

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

MINUTES OF THE EIGHTIETH MEETING OF THE BOARD OF GOVERNORS HELD ON 3rd MARCH 2015

The Eightieth Meeting of the Board of Governors of the Institute was held on 03/03/2015 in the Board Room of Power Grid Registered Office, New Delhi and the following members were present:

- | | |
|------------------------------|-----------------------|
| 1. Dr. R. P. Singh | Chairman |
| 2. Prof. Gautam Biswas | Director / Member |
| 3. Prof. Asis Dutta | Member |
| 4. Mr. Pydah Venkatanarayana | Member |
| 5. Prof. M.K.Chaudhuri | Member |
| 6. Prof. Rafikul Alam | Member |
| 7. Mr. U. C. Das | Registrar / Secretary |

Prof. D.B.Goel, Prof. Arun Chattopadhyay, Er Liansanga and Mr.H.K.Sharma, could not attend the meeting due to their prior engagements and they were granted leave of absence.

The agenda for the day was taken up as below:

Item No. 1

Chairman's welcome address and appraisal:

The Chairman welcomed all the members of the Board with special mention to Prof. Rafikul Alam who had been newly inducted as a member of the Board as nominee of

the Senate.

There was no appraisal.

With permission of the Chair, Director gave a presentation on “Desired Qualities of a Good Academic Ambience”. He wanted to highlight the problems associated with the indiscipline of the students. He suggested a few remedial actions in order to improve the hostel life so that IIT Guwahati can heighten student aspirations for high intellectual and professional achievements and simultaneously champion our students to maintain and uphold high ethical and moral standards. He suggested adopting partially (appropriately) the Residential College Model of the Cambridge University.

Resolution No. :R_80 BOG/01/2015

RESOLVED that the Chairman’s welcome address be noted.

RESOLVED further, that the presentation given by the Director be **APPRECIATED** and the concept of Residential College Model of the Cambridge University be **ADOPTED** partially (appropriately).

Item No. 2

Confirmation of the Minutes of the 79th Meeting of the Board of Governors of the Institute held on 19/12/2014:

The Minutes of the 79th Meeting of the Board of Governors of the Institute held on 19/12/2014 was circulated amongst the members of the Board for their comments / observations. No comment/observation was received from any of the members. However it was administratively reported that an opinion of the house appreciating the administration for being regular in payment of the statutory dues as reported in the Audit Report was not written in the Minute.

The Board was requested to consider the same and confirm the Minutes.

The Board agreed to confirm the Minute and resolved as below:

Resolution No.: R_80 BOG/02/2015:

RESOLVED that the Minutes of the 79th Meeting of the Board of Governors of the

Institute held on 19/12/2014 be **CONFIRMED** by including the proposed sentence as enclosed in **Annexure – 1** P(40-55).

Item No. 3

Follow up actions of the decision of the 79th Meeting of the Board of Governors of the Institute held on 19/12/2014:

The Minutes of the 79th Meeting of the Board of Governors of the Institute held on 19/12/2014 was circulated amongst the members of the Board for their comments / observations. Since no comment/observation was received from any of the members, follow up action was taken.

The follow up action taken report on the resolution of the said Board meeting including those pending from the previous meetings were placed before the Board for consideration and the Board was requested to accept.

The Board considered the same and resolved as below:

Resolution No.: R_80 BOG/03/2015:

RESOLVED that the actions taken on the decisions of the 79th Meeting of the Board of Governors held on 19/12/2014 including those pending from the previous meetings be **ACCEPTED** as reported.

Item No. 4

Minutes of the 32nd Meeting of the Finance Committee of the Institute held on 03/03/2015:

The Board was informed that the 32nd meeting of the Finance Committee of the Institute was held on 03/03/2015 preceding this 80th meeting of the Board held on the same day which was chaired by the Chairman of the Board. The Agenda items and the decision of the Finance Committee was conveyed to the members of the Board item wise by the Registrar, who is also the ex-officio Secretary of the Finance Committee.

The Board was requested to consider and approve the decisions of the Finance Committee.

