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MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY,
(Deemed University)
JAIPUR – 302 017 (Raj.)



AGENDA FOR THE SENATE MEETING

- MEETING NO.** : 3rd
- VENUE** : Design Centre, MNIT Jaipur
- DATE** : 24th April, 2004
- TIME** : 10.00 A.M.

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY
(Deemed University)

AGENDA FOR THE THIRD MEETING OF THE SENATE TO BE HELD ON
APRIL 24TH, 2004 AT 10.00 AM IN THE DESIGN CENTRE OF THE INSTITUTE

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Item No.	Particulars
1	CONFIRMATION OF MINUTES (a) Minutes of the 2 nd meeting of the Senate held on September 26 th , 2003. (b) Minutes of the emergent meeting of the Senate held on March 4 th , 2004
2	ACTION TAKEN REPORT To note the action taken on the decisions made in the 2 nd meeting of the Senat held on September 26 th , 2003.
3	ITEMS FOR CONSIDERATION 3.1 To consider the schemes & syllabi for B.Tech. programmes I to VII Semesters and B.Arch. I to X Semesters. 3.2 To consider the schemes & syllabi for M.Tech programmes I to IV Semesters. 3.3 To consider the schemes & syllabi for M.M.S. programmes III & IV Semesters. 3.4 To consider the schemes & syllabi for new M.Tech. programmes (a) Chemical Engg. of Chemical Engg. Dept. (b) Energy Engineering of Mechanical Engg. Dept. (c) VLSI Design of Electronics & Comm. Engg. Dept. (d) Computer Science & Engg. of Computer Engg. Dept. 3.5 (a) To consider the tenure of UG/PG Board. (b) To consider the clarification of programme advisor/faculty advisor for UG/PG courses respectively on yearly basis. (c) To consider the constitution of DGC & DRC for Ph.D. programme and DRC for M.Tech programme. 3.6 To consider the proposed format of degrees (B.Tech./B.Arch./ M.Tech./MMS) . 3.7 To consider the recommendations made by Dr. S. K. Jain Committee regarding M. Tech. Assistantship.

- 3.8 To consider the Introduction of merit scholarship for B.Tech. / B.Arch. I to V year @ Rs.500/- per month for 12 month to 20% of the actual strength of each class.
- 3.9 To consider merger of the departments of Civil Engineering and Structural Engineering on the lines of IITs and NITs.

4 **REPORTING ITEMS**

- 4.1 The academic calendar of 2003-2004 (Spring semester).
- 4.2 (a) To note the modification in the academic programme of B.Tech. Mechanical Engg. IV semester (currently implemented).
(b) To note the scheme & syllabi of IV semester Chemical Engg.
(c) To note the modification in the academic programme of VIII semester Chemical Engg
(d) To note the modification in the academic programme of II Sem. M.Tech. (WRE).
(e) To note the recommendation made by Dr. A. K. Bhargava regarding modification in curricular structure of M. Tech. programmes.
(f) To note the fee structure of Ph.D. programme for the session 2003-2004.
(g) To note the recommendation made by Dr. S. Sancheti Committee regarding conversion of marks into grade point system.
- 4.3 To note the Format of Grade Sheets.
- 4.4 To note two scholarships offered by LG Electronics Pvt. Ltd.

- 5 Any other item (s) with the permission of the Chair.

Item No. 1.0 To confirm the minutes of the 2nd meeting and the emergent meeting of the Senate held on 26th September 2003 and 4th March 2004 respectively. (Copy of both the minutes enclosed Refer Item no. 1 (a) & (b).

Item No. 2. To note the action taken on the decision made in II meeting of the Senate held on 26th September 2003 (Refer Item no. 2.0)

Item No. 3.1 To consider the Schemes and Syllabi for B.Tech. programmes I to VIII Semester and B.Arch. I to X Semesters. (Refer Item no. 3.1)

Explanatory Note: The Academic programme and syllabi have been prepared and approved by the respective Department Faculty Board and recommended by the UG Board.

Submitted for approval.

Item No. 3.2 To consider the schemes and syllabi for M. Tech. programmes I to IV Semester. (Refer Item no. 3.2)

Explanatory Note: The Academic programme and syllabi have been prepared and approved by the respective Department Faculty Board and recommended by the PG Board.

Submitted for approval.

Item No. 3.3 To consider the schemes and syllabi for MMS programmes III & IV Semester. (Refer Item no. 3.3)

Explanatory Note: The Academic programme and syllabi have been prepared and approved by the Department Faculty Board and recommended by the PG Board.

