recently approved an inter-disciplinary M. Tech course "Engineering Applied to Medical Sciences" with the BoS Mechanical Engineering as lead group and supported by BoS of ECE, MME, CSE and Chemical Engg.

In view of NEP 2020, it is anticipated that many inter-disciplinary courses will be floated in the future. Hence, it is necessary to constitute an inter-disciplinary board of studies to cater to this requirement. The detailed proposal is enclosed as (Annexure-63-II) the proposal has already been discussed in 54th APPEC meeting and suggestion made at that time have been incorporated.

Resolution: The Senate approved the constitution of inter disciplinary Board of Studies with the following modifications.

- 1) Normal tenure of all the members at serial no. 3, 4, 5 and 6 will be of 2 years.
- 2) There will be one professor or associate professor and one assistant professor from each group A, B, C and D as members.
- 3) There will be two external members of IDBoS. One will be from industry and one from academia.
- 4) Dean (ACD) and Dean (R&C) will not be ex-officio members of the IDBoS. A separate chairperson of IDBoS will be designated by Chairman Senate.

S63.06: To approve the academic calendar for W21 and S22 sessions of I Year UG (2021 Admission) students.

The proposed calendar is in (Annexure-63-III). The classes will be in online mode.

Resolution: The Senate approved the academic calendar for W21 and S22 session of I Year UG (2021 admission) students with a suggestion that the mid-sem exam should be conducted for five days for both the semesters. Further, Chairman, Senate is authorised to take the decision in this regard.

S63.07: To approve the academic calendar for S22 sessions of higher semester UG and PG students.

The proposed calendar is in (Annexure-63-IV). The classes will be in physical mode on campus

Resolution: For all the semesters being conducted in physical mode, the evaluation scheme will be as follows.

Mid-sem exam

: 30% weight

Teacher's assessment : 10 to 20 % weight

End-sem exam

: 50 to 60% weight

The duration of the mid-sem exam will be 1 ½ hours and that of end-sem exam will be 03 hours. This evaluation scheme is for the summer 2022 only. It has been introduced to harmonize the classes and exams of all the semesters being conducted.

All the online mode semesters will have the evaluation pattern as specified in the note from Dean (ACD) Dt. 20/01/2021.

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The Senate approved the academic calendar for S22 sessions of higher semester UG and PG students.

S63.08: To approve Slot wise Time table for simultaneous online and offline classes.

The online classes of first year UG students are proposed to start on 13th December 2021. The higher semester classes starting from 03rd January 2022 will be most likely in physical mode. In order to handle both the types of classes, slot wise time table is proposed as given in (Annexure-63-V).

Resolution: The Senate approved the slot wise Time Table for simultaneous online and offline classes.

S63.09: To consider increasing the number of semester drops that can be availed by UG / PG Students.

According to the section 4.5.g of the Academic Rule Book, "A UG student can withdraw for maximum two semesters during the course of completion of programme. A PG student can withdraw for maximum one semesters during the course of completion of program."

Recently, there were many cases of PG students needing two semester break that were approved by APPEC. In the view of these, the APPEC has proposed that a PG student may be permitted to drop maximum two semesters during the course of completion of program. It is still possible to complete the PG program within the stipulated maximum duration of 3 years for PG program.

On the same lines, even if a UG student is permitted to drop four semesters, it is possible to complete the UG program within the maximum 6 years limit for B.Tech. and 7 year limit for B. Arch. Hence, it is proposed that the maximum number of semester drop for UG student be four semesters.

The senate is requested to approve the proposal.

Resolution: The Senate approved the proposal regarding increasing maximum number of semester drops (withdrawals).

S63.10: To consider the amendment in the letter issued to the students about CGPA to marks conversion.

When our students apply for admissions or jobs at other organizations, some of them insist that VNIT should specify the formula for CGPA to marks conversion. VNIT currently issues a letter to the effect that there is no formula for CGPA to marks conversion and any agency who needs this is free to use their own formula. A deadlock situation is created and our students may suffer because of that. We have observed that many other IITs and NITs issue a similar letter. But to avoid such deadlock, they recommend the use of CGPA x 10 notionally for the conversion. Hence, it is recommended to make similar amendment to the letter we issue to the students. The draft of the proposed letter is in (Annexure -63-VI).

Resolution: The Senate approved the draft of proposed letter and advised to replace in Item No. 5 "if they so wish" by "if it is required".

S63.11: To approve introduction of new DE courses by the department of ECE.

The BoS of ECE has proposed the following new DE courses.

- 1. For M. Tech. (Communication System Engineering)
 - a. ECP 514:: Electromagnetic Interference and Compatibility
 - b. ECL 5XX :: Photonic Integrated Circuits and Communication Systems
 - c. ECE 5XX :: Photonic Integrated Circuits and Communication Systems
- 2. For B. Tech (Electronics and Communication Engineering)
 - a. ECL 4XX :: Machine Learning with Python

The proposal was discussed in 56th APPEC and approved with some minor corrections. The corrected proposal is as given in (Annxure-63-VII). The senate is requested to approve.