The Board considered the same and resolved to approve the same as below:

Resolution No.: R_80 BOG/04/2015:

RESOLVED that the decision of the 32nd meeting of the Finance committee held on 03/03/2015 be **APPROVED** as per the Minutes of the meeting, a copy of which is separately enclosed as **Annexure – 2**.

The highlights of the Minutes of the 32nd Meeting of the Finance Committee are as follows:

- i) Review of the Expenditure under Plan and Non Plan Heads for the Financial Year 2014-15 (upto 31/01/2015).
- ii) Revision of the Estimates (Modified) for the financial year 2014-15 at an amount of Rs. 20096.00 lakhs under Plan head and an amount of Rs. 15560.00 under Non-Plan head.
- iii) Budget Estimates for the financial year 2015-16 at an amount of Rs. 37208.42 lakh under Plan head and an amount of Rs. 18400.00 lakh under Non Plan Head.
- iv) Decision on the Audit Para regarding contribution received from various organisations towards employees Retirement Benefits for the period of Deputation to be credited to the Capital Fund.
- v) Proposal for Development of Corpus Fund of the Institute.
- vi) Recommendation of the Committee for the Implementation of SCSP and TSP (Schedule Caste Sub Plan and Tribal Sub Plan) Programme in respect of Budget Estimation.
- vii) Revision of rates of Scholarship for PhD and ME/M.Tech/ MS/M.Des Students, funded by Centrally Funded Technical Institutions (CFTI) under Ministry of Human Resource Development.

Item No. 5

Nomination from Government of the North East States as a Zone to the Board of Governors of the Institute:

The Board was informed that in terms of Clause 11(c) of the Institute of Technology Act 1961, the Board of an Institute shall consist of “one person to be nominated by the Government of each of the States comprising the zone in which the Institute is situated, from among persons, who, in the opinion of that Government, are technologists or industrialist of repute”.

In term of the above, Er. Liansanga was nominated by the Govt. of Mizoram to the Board of IIT Guwahati for a period of three years with effect from the date of his nomination i.e. 04/07/2013. But Er. Liansanga had not attended any of the meetings of the BOG held so after his nomination. It was mentioned that from that date till now as many as five BOG meetings had been held. The Board was also informed that as per clause 2(13) of the Statute –“if a member of the Board fails to attend more than two of at least four meeting in a calendar year, he shall cease to be a member of the Board”.

The Board was therefore requested to consider the same and decide.

The Board discussed and resolved as below:

Resolution No.: R_80 BOG/05/2015:

RESOLVED that Er. Liansanga be communicated and he be conveyed about the statutory provision for continuance as member of the Board with a request to attend the next meeting without fail.

Item No. 6

Recommendation of the Committee for the Implementation of SCSP and TSP (Schedule Caste Sub Plan and Tribal Sub Plan) Programme in respect of Administrative set up and Budget estimation:

The Board was informed that in term of the mandate of the programme implementation Committee of SCSP and TSP (Schedule Caste Sub Plan and Tribal Sub Plan) of Govt. Of India, a five-member committee with Prof. S. Ravi, Professor,

Department of Physics as Chairman was constituted and the Committee submitted its report with its recommendation. Two of the recommendations are on the following subjects:

- a. Administrative set up
- b. Budget Estimate

The Board was requested to consider and approve.

The Board considered, discussed and resolved as below:

Resolution No.: R_80 BOG/06/2015:

RESOLVED that a cell under the title: "Equal Opportunity cum Special Reservation Cell (EO-cum-SRC)" be set up with a Sr. Faculty-in-Charge as Chairman and be manned by an Officer and three other staff.

RESOLVED further that an amount of Rs. 16,59,12,000/- as approved by the 32nd Meeting of the Finance Committee of the Institute held 03/03/2015 be **INCLUDED** in the Budget Estimate for the Financial Year 2015-16 for the Implementation of SCSP and TSP (Schedule Caste Sub Plan and Tribal Sub Plan) Programme.

