

Proceedings of the 4th meeting of the Senate held on Wednesday, the 19th August, 2015 at 11.45 a.m. on Wednesday, the 26th August, 2015 at 3.30 p.m. and on the Saturday, the 29th August, 2015 at 11 a.m. in the Alumni Seminar Hall.

The following members were present on the 19th August, 2015:-

Prof. Ajoy Kumar Ray, Director, IEST, Shibpur, & Chairperson, Senate
Prof. Sujoy Kumar Mukherjee, Department of A.E & A M
Prof. Koustuv Debnath, Department of AE & AM
Prof. Subhasis Bhoomik, Department of AE & AM
Prof. Santanu Majumder, Department of AE & A M
Prof. Aditya Bandyopadhyay, Department of Arch. T. & R.P.
Prof. Swati Saha, Dept. of Arch. T. & R.P.
Prof. Kalyan Kumar Chattopadhyay, Dept. of Civil Engg.
Prof. Subrata Chakraborty, Dept. of Civil Engg.
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Prof. Ambarish Ghosh, Dept. of Civil Engg.
Prof. Chaitali Ray, Dept. of Civil Engg.
Prof. Aparna (Dey) Ghosh, Dept. of Civil Engg.
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Prof. Bibhutosh Adhikary, Dept. of Chemistry
Prof. Anup Mondal, Dept. of Chemistry
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Prof. Biplab Kr. Sikdar, Dept. of C.S. & T
Prof. Sulata Mitra, Dept. of C. S. & T.
Prof. Gautam Bandyopadhyay, Dept. of Elec. Engg.
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Prof. Debasis Sarkar, Dept. of Elec. Engg.
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Prof. Mainak Sengupta, Dept. of Elec. Engg.
Prof. Monojit Mitra, Dept. of E & T.C.
Prof. Santanu Das, Dept. of E. & T. C.
Prof. Madhumati Dutta, Dept. of Humanities & Social Sc.
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Prof. Jagabandhu De, Dept. of Mathematics
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Prof. Guruprasad Samanata, Dept. of Mathematics
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Prof.Somnath Chakrabarti, Dept. of Mech.Engg.
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Prof. Mousumi Basu, Dept. of Physics
Prof. Arindam Biswas, Associate Professor & Head, Dept. of Information Technology, Spl. Invitee
Prof.Tapas Kumar Gangopadhyay, Associate Professor & Head, Dept. of Earth Sciences
Prof. Mallika Ghosh Sarbadhikary, Associate Professor & Head, Dept.of Humanities & Social Science
Prof.Samar Jana, Associate Professor & Head, Dept. of Physics
Dr. Biman Bandyopadhyay, Registrar, IEST, Shibpur & Secretary, Senate

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Prof.Suranjan Sinha, Dept. of Mining Engg.
Prof. Nil Ratan Bandyopadhyay, School of Material Sciences and Engineering

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At the outset, the Chairman extended a hearty welcome to the members of the Senate. He then placed the agenda before the members to proceed with the agenda one by one. The meeting was adjourned twice, first on 16.08.2015 at 3.30 p.m. re-scheduled on 26.08.2015 at 3.30 p.m. and 2nd on 26.08.2015 at 7.30 p.m. re-scheduled on 29.08.2015.

Item No.04.01 Confirmation of the proceedings of the 3rd meeting of the Senate held on 25/03/2015.

Resolution No. 04.01.01

The senate discussed the suggestions of some members and confirmed the proceedings of the 3rd meeting of the Senate held on 25.03.2015 with following modification:

In page 6, line 2, "... regarding exist route", will be replaced by "... regarding exit route". is confirmed.

Resolution No. 04.01.02

Matter Arising out of the proceedings of the 3rd meeting

During discussion on the proceedings of the meeting following decisions were taken by the Senate based on suggestions made by the Chairman.

Every month a senate meeting will be held preferably on the 2nd Wednesday of the month.

Enrolment for PhD can be continued for the eligible students who are working in projects as Research Assistant / Project Assistant.

Item No.04.02 To note the final Academic Calendar (Odd Semester 2015-16) of the Institute.

Resolution No. 04.02.01

The Senate noted the final Academic Calendar (Odd Semester 2015-16) with the following changes:

- 20th December 2015 being the Sunday the date of submission of marks (last date for showing the evaluated answer scripts) will be 21st December, 2015.
- A minimum of 8 weeks of vacation may be provided to the students as summer internship from many organizations/institutions demand the same.