Submitted for approval.

Item No. 3.4 To consider the schemes & syllabi for new M.Tech. programmes.
(Refer Item no. 3.4)

- (a) **Chemical Engg. of Chemical Engg. Dept.**
- (b) **Energy Engineering of Mechanical Engg. Dept.**
- (c) **VLSI Design of Electronics & Comm. Engg. Dept.**
- (d) **Computer Science & Engg. of Computer Engg. Dept.**

Explanatory Note: All the above Academic programmes and syllabi have been proposed by the respective Department Faculty Board and recommended by the PG Board.

Submitted for consideration.

Item No. 3.5 (a) To consider the tenure of UG/PG Board

- (b) **To consider the clarification of programme advisor/faculty advisor for UG/PG courses respectively on yearly basis.**
- (c) **To consider the constitution of DGC & DRC for Ph.D. programme and DRC for M. Tech. programme. (Refer Item no. 3.5)**

Explanatory Note: (a) It is proposed that the tenure of UG/PG Board may be of two years for maintaining a proper continuity and stability of academic programme.

- (b) It is proposed by the UG/PG Board that the programme advisor/faculty advisor for UG/PG programme may be on yearly basis (i.e. one advisor per year per branch)
- (c) As per the recommendations of the PG Board the constitution of DGC & DRC for Ph.D. programme and DRC for M. Tech. programme may be consider for approval (minutes of the 1st PG Board meeting enclosed).

Submitted for approval.

Item No. 3.6 To consider the proposed formats of degrees (B.Tech./B.Arch./M.Tech./MMS).

Explanatory Note: The proposed formats of degrees (B.Tech./B.Arch./M.Tech./MMS) as per IIT pattern. Refer Item no. 3.6

Item No. 3.7 To consider the recommendations made by Dr. S. K. Jain Committee-regarding M. Tech. Assistantship. (Refer Item no. 3.7)

Explanatory Note: The minutes of Dr. S. K. Jain Committee meeting submitted for kind consideration.

Item No. 3.8 To consider the introduction of merit scholarship for B.Tech./B. Arch. I to V year @ Rs. 500/- per month for 12 month to 20% of the actual strength of each class be sanctioned.

From the old documents, it is apparent that there were some merit scholarships @ Rs.2100/- P.A. However, no such scholarships have been amended for the last several years. These appears to be no record as to when and why these scholarships were discontinued.

It is now proposed to introduce merit scholarship in all U.G. Course to generate incentive & healthy competition among the students. The amount of such scholarships may be Rs.500/- P.M. for 12 months to 20% of the actual strength of each class.

Submitted for consideration.

Item No.3.9 To consider merger of the departments of Civil Engineering and Structural Engineering on the lines of IITs and NITs.

Currently the department of Civil Engineering and Structural Engineering are two separate departments in our Institute. The Geotechnical Engineering is also part of Structural Engineering. The faculty of Structural Engineering is mainly engaged to teach the Civil Engineering students besides having M.Tech. Course in Structural Engineering. In all IITs, NITs and major Universities abroad (e.g. M.I.T., Cornell, Berkeley etc.) the structural engineering is integral part of Civil Engineering. For more meaningful interaction in teaching, research, consultancy and smoother administration, it is essential that the two departments should be merged. This will improve the overall efficiency of the system.

Submitted for consideration.

Item No. 4 REPORTING ITEMS

Item No. 4.1 The academic calendar of 2003-2004 (Spring semester) (Refer Item no.4.1)

Item No. 4.2 (a) To note the correction made in ME-208, Machine Drawing IV Semester B. Tech. Mechanical Engineering (Refer Item no.4.2(a))

(b) To note the modified scheme of IV semester B. Tech. Chemical Engg. CH-208, Process Plant Utilities has been deleted from the previous approved scheme (Refer Item no.4.2(b))

(c) To note the revised scheme of VIII semester Chemical Engg. with following modifications: (Refer Item no.4.2(c))

(i) To remove Rubber Science & Technology (8CH4) from the core list and include it in the list of subjects under Elective VI.

(ii) To make a some change in the syllabus of the subject Process Analysis, Modeling & Simulation (8CH2) and hence to change the name of the subject to Process Analysis & Simulation (8CH2)

(iii) To drop the Computer Aided Design for sessional and make it inherent part of the project work.

(iv) To increase the weightage of Project from 200 to 250 marks.