Item No. 7

Approval of the 'Internal Audit Manual', that is, Accounting Manual of the Institute:

The Board was informed that in the 79th Board's meeting held on 19/12/2014; the Audit report (2013-14) of the Institute was discussed. During discussion the Chairman proposed that an Accounting Manual for the Internal Audit of the Institute should be framed. Accordingly, an 'Internal Audit Manual' is prepared in the Institute taking reference from Accounting Manual from IIT Bombay and that of Ministry of Home Affairs available in their respective websites. Further IITG Statute, FR&SR, the official circulars, office orders, notices etc issued so far from time to time relating to Internal Audit and accounting were also taken into consideration.

The Board was requested to consider the same and approve.

The Board discussed and appreciated the work. The Board advised that another

volume on accountability and performance with Academic & Administrative Audit, Internal & External Peer Review etc should be framed. The Board also advised that 'Internal Audit Manual' should be circulated amongst all concerned and BOG members. With these the Board resolved as below:

Resolution No.: R_80 BOG/07/2015:

RESOLVED that the '**Internal Audit Manual**' for the Internal Audit of the Institute be **APPROVED** which is separately enclosed as **Annexure – 3** with provision of reviewing the same after every two years.

RESOLVED further that more chapters like pay fixations, work maintenance/service contract procedures and checklist, establishment matters, disciplinary proceedings, mobility of service/technical resignations, PDA rules, medical rules etc be added to the 'Internal Audit Manual' from time to time with approval of the Board.

Item No. 8

Scheme for Career Progression / Financial Upgradation of Registry Officers:

The Board was apprised that based on the request of MHRD, UGC constituted a Joint Cadre Review Committee (JCRC) to recommend uniform staffing pattern, service conditions etc. of non-teaching staff including Group-A Officers of Central Universities, UGC maintained Deemed to be Universities and the Colleges affiliated to Delhi University. In this regard, MHRD has conveyed its decision vide letter no. F. No.19 – 26 / 2008-Desk (U), dated 07.05.2014 on the following aspects.

- (i) As per MHRD letter No.1-32/2006-U.II/U.I (ii), dated 31.12.2008, Deputy Registrar (DR) in the PB-3 (Rs.15600-39100) with GP of Rs. 7600/-, on completion of 5 years is eligible to move to PB-4 (Rs. 37400-67000) with GP of Rs.8700/-. Further, MHRD has also approved the proposal to re-designate such Deputy Registrar (DR) as Joint Registrar (JR), with the stipulation that the post will revert as DR when it falls vacant.
- (ii) The requirement of 8 years' service in respect of Assistant Registrars (AR) who are placed in PB-3 (Rs.15600-39100) with GP of Rs.6600/- was reduced to 5 years' service for promotion to Deputy Registrar.

The Board was informed that based on the above, IIT Delhi in its 187th Meeting of the BoG resolved vide Resolution No.BG/19/2014 dated 06/06/2014 that the provision applicable to direct recruit Deputy Registrars in PB-3 (GP of Rs. 7600/-) for financial upgradation to PB-4 (GP of Rs. 8700/-) in five years may be extended to those Assistant Registrars who acquire this scale PB-3 (GP of Rs.7600/-) by way of financial upgradation as provided in the scheme of revision of pay scales as notified by MHRD, Govt. of India vide letter No. 1-32/2006-U.II/U.I (ii), dated 31.12.2008 (a copy enclosed as **Annexure – 4** P(56-61).

In consideration of the very limited scope for career /financial upgradation for Registry Cadre officers joining as Assistant Registrar, the Board was requested to consider the above for adoption at the Institute.

The Board considered, discussed and resolved as below:

Resolution No.: R_80 BOG/08/2015:

RESOLVED that in respect of Assistant Registrars who are placed in PB-3 (Rs.15600-39100) with GP of Rs.6600/-, the required length of service be **REDUCED** to 5 years' for promotion to Deputy Registrar with PB-3 (Rs.15600-39100) and GP of Rs.7600/-

RESOLVED further that the provision applicable to directly recruited Deputy Registrars in PB-3 (Rs.15600-39100) with GP of Rs. 7600/- for financial upgradation to PB-4 (Rs. 37400-67000) with GP of Rs.8700/- in five year be **EXTENDED** to those Assistant Registrar(s) who acquired this PB-3 (Rs.15600-39100) with GP of Rs. 7600/- by way of financial upgradation.