The senate resolved that

Resolution No. 04.02.01

The last date will be corrected and minimum of 8 weeks of summer vacation will be declared from the next session.

Item No.04.03 To consider the interim report of the Dean(Academic Affairs), Chairman of the committee for finalization of the Course Structure for 5 year Dual Degree (B.Tech-M.Tech) programme constituted vide resolution on agenda item No.03.03 of the 1st meeting of the Senate confirmed on 25.03.2015.

The Dean Academic Affairs placed the interim report in brief. He opined that before finalization of the report one or two meetings of the Course Structure Committee would be required to resolve all anomalies. DACs should send their opinion to the committee at an early date on the proposed course structure for 5 year Dual Degree (B.Tech-M.Tech) programme. The Committee

will finalize the report and submit the final report to the next Senate. He also reported that basic courses for the 1st, 2nd and 3rd semesters have already been finalized and classes are already being conducted on that basis. The Dean Academic Affairs also requested HoDs of every Department to send the detailed syllabus to the Dean Academic Affairs.

During the discussion the Director informed the Senate members that the Chairperson of the BOG in its 2nd meeting held on 16.07.2015 opined that institute should continue with the dual degree program without any exit route for at least 2 years and then institute will review and decide on whether any exit route is required in this program. Many Senate members opined in favour of an exit route and recommended that the Board of Governors may kindly reconsider the issue of incorporation of exit route. It was pointed out that the resolution of the meeting of the third Senate be placed before the Board for consideration. After a thread bare discussion on this issue the Senate resolved the following:

Resolution No.04.03.01

- i) The Departments/Schools/Centres should finalize at their level the course structure and syllabus at an early date so that the final draft may be placed before the next Senate meeting.
- ii) The issue of incorporation of exit route in the 5 year Dual Degree(B.Tech-M.Tech) programme may be placed before the next BOG
- iii) Course structure with an option for exit route may be formulated.
- iv) A separate committee be formed afresh with the HODs of the concerned departments, Deans and External experts for preparation of a new structure.

Item No.04.04 To consider the recommendation of the Dean(Academic Affairs), Chairman of the committee regarding finalization of the issue of granting institute fellowship to the Ph.D students constituted vide resolution on Misc.Agenda 8.2 of the 1st Meeting of the Senate confirmed on 25.03.2015.

The report of the committee formed in this regard is discussed. After detailed discussion the Senate resolved that

Resolution No. 04.04.01

- All scholars be given 16,000/- (gross) per month for the appropriate duration after verification of the records.
- In no case the fellowship will be extended beyond 4 years.
- For scholarships in the revised scale a screening committee with external experts will be formed by the Dean Academic Affairs in consultation with Director and the concerned Head of the Department/ School/Centre. Those who will be eligible to receive scholarship at MHRD rate will get enhanced scale on the recommendation of the committee.

Item No.04.05 To report admission and re-admission related activities and to take resolution on issues arising out of admission and course related activities at all levels (PhD, PG and UG/Dual Degree programs)