(v) To reduce the weightage of Process Engineering & Plant Design sessional from 75 to 50 marks.

(d) To note the modification in the academic programme of II Semester M. Tech. (WRE)

In the scheme of II Semester the subject Watershed and Wetland Hydrology is listed as a main subject in place of Water Resources Development & Management which has now been kept in the list of major elective.

(e) To note the recommendation made by Dr. A. K. Bhargava regarding modification in curricular structure of M. Tech. programmes. (Refer Item no.4.2(e))

(f) To note the fee structure of Ph.D. programme for the session 2003-2004

Rs. 20,000 + hostel etc. for full time students.

Rs. 16,000 for part time students.

Rs. 4,000 for faculty students.

(g) To note the recommendation made by Dr. S. Sancheti Committee regarding conversion of marks into grade point system. (Refer Item no.4.2(g))

Item No. 4.3 To note the Format of Grade Sheets for B.Tech./M.Tech./Ph.D. students. (Refer Item no.4.3)

Item No. 4.4 To note the scholarship offered by LG Electronics India Ltd.

Explanatory Note: LG Electronics India Ltd. offered two scholarships one each to best final year student of Mechanical Engg. and best final year student of Electrical Engg. The scholarship consists of Rs. 2000/- per month for one year and gold medal worth Rs. 5000/-. It will be awarded by giving equal weightage to academic & extra curricular activities. This year it has been awarded to Shri Ankur Jain, Mechanical Engineering and Shri Anil Kumar Jhaharia, Electrical Engineering.

Item No. 5. Any other item (s) with the permission of the Chair.

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR
(Deemed University)

Dated: 29-09-2003

MINUTES OF THE SECOND MEETING OF THE
SENATE HELD ON SEPTEMBER 26TH 2003

The second meeting of the MNIT Senate was held on 26th September 2003 at 2.30 PM in the Department of Management Studies Conference Hall of MNIT, Jaipur. The following were present:

1.	Prof. Ashok K. Jain, Director	Chairman
2.	Dr. C. P. Srivastava	Member
3.	Dr. S.R. Dharkar	Member
4.	P. K. Saxena, Dean, Faculty Affairs	Member
5.	Prof. M. Raisinghani, Dean, Administration	Member
6.	Prof. A. B. Gupta, Dean, R&D	Member
7.	Dr. S. K. Jain, Dean, Student Affairs	Member
8.	Dr. A. K. Bhargava, Dean, Academic Affairs	Member
9.	Prof. C. M. Arora	Member
10.	Prof. Y. C. Bhatt, Professor & Head	Member
11.	Prof. C. L. Koul	Member
12.	Prof. G. Agarwal, Professor & Head	Member
13.	Prof. Alok Ranjan	Member
14.	Prof. Y. P. Mathur	Member
15.	Prof. Mool Singh	Member
16.	Prof. S. Sancheti	Member
17.	Prof. S. G. Modani, Professor & Head	Member
18.	Prof. M. P. Poonia	Member
19.	Prof. B. L. Swami, Professor & Head	Member
20.	Prof. Rajeev Shringi, Professor & Head	Member
21.	Prof. S.C. Pathak	Member
22.	Prof. R.A. Gupta	Member
23.	Dr. Ravindra Nagar, Head	Member
24.	Dr. K. D. Gupta, Head	Member
25.	Dr. M. C. Govil, Head	Member
26.	Dr. S. P. Chaurasia, Head	Member
27.	Dr. Nilama Gupta, Head	Member
28.	Mrs. Nanny Tripathi, Head	Member
29.	Sh. D. K. Sharma, Head	Member
30.	Sh. S. K. Pokharna, Registrar	Secretary

At the very outset Prof. Ashok Kumar Jain, Director and Chairman welcomed all the members of the Senate. Before starting the regular Agenda, the Chairman conveyed his appreciation to all the faculty members for preparing the Academic programmes and syllabi within a very short period. The agenda items were then taken up for discussion and decision taken.

- (c) It was pointed out that in almost each department a subject is offered to its own students as well as an Institute elective for other students. The syllabi is almost identical but two different subject codes were assigned leading to confusion.

Resolved that all such courses be referred as: CE-253 IE-202 fluid mechanics and the syllabi be listed only once.

- (d) In the curricular structure of Computer Engineering & Information Technology for III semester, the following modification were made

- (i) Institute Elective-II is replaced by Electronic Devices and Circuits as follows:

Electronics Devices & Circuits	DC	4	3	1	0
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- (ii) In IV semester the Institute Elective- III is replaced by Institute Elective- II.