Resolution: The Senate approved the introduction of new DE courses by the department of ECE.

S63.12: To consider and approve revised schemes and syllabi of the courses offered by the Department of Civil Engineering.

The BoS Civil Engineering has proposed several changes in the schemes and syllabi of their courses. The summary of changes is given in the table below. Modified schemes and contents are in (Annexure -63-VIII).

Sr. No.	B. Tech	Changes Made	Reason
- 1	CEP 214 – Hydraulic Engineering	Syllabus Modified	- 4
2	CEL 312 – Transportation Engineering	Syllabus modified	
3	CEL 311 – Pavement Analysis and Design	Syllabus modified Shifted from 7 th to 8 th Semester	
4	CEP 315 – Fluid Mechanics	Syllabus modified	
5	CEL 4XX – Traffic Engineering	New Course added	New Elective course in B.Tech 7 th Semester
6	CEL 401 – Irrigation Engineering	Syllabus modified	
7	CEL 4XX – Highway Construction Evaluation and Maintenance	New Course added	New Elective Course in B.Tech 8 th Semester in place of PG level course CEL-546 pavement Evaluation Rehabilitation & Maintenance
8	CEL 423 – Introduction of Soil Dynamics	Removed from the scheme	More Advanced course for UG level
9	CEL 435 – Remote Sensing and Geographical Information System	Syllabus modified	





Sr. No.	M. Tech.	Changes Made	Reason
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1	CEL XXX – Lean Construction	New Course added	New Elective course in 2 nd Semester
Water	Resource Engineering		
1	CEL 419 – River Engineering	The course is removed from the scheme	Replaced by new course CEL 5XX – Fluvial Hydraulics
2	CEL 5XX – Fluvial Hydraulics	In place of CEL 419 – River Engineering the course is added	New Elective course in 2 nd semester
3	CEL 421 – Hydraulic Structures I	Name Changed to	CEL 5XX- Spillway Designs and River Training in 2 nd semester
4	CEL 517 – Hydraulic Structures II	Names changed to	CEL 5XX – Design of Hydraulic Structures Name in 1 st Semester
5	CEP 503 – Water Resources Engineering Lab	Syllabus Modified	
6	CEL 531 – Spatial Analysis for Resources Management	Syllabus modified	
Transp	portation Engineering		
1	CEL 536 – Traffic Control & Management	Converted from DE to DC	
2	CEL 543 – Geometric Design of Highways	Converted from DE to DC	
3	CEL 539 – Public Transportation System Planning	Converted from DC to DE	
4	CEL 535 – Transportation System Analysis CEL 555 – Transportation Network Analysis CEL 590 – Pavement Management Systems CEL 564 – Planning & Designing of Low Volume Roads CEL 567 – Land use and Regional Transport Planning ARL 507 – Planning Principles & Techniques ARL 519 – Metro & Regional Planning ARL 453 – Urban Economics ARL 510 – Infrastructure Planning ARL 516 – Sustainable Development CEL 581 – Design of Underground Structures AML 549 – Finite Element	Removed from the Scheme	Redundant and not being offered

The senate is requested to approve.

Resolution: The Senate approved the revised schemes and syllabi of the courses offered by the Department of Civil Engineering.

S63.13: Re-introduction of XX grade in grade card.

A proposal was submitted for Re-introduction of XX grade in the student grade card, to indicate semester withdrawal of the students. The proposal was discussed in the 54th APPEC. Modified proposal based on the inputs of APPEC is submitted. (Annexure -63-IX)

Resolution: The Senate approved the re-introduction of XX grade in grade card.

S63.14: Approval for conducting 100/300/600 hours duration courses offered by the V. R. Jamdar Siemens Centre of Excellence.

Following courses are proposed:

- 1. Advance Certificate course in Industry 4.0 Duration 600 hours.
- 2. PG Diploma in Digital Manufacturing Duration 300 hours.
- 3. Certification in CNC Machining and Programming Duration 100 hours.
- 4. Certification in IoT Duration 100 hours.

Training discipline:

- PLM (CAD, CAM, CAE & Digital Manufacturing), Automation & PLC, IoT
- Smart Factory, CNC, Robotics
 The detailed proposal is in (Annexure -63-X).

Resolution: The centre of excellence may conduct the courses as proposed and can issue certificates as per present practice which is followed for short term training programmes etc. However, institute policy regarding certification for such long duration courses needs to be formulated, by forming a committee. The chairman senate is empowered to constitute a committee for the same.

S63.15: Any other items with the permission of Chairman.

NIL

The meeting concluded with the vote of thanks to the chair.

Chairman-Senate

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