RESOLVED further that the Deputy Registrar in the PB-4 (Rs. 37400-67000) with GP of Rs.8700/- be **RE-DESIGNATED** as Joint Registrar with the stipulation that the post will revert as Deputy Registrar when the post of Joint Registrar falls vacant.

Item No. 9

Revision of sanctioning authority for Earned Leave (EL)/Half Pay Leave (HPL)/ Commuted Leave/Maternity Leave, Paternity leave in respect of staff of the Institute:

The Board was informed that earlier the leave sanctioning authority in respect of Earned Leave (EL)/Half Pay Leave (HPL)/ Commuted Leave/Maternity Leave, Paternity Leave for the staff was Registrar (for Group-A staff) and Deputy Registrar (for Group-B,C & D staff). But later on the sanctioning authority was revised to the official, under whose control the staffs are working. As a result the procedure for final sanction of Leave of the staff including issue of Leave Sanction Order (LSO) increased many folds. The entire process is time consuming and involves unnecessary shunting of papers. So to make the process simple and fast, it is proposed that leave of all the staff (non Teaching) be sanctioned by the Registrar of the Institute on recommendation of the Controlling Officer by modifying the section 1.3:(Earned Leave/Half Pay Leave/Commuted Leave/Maternity leave, Paternity leave) of existing Delegation of power.

The Board was requested to consider and approve.

The Board considered and approved as below:

Resolution No.: R_80 BOG/09/2015:

RESOLVED that the proposal of modification of delegation of power in respect of sanction of Earned Leave/Half Pay Leave/Commuted Leave/Maternity leave, Paternity leave of all the staff (non- teaching) under section 1.3 be **APPROVED** as below:

SI No	Category	Recommending Authority	Sanctioning Authority	Remarks
1.	Dy. Director, Deans, Registrar, Head Library, Chairman JEE, GATE, JAM	-	Director	As earlier, no change
2.	Heads of Depts., Centres, Faculty Members	-	Dean Faculty Affairs	

3.	Head of the Section	Dy. Director /concerned Deans/Controlling officer as applicable	Registrar	Modified
4.	Staff in Departments /Centres/Sections/ Hostels etc	Head of the Department/ Centres/Section /Controlling officer as applicable	Registrar	
NB: Recommendation as applicable is Mandatory. For commuted leave, maternity and paternity leave, certificate from CMO is required in all cases.				

Item No. 10

Charging application fee for applying for recruitment in the non-teaching positions at IIT Guwahati:

The Board was informed that presently there is no application fee for applying for recruitment in any position in IIT Guwahati irrespective of teaching or non-teaching positions. This was done to receive as many applications as possible during the initial days of establishment of the Institute and the Institute was ready to pay the expenditure involved in the recruitment process. But, with passing time, the situation has changed. The number of application received by the Institute for non-faculty positions is large. In fact many of them are even not eligible. Further, the cost of recruitment process is also increased considerably.

In view of the above, it is proposed to charge application fee for applying for recruitment in the non-teaching positions at the Institute.

The Board was requested to consider and approve.

The Board considered, deliberated and resolved as below:

Resolution No.: R_80 BOG/10/2015:

RESOLVED that application fee from applicants be charged for applying for recruitment in the non-teaching position at IIT Guwahati be **APPROVED** as below:

- a) For Group B, C & D positions: Rs. 300/- per application/per post. (50% of the amount for SC/ST/PD candidates)
- b) For Group A position: Rs.500/- per application/per post. (50% of the amount for SC/ST/PD candidates)

Item No. 11

Creation of a Hindi Cell in IIT Guwahati:

The Board was apprised that to achieve the goals set by Official Language Implementation Committee in the Institute which in brief includes the targets of Annual Programme for transacting the official work of the Union in Hindi, to organise Hindi divas/fortnight, to monitor internal progress of the Institute regarding use of Hindi, submitting quarterly progress report, preparation of inspection report of MHRD, publishing a six monthly e-journal and other misc. works, it is essential to create a Hindi Cell in Institute. Further from time to time inspections were conducted by the Regional Implementation officer (NER), Department of Official Language, Ministry of Home Affairs in the Institute and their report also suggested for creation of a Hindi Cell.