3.4 To consider the curricula and syllabi of M. Tech. (Energy Engg.) of Mechanical Engg. Dept. and "Microelectronics" of Electronics & Communication Engg. Dept.

The Senate appreciated the above two proposals and resolved as follows:

- (i) The curricular and syllabi of Microelectronics were approved.
(ii) Regarding the curricular structure and syllabi of Energy Engineering it was desired that these be modified in view of a M. Tech. course on Environmental Engineering offered by the Civil Engineering Department so as to utilize the synergy of the two departments. The syllabi and code of ME-501 Energy Engineering needs revision.

Resolved that the revised scheme be placed before the next meeting of the Senate.

The Chairman clarified that both the above courses will be floated only after getting clearance from the MHRD.

3.5 To consider the Supreme Court's direction to include the curriculum environmental studies in the I B.Tech. curriculum.

The Senate approved the course of Environmental Studies in B. Tech. 1 year from 2004-2005 session. Further resolved that MHRD be requested to sanction faculty in order to teach this subject.

Requirements with respect to degree/disciplines for admission to Ph.D. programme (subject to R2)

1. **Architecture & Planning**
 - i. B.Arch. or equivalent degree in Architecture
 - ii. Master's degree in Architecture/Design/Planning or its equivalent viz. P.G. Diploma in Planning awarded by CEPT/SPA or Diploma in TCP awarded by ITP (India).
2. **Civil/Structural Engineering**
 - i. B.Tech./M.Tech. or equivalent degree in Civil Engineering
 - ii. B.Tech./M.Tech. degree in any branch of Engineering may be considered for research areas consistent with the academic background and special interests.
 - iii. M.Sc. Degree in Environmental Science/Biotechnology may also be considered for research areas in Environmental Engineering.
3. **Chemical Engineering**
 - i. B.Tech./M.Tech. or equivalent degree in Chemical Engineering.
 - ii. B.Tech./M.Tech. or equivalent degree in any branch of Engineering/Chemical Technology and interdisciplinary areas.
 - iii. M.Sc. in disciplines consistent with the research areas of the department.
4. **Chemistry**
 - i. M.Sc. or equivalent degree in Chemistry/Physics.
 - ii. M.Sc. in Bio-technology or M.Sc. in Biochemistry
5. **Computer Engineering/Information Technology**
 - i. M.E./M.Tech. in Solid State Electronics/ Microwaves/ Communication Systems/ Control Systems/ Instrumentation/ Computer Science & Engg./ Information Technology or equivalent.
 - ii. B.E./B.Tech. in Electronics & Communication/ Computer Sc. & Engg./ Electrical Engg./ Information Technology or equivalent.
 - iii. M.Sc. in Physics/ Maths/ Instrumentation/ Electronics/MCA in disciplines consistence with the research area of the department.
(The PhD degree awarded to a candidate with MCA will be in Computer Science.)
6. **Electrical Engineering**
 - i. B.Tech./M.Tech. or equivalent degree in Electrical Engineering.
 - ii. B.Tech./M.Tech. or equivalent degree in a branch of Engineering consistent with the research areas as mentioned by the Department from time to time.
 - iii. M.Sc. in a discipline consistent with the research areas as mentioned by the Department from time to time.

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR
(DEEMED UNIVERSITY)

MINUTES OF THE EMERGENT MEETING OF THE SENATE HELD ON 4TH
MARCH, 2004 AT 4.00 P.M.

An emergent meeting of the MNIT Senate was held on Thursday the 4th March, 2004 at 4.00 P.M. in the Design Centre of the Institute. The following were present:

1.	Prof. Ashok K. Jain, Director	Chairman
2.	Prof. N.C.Bhandari	Member
3.	Prof. M.Raisinghani, Dean. Administration	Member
4.	Prof. Y.C.Bhatt, Dean, R& D	Member
5.	Prof. S. Sancheti, Dean. Academic Affairs	Member
6.	Dr. S.K. Jain, Dean. Students Affairs	Member
7.	Prof. C.L.Koul	Member
8.	Prof. G.Agarwal, Prof. and Head	Member
9.	Prof. Alok Ranjan	Member
10.	Prof. Alok Gupta	Member
11.	Prof. Mool Singh	Member
12.	Prof. C.M.Arora, Prof. and Head	Member
13.	Prof. S.G.Modani, Prof. and Head	Member
14.	Dr. Ravindra Nagar, Head	Member
15.	Dr. S.K.Sharma, Head	Member
16.	Dr. S.P.Chaurasia, Head	Member
17.	Dr. (Mrs.) Vijay Laxmi, Head	Member
18.	Dr. Nilama Gupta, Head	Member
19.	Dr. (Mrs.) Jyoti Joshi, Head	Member
20.	Dr. V.S.Shekhawat, Head	Member
21.	Shri D.K.Sharma, Head	Member
22.	Shri S.K.Pokharna	Secretary