04.05.1 UG/DD

04.05.1.1 Brochure, Seat matrix, Admission through CSAB

04.05.1.2 Space and other constraint

04.05.1.3 Migration from 4 year to 5 year course (legality, re-admission, course fee, carry forward of marks)

04.05.1.4 Course Structure: Report & Feedback

04.05.1.5 Regulations: Report & Feedback

04.05.1.6 Syllabus: Report & Feedback

04.05.1.7 CNC students etc.: consideration.

04.05.2 **PG**

04.05.2.1 MTech/MSc through CCMT/CCMN

04.05.2.2 Filling up of vacancies arising out of CCMT admission

04.05.2.3 Late @ irregular payment of Scholarships and anomaly in the amount of scholarships.

5.2.4 MTech program for project fellows.

5.2.5 MBA Admission: report

5.2.6. To discuss the admission to M.Tech Course on 'Geoinformatics'

04.05.3 **PhD**

04.05.3.1 Scholars in the last cycle : Report

04.05.3.2 New Ph D admission

04.0 5.3.3 Visvesvaraya PhD Scheme

04.05.3.4 New Regulation

04.05.3.5 Research Methodology Course 2015: Report

Item no. 04.05.1.1 Brochure, Seat matrix, Admission through CSAB

The Dean Academic Affairs informed the members that the Brochures containing the seat matrix and information regarding the admission through JEE Main (conducted by CSAB) could be incorporated and made available in the website for information to all stake holders. The help and reporting centres could also be opened for admission through JEE Main. A total of 721 students were allotted seats at IEST, Shibpur. After completion of 3rd counseling 634 students had taken admission through JoSAA and 8 students from different quotas of the Central Government. It was also reported that this year the Institute was prepared to take 576 students and accordingly communicated the seat matrix to CSAB authority. However, later on as per the direction of MHRD the number was increased to 735 to accommodate all 27% OBC seats. IEST, Shibpur did not participate in the special round of filling up of vacant seats as it was already overloaded by 11% considering the base value of 576 students beyond which infrastructure was not ready. Finally out of 634 admitted students, 29 students opted out of the Institute.

Resolution No. 04.05.1.1.01

Proper and adequate drive need be taken to (i) improve the infrastructure; (ii) improve job prospects and (iii) introducing the exit option.

Item No. 04. 05.1.2 Space and other constraint

The matter related to space and other constraints due to increased student strength was taken up by the members. Dean (IPM) informed the Senate that this year institute has tried its best to

augment the capacities of class rooms with adequate infrastructure. To meet up huge demand of hostel accommodation part of Downing are being renovated for accommodation of about 90 students. Planning and execution of future requirement of class rooms, laboratories, hostels, auditorium etc. have been initiated with CPWD. State PWD has also been requested to complete the work of the construction of portion B of central wing of the 8 storied building and complete the construction work of one additional floor over the some existing hostels for additional academic space and additional hostel facilities for the student respectively. After a detailed discussion following resolution were taken:

Resolution No. 04.05.1.2.01

An all out effort involving all the stake holders need be taken to improve the logistics and infrastructure including filling of vacant faculty positions at an early date to meet the projected demand before the beginning of the next academic session (July 2016).

Item No.04. 05.01.3 Migration from 4 year to 5 year course (legality, re-admission, course fee, carry forward of marks)

Loss of year(s) due to failure in the examinations or some other reason lead to migration of some of students of 4 Yr UG course to 5 Yr Dual Degree course as the institute is primarily running the 5 yr. integrated dual degree course. This always happens in case of a change in the duration of the course or change over to a new system. During the transitory period the migration and associated problem need to be addressed to avoid legal issues on continuing the old course, old fees etc. After a detailed discussion on migration of the student from existing 4 year to 5 year integrated dual degree course, the Senate resolved the following:

Resolution No. 04.05.01.3.01

- That Institute will run 4 year programme in parallel, till such students exist.
- And also offer, the interested students, option for joining the 5 year integrated dual degree(B.Tech -M.Tech) from the 4 year undergraduate course.
- The enhanced tuition fees may be waived for all such students.

Item No. 04. 05.1.4 Course Structure: Report & Feedback

Resolution No. 04.05.1.4.01

See Resolution No.04.03.01

Item No. 04.5.1.5 Regulations: Report & Feedback

The new regulations need to be formulated for finalization and approval of the Senate. The primary draft of the regulation has already been mailed to the faculty members. However, feedback from the faculty members are not yet received. The draft regulation may be completed after receiving the feedback and will place it before the Senate. After a detailed discussion the Senate resolved that

Resolution No. 04.05.1.5.01

The Senate members will give their feedback to the Dean Academic Affairs at an early date and Dean and Associate Deans Academic Affairs will complete the draft and place the same in the next meeting of the Senate for consideration.

Item No. 04. 05.1.6 Syllabus: Report & Feedback

Resolution No.04. 05.01.6.01

It is reported that complete syllabus for the dual degree course is not yet available and the syllabus of Basic Electronics is not uniform for all students of different departments. It is resolved that

Resolution No. 04.05.1.6.01

- i) The syllabus of Basic Electronics framed by the Electronics Department for the student of all branches be submitted for consideration of the Senate.
- ii) HODs of every Department will send the Syllabus of all the courses for completion of the draft syllabus to be placed before the Senate for finalization of the same.

Item No.04. 05.1.7 CNC students etc. : consideration

The Dean Academic Affairs placed the list of CNC candidates for consideration of the Senate. After a detailed discussion the Senate resolved that

Resolution No. 04.05.1.7.01

The Institute will arrange a Special Supplementary Examination for these CNC students as a special case to give them a chance to clear the failed papers. If the CNC students able to pass the paper/papers then readmission of these students will be finalized by the Dean Academic Affairs.

The Dean Academic Affairs then placed the issue of one girl student, a citizen of Bangladesh, of Civil Engineering Department, who was 'reported against' twice for resorting to unfair means in the examination. As per resolution of the disciplinary committee all the theory papers of this student are considered null and void. The concerned student prayed to the Dean Academic Affairs and Director for consideration of the matter. The Dean Academic Affairs placed the same to the committee members for reconsideration. Many faculty members discussed the issue. Two distinct opinions have come up in the meeting. One was for punishment of 3 supplementary examinations and other was for 6 supplementary examinations as prescribed by the committee. The Senate finally resolved that

Resolution No. 04.05.1.7.02

Her guardian should be called and the Director in consultation with the Dean Academic Affairs will review the matter and take a final decision.

Item No.04.0 5.2.1 MTech/MSc through CCMT/CCMN

The Dean Academic Affairs reported that MTech admission through CCMT (a centralized system for admission to MTech courses in NITs and GFTs) by and large is successful. Out of total 327 seats 215 seats are filled up and 112 are lying vacant.

Thereafter, The Dean Academic Affairs reported that this year 50% MSc admission was done through CCMN (Science Counterpart of CCMT) and 50% through Institute own admission process. Combining the CCMN and institute own process the total number of vacant seat is 11 out of total allocation of 135 seats.

Item No. 04.05.2.2 Filling up of vacancies arising out of CCMT admission

It is reported that less number of seats (approx.18%) is filled through CCMT in comparison to the last year's figure. M. Tech course on geoinformatics, offered by the Department of Mining did not get a single student. This was because of the fact that the course offered by the Department was open to M.Sc and Non Gate candidates also, which was not considered by CCMT. After prolonged discussion on this even the senate members opined that

Resolution 04.05.2.2.01

Separate applications for M. Tech course on Geo-informatics may be invited from Non GATE students with MSc in Geography and allied disciplines to continue running this course.

Resolution 04.05.2.2.02

The Institute should admit students in M.Tech where 50% admission will be through CCMT and rest 50% through Institute Entrance Examination.

Item No. 04.05.2.3 Late & irregular payment of scholarships and anomaly in the amount of scholarships.

Resolution 04.05.2.3.01

The matter was discussed in the Senate and it was resolved that the matter will be settled by the Director in consultation with Dean Academic Affairs and Finance Officer (Acting).

Item No.04.0 5.2.4 M. Tech program for project fellows

Resolution 04.05.2.4.01

The issue of introduction to M.Tech programme for project fellows was discussed. This could be introduced by adding clause like "Such students will be allowed to take at most 3 theory papers at a time" to separate it out from the regular programme and to comply not to participate in two fulltime programmes at a time. A comprehensive solution to this problem is to introduce MS by research programme which are already available in many institutes. Rules and Regulations for such a programme were already framed by a three member Prof. P. P.Chatterjee, Prof. S. Chakraborty and Prof. M.Sengupta) committee formed under the then Faculty Council. After a detailed discussion Senate resolved that

Resolution 04.05.2.4.01

The senate in principle accepted the introduction of MS by Research programme. A Senate committee will be constituted under the Chairmanship of Dean Academic Affairs to relook and reassess of the viability of introducing the proposed M. S. by Research of 3 year duration.

Item No. 04.05.2.5 MBA Admission: report

It has been reported that the MBA course is not getting enough students. This year 22 students have taken admission against 60 available positions. The Director proposed that the Senate may consider introduction of an integrated dual degree programme offering B.Tech-MBA Form. Other Senators suggested MSc-MBA Programme. The Senate resolved that

Resolution No. 04.0.5.2.5.01

A comprehensive proposal may be placed for better utilization and viability of the MBA School as per the suggestions of the Director and other Senators.

Item No. 04.05.2.6. To discuss the admission to M.Tech Course on 'Geoinformatics'

Resolution. No. 04.0 5.2.6.01

See Resolution no. 04.05.2.2.01

Agenda Item No. 04.05.3.1 Scholars in the last cycle: Report

No scholarships were offered to the PhD scholars enrolled in the January cycle of 2015. It is reported that out of 134 such scholars about 50 have submitted application to avail PhD scholarships. The Senate resolved that

Resolution no. 04.05.3.1.01

Their cases will be considered and further screening would be done by expert committee to be formed for different departments (centres and schools) by the Director in consultation with the Dean Academic Affairs and HODs for final selection.

Item No. 04.05.3.2 New Ph D admission

Resolution no. 04.05.3.2.01

The matter was discussed in detail in the Senate and the Senate resolved that

- i) Enrolment for scholars who receive their scholarships from CSIR, DST or sponsored research projects will be considered. The number of institute scholarship will be planned before offering the enrolment in the new cycle.
- ii) Using the teacher/scholar ratio and related information the number of scholarships is to be formulated and placed in the senate for finalization.

Item No. 04.05.3.3 Visvesvaraya PhD Scheme

Resolution No. 04.05.3.3.01

The Senate noted that the institute has got a project from Department of Electronics and IT, GOI to support 15 scholars in different fields related to Electronic Design and Manufacturing (ESDM) and IT/IT enabled service (ITES). In view of limited number of Institute Scholarship more proposals may be submitted to utilize such opportunities.

Item No. 04.05.3.4 New Regulation

Resolution no. 04.05.3.4.01

See Resolution No. 04.1A.01

Item No. 04.05.3.5 Research Methodology Course 2015: Report

Resolution No. 04.05.3.6.01

The Senate noted that this year the course on Research Methodology was conducted during 7 to 9 August 2015 having total participants of 154.

Item No. 04.06 To note the final Convocation Manual of the institute recommended by the Senate in its 1st meeting and approved by the BOG in its 1st meeting.

Resolution No. 04.06.01

The Senate noted the Convocation Manual of the institute recommended by the Senate in its 1st meeting and approved by the BOG in its 1st meeting and resolved that the amendments of the Manual will be done time to time as per requirement and this will be placed before the BOG meeting for consideration.

Item No. 04.07 To consider the revised proposal for Interdisciplinary Centre for Science Technology and Culture under aegis of Department of Humanities & Social Science.

The Senate considered the proposal for setting up an interdisciplinary Centre studies in Science Technology and Culture (CeSSaC) under the aegis of the Department of Humanities & Social Science. Prof. M. Sarbadhikary, HOD, Department of Humanities & Social Science pointed out that the proposed centre was approved in principle in the Joint Faculty Council Meeting held on 26.12.2014 vide resolution no. 06.03.. After a detailed discussion the Senate resolved that

Resolution no. 04.07.01

In the present situation a programme as recommended in the proposal may be initiated in the Department of Humanities & Social Science for which necessary fund and support will be provided by the institute. The formal establishment of the centre will be discussed in the next Senate.

Item No. 04.08 To consider the note of the Dean (Academic Affairs) on Undergraduate/Post Graduate/Dual Degree Programme Evaluation and Review Committee.

Resolution no. 04.08.01

The Senate resolved that the members will go through the note circulated in this regard and this will be considered in the next senate meeting.

Item No. 04.09 To consider extension of approval by the Council of Architecture for 5-year full time Bachelor of Architecture Degree Course from 2015-2016 onwards.

The Senate considered the extension of approval of 5 year full time Bachelor of Architecture (B. Arch) degree Course for the period 2015-2016 and the observations of the Council of Architecture. It was observed that some of these recommendations of the COA may create some conflict with MHRD norms. Senators from the Dept. of Architecture, Town & Regional Planning pointed out the importance of compliance of the recommendations of the Council in view of getting the registration of the COA to our graduates as practicing Architects. After a detailed discussion the senate resolved that

Resolution.04.09.01

The Director will send the compliance report to the Council of Architecture for further extension of approval of the course. It was also resolved that the action to be taken by the institute as per the observations of the Council will be framed in consultation with the Dean Academic Affairs and Head, Architecture, Town & Regional Planning Department.

Item No. 04.10 To consider the starting of Industry Specific Post Graduate Program at IEST, Shibpur.

Resolution no. 04.10.01

The Senate considered the minutes of the meeting of the Committee constituted for this purpose regarding the proposal of offering industry specific post graduate programs initiated by the Industry Institute Partnership Cell (IIPC). The proposal was discussed in detail. The Director appreciated the proposal for such Industry Specific Post Graduate Program at IEST, Shibpur as per the need of the industries. He emphasized the necessity to collaborate with giant industries like Tata Steel, M. N. Dastur, BHEL and CESC. Technically, the nature of such programmes will be

“part time” and HOD, CE suggested that the similar programme discontinued from 2012 in the department of CE may be revived again for students specifically from the CE industries. Finally the Senate resolved that the

Resolution no.04.10.01

A committee will be constituted by the Director to look into all aspects of Industry-specific Post Graduate Programme. This committee will review the proposals already available, suggestions made by the existing committee, role of the corporate bodies etc. The committee will place its report to the Senate as soon as possible for implementation of such programme.

Item No .04.11: Misc. item, if any.

Item No 04.11.M1 To consider the course structure and syllabi for the 5 year Undergraduate Degree course in Architecture and two year Post Graduate Degree course in Master in Urban and Regional Planning (MURP) as proposed by the Departmental Academic Committee towards approval of the Senate.

The course structure and syllabi for the 5 year Undergraduate Degree course in Architecture and two year Post Graduate Degree course in Master in Urban and Regional Planning (MURP) as proposed by the Departmental Academic Committee of the Department of Architectural , Town and Regional Planning, Indian Institute of Engineering Science and Technology, Shibpur, was considered by the Senate .

The Senate also considered the proposed Regulations of the 5 year Undergraduate Degree course in Architecture and two year Post Graduate Degree course in Master in Urban and Regional Planning (MURP) that were prepared in line with the regulation currently in vogue in the institute, by the Departmental Academic Committee of the Department of Architecture, Town and Regional Planning, Indian Institute of Engineering Science and Technology, Shibpur.

Resolution no. 04.11.M1.01

The Senate accorded its approval to the course structure, syllabus and the regulations.

Item No 04.11.M2 To consider the proposal of theory subjects Open Channel Hydraulic 1 & 2 under control of Dept. of Civil Engineering instead of Dept. of Applied Mechanics & Aerospace Engineering

Resolution no. 04.11.M2.01

As per the proposal the Senate resolved that the theory subjects Open Channel Hydraulic 1 & 2 will be under the control of Dept. of Civil Engineering.

Item No 04.11.M3 To consider the proposal of introduction of integrated 5 year dual degree (B.Sc.-M.Sc) for Science Departments of IEST, Shibpur from the Academic session 2016-2017

Resolution no. 04.11.M3.01

The concerned departments may start formulating the proposal and place in the Senate for approval once the departments get adequate number of faculty members and other infrastructure.

Item No.04.1A To consider the regulations of Doctorate Degree of the Institute prepared by the erstwhile Deans of BESU, Shibpur and place in the Executive Council for approval

It has been noted by the Senate that the PhD regulations framed by the erstwhile Deans of BESU, Shibpur (of Engg. Science and Social Science) which was also placed before the Senate in its earlier meeting needed change to make it compatible with the introduction of Senate (instead of three different faculty councils). The senate decided that

Resolution no. 04.1A.01

The Dean and Associate Deans of Academic Affairs will make necessary amendments of the said regulations, circulate it to the members for feedback and place the revised draft before the Senate for approval.

Item No. 04.2A To consider the discontinuation of Elective subject offered in the 3rd Semester curriculum of M.Tech in Mechatronics.

It is reported that the 2 year M. Tech programme in Mechatronics has an elective subject in the 3rd semester. For all other M. Tech programme from other departments there is no theory paper in the 3rd subject. The School wishes to withdraw offering this elective.

Resolution no. 04.2A.01

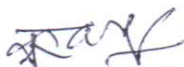
The senate approved the proposal of discontinuation of Elective subject offered in the 3rd Semester curriculum of M. Tech in Mechatronics effective from the 3rd semester classes starting from July 2015.

Since there was no other matter for discussion the meeting ended with vote of thanks to the Chair.



(Biman Bandyopadhyay)
Registrar & Secretary to the Senate

Approved



(Ajoy Kumar Ray)
Director and Chairman to the Senate

Circulated to all members of the Senate for their perusal and suggestion for amendment, if any. This proceeding along with amendments, if any, received from the members will be placed before the next meeting of the senate for confirmation.