Accordingly, the Board was requested to consider and approve creation of a Hindi Cell with adequate Officer and Staff.

The Board considered and resolved as below:

Resolution No.: R_80 BOG/11/2015:

RESOLVED a Hindi Cell in Institute be **CREATED** with the following Officer and Staff:

- i) Sr. Hindi Officer/Hindi Officer = 1 post
- ii) Hindi Assistant (equivalent to Jr. Assistant with similar up gradation provisions) = 2 posts
- iii) Jr. Attendant = 1post

RESOLVED further that two posts of Hindi Assistants be created and new Recruitment Rules (RRs) for all the said posts be prepared.

Item No. 12

Constitution of a new Appraisal Committee for selection of Faculty for the HAG scale:

The Board was informed that an Appraisal Committee for HAG scale selection was constituted for a period of 3 years, which was approved by the BOG, in its 67th Meeting, held on 30/11/2011. The structure of the Committee is as follows:

- a) Director, IIT Guwahati - Chairman
- b) 6 (six) numbers of Experts - Member
- c) Dean of Faculty Affairs, IIT Guwahati - Non-member Secretary

However the term of the experts of the existing Committee had ended and hence, a new Appraisal Committee for HAG scale selection may be constituted for another period of 3 years.

The Board was requested to consider and decide.

The Board considered the proposed names of the experts and resolved as below:

Resolution No.: R_80 BOG/12/2015:

RESOLVED that the new Appraisal Committee for selection of Faculty for the HAG scale be **CONSTITUTED** as below:

- A. Director, IIT Guwahati - Chairman
- B. 6 (six) numbers of Experts - Members

- i. [Redacted] Restricted [Redacted]
[Redacted]
- ii. [Redacted]
[Redacted]
- iii. [Redacted]
[Redacted]
[Redacted]

iv. [REDACTED]
[REDACTED]

v. [REDACTED]

vi. [REDACTED]
[REDACTED]

C. Dean of Faculty Affairs, IIT Guwahati - Non-member Secretary

Item No. 13

Retention and disposal of old faculty/staff applications of the candidates not selected for job at the Institute:

The Board was informed that the Institute had been retaining all the applications of candidates right from the inception, who had applied for various faculty/staff positions, time to time even though they were not selected. Since such recruitments are held every year, the volume had become unmanageable and as such, these need to be disposed.

In the absence of the Record Retention Schedule for the Institute, the Board was requested to consider and approve disposal of all such applications of the candidates for faculty/staff positions who are not selected for the job and which are more than 5 years old as on this date.

The Board considered and resolved as below:

Resolution No.: R_80 BOG/13/2015:

RESOLVED that all applications of the candidates for faculty/staff positions who are not selected for the job and which are more than 5 years old as on this date be **DISPOSED OFF** by shredding.

Item No. 14

Rectification and ratification under Item No.13 of the 64th BOG Minute held on 28/02/2011 in respect of recommendation of the selected Assistant Professors in the

Department of Chemistry:

The Board was informed that in the 64th BOG meeting held on 28/02/2011, the recommendation for the Assistant Professors who were selected in the Department of Chemistry was inadvertently been mentioned as “to be placed at Rs. 30,000+8000 after 3 years from date of PhD submission”. However, the recommendation of the Selection Committee for the post of Assistant Professors was “to be allowed to move to Grade pay of Rs. 30,000/- + AGP 8,000/- after one year of satisfactory service at the Institute”.

It was a typographical error which has been noticed recently and hence the Board was requested to consider and ratify the rectification.

The Board considered and resolved as below:

Resolution No.: R_80 BOG/14/2015:

RESOLVED that the rectification of the recommendation as “to be allowed to move to Grade pay of Rs.30,000/- + AGP 8,000/- after one year of satisfactory service at the Institute” in respect of the recommendation for the Assistant Professors who were selected in the Department of Chemistry in the 64th BOG meeting held on 28/2/2011 be **RATIFIED**.

Item No. 15

Modification of a few Recruitment Rules in respect of some Non Teaching Staff:

The Board was apprised that the Recruitment Rules in respect of Deputy Librarian, Assistant Executive Engineer and Junior (Technician/Mechanic /Lab Assistant) which were first approved in the 73rd (special) BOG meeting held on 07/04/2013 require some modifications in terms of educational qualification and experience. The revised recruitment rules of the aforesaid positions were placed before the Board.

The Board was requested to consider and approve.

The Board considered and resolved as below:

Resolution No.: R_80 BOG/15/2015:

RESOLVED that the revised Recruitment Rules (RRs) in respect of Deputy Librarian,

Assistant Executive Engineer and Junior (Technician/Mechanic /Lab Assistant) be **APPROVED** as placed as **Annexure – 5P**(62-65).

Item No. 16

Career Progression of Technical Officers of the Institute:

The Board was informed that the matter on Career Progression of Technical Officer in IIT Guwahati for generating motivation amongst the Technical Officers in conformity with their qualifications and experience was placed before the Board in its meeting held on 19/12/2014 and the Board after discussion decided to defer the same seeking a report on the various aspects which may arise out of implementation of the proposal.

Accordingly the report was placed before the Board with a request to consider and decide.

The Board considered, deliberated and resolved as below:

Resolution No.: R_80 BOG/16/2015:

RESOLVED that the recommendation of the Committee on the Career Progression of Technical Officers in the Institute be **APPROVED** with the provision of signing an undertaking which are enclosed as **Annexure – 6P**(66-67).

Item No. 17

Ratification of the approvals accorded by the Chairman, BOG:

Following items approved by the Chairman, BOG were put up before the Board for ratification:

- (A) Approval to the recommendation of External Nominee to the Senate of IIT Guwahati.
- (B) Approval to the recommendation of the Selection Committee for post of Assistant Librarian of IIT Guwahati.

- (C) Approval to the recommendation of the Selection Committee for Faculty Position in the Department of Civil Engineering.
- (D) Approval to the recommendation of the Selection Committee for Faculty Position in the Department of Mechanical Engineering.
- (E) Approval to the Director's visit to the University of Macau, China for signing MoU .
- (F) Approval to the recommendations of the Selection Committee for the Faculty position in the Department of Chemistry.

The Board considered and ratified the approvals as below:

Resolution No.: R_80 BOG/17/2015:

RESOLVED that the following approvals accorded by the Chairman BOG be **RATIFIED** as below:

- (A) Approval of nomination of Prof B. P. Chetia in the field of Science and Prof. H. K. Das in the field of Engineering as external nominees to the Senate of the Institute for a term of two years with effect from 11/03/2015 and 15/03/2015 respectively which may further be extended.
- (B) Approval to the recommendation of the Selection Committee for post of Assistant Librarian of IIT Guwahati as below:

Sl. No.	Name	Recommended for	Scale of Pay
1.	Dr. Sanjib Kumar Deka	Assistant Librarian	As per rule
Waiting List			
1.	Dr. Apurbajyoti Majumder	Assistant Librarian	As per rule

- (C) Approval to the recommendations of the Selection Committee for the Faculty positions in the Department of Civil Engineering as below:

Sl. No.	Name	Recommended for	Initial Pay (Rs.)	Remarks
1.	Dr. Gautam Barua	Professor	As per rules	

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2.	Dr. Sharad Bhaurao Gokhale			
3.	Dr. Rajib Kumar Bhattacharjya *			*He will be permitted to join the post after 22/4/2015
4.	Dr. Pranab Kr. Ghosh*			*He will be also permitted to join the post after 22/4/2015
5.	Dr. Ajay Kalamdhad	Associate Professor	As per Rules	
6.	Dr. Bimlesh Kumar			
7.	Dr. Laishram Boieng Singh*			*He will be permitted to join the post after 31/1/2015
8.	Dr. Rajan Choudhary			
9.	Dr. Anjan Kumar Siddagangaiah	Assistant Professor	As per Rules	Rs.22640/-+AGP Rs 7000/-
10.	Mr. Rishikesh Bharti			Rs20,140/-+AGP 6000/- (joining is after defence of PhD)
11.	Mr. Ankit