The following members expressed their inability to attend the meeting:-

1. Dr. C.P. Srivastava
2. Shri Pratap Narayan

Item No: 2 To note the action taken on the decision made in 2nd meeting of the Senate of Malaviya National Institute of Technology Society, Jaipur held on 26th September 2003.

S.No.	Item No.	Particulars	Decision	Action Taken
1.	3.1	To consider the observation made by the Chairman, Board of Governors with reference to minutes of the 1 st meeting of the Senate.	<p>(a) The Senate considered the observations made by the Chairman, BOG as well as the report of Dr. M. Raisinghani Committee.</p> <p>(b) The Senate approved the Ph.D. regulations with the following modification.</p> <p>(c) The degree "Doctor of Philosophy" should include both the title of the thesis and the name of the faculty in which the candidate was registered.</p> <p>(d) The report of Dr. M. Raisinghani Committee was also approved with minor changes in Appendix 1 of Ph.D. regulations.</p>	All the modifications have been incorporated in the Ordinances and Regulation of Ph.D. Programme
2.	3.2	To consider the Academic programmes and syllabi of PG II Semester.	Item No. 3.2 was approved by the Senate	The syllabi have been implemented

3.

3.3

To consider the Academic programmes and syllabi of UG II & IV Semesters

The Senate approved the item with the following modifications

- (a) It was noticed by the Chairman that in the scheme of examination for the I B.Arch. & II B.Arch. and some other disciplines the contact hours are quite high. The Heads of Departments (specifically Architecture, Chemical, Electronics & Communication & Mechanical Engg.) were requested to reduce the contact hours and also the number of subjects per semester and revise the Academic programmes accordingly and bring in the next meeting of the Senate.
- (b) Under the list of Institute Elective on page 13, their syllabi were not made available. The syllabi of all these subjects will be placed in the next meeting of the Senate
- (c) It was pointed out that in almost each department a subject is offered to its own students. The syllabus is almost identical but two different subject codes were assigned leading to confusion. Resolved that all such courses be referred as: CE-253 IE-203 Fluid Mechanics and the syllabus be listed only once.
- (d) In the curricular structure of Computer Engineering & Information Technology for III semester, the following modifications were made
 - (i) Institute Elective-II is replaced by Electronics Devices and Circuits as follows

Electronics Devices & Circuits	DC	4	3	1	0
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- (ii) In IV semester the Institute Elective-III is replaced by Institute Elective-II

The required modifications have been incorporated in schemes. Fresh schemes are submitted for approval.

The syllabus of Institute Elective is enclosed (reference Items No. 3.1).

The decision is implemented.

The required modifications have been incorporated.

The required modifications have been incorporated

4	3.4	<p>To consider the curricula and syllabi of M. Tech. (Energy Engg.) of Mechanical Engg. Dept. and "Microelectronics" of Electronics & Communication Engg. Dept.</p>	<p>The Senate appreciated the above two proposals and resolved as follows:</p> <p>(i) The curricular and syllabi of Microelectronics were approved.</p> <p>(ii) Regarding the curricular structure and syllabi of Energy Engineering it was desired that these be modified in view of a M. Tech. course on Environmental Engineering offered by the Civil Engineering Department so as to utilize the synergy of the two departments. The syllabi and code of ME-501 Energy Engineering needs revision.</p> <p>Resolve that the revised scheme be placed before the next meeting of the Senate.</p> <p>The Chairman clarified that both the above courses will be floated only after getting clearance from the MHRD</p>	<p>New revised schemes are being submitted for approval (Agenda item No3.4 & 3.2 respectively)</p>
5	3.5	<p>To consider the Supreme Court's direction to include the curriculum environmental studies in the I B.Tech curriculum.</p>	<p>The Senate approved the course of Environmental Studies in B. Tech. I year from 2004-2005 session. Further resolved that MHRD be requested to sanction faculty in order to teach this subject.</p>	<p>Not applicable to MNIT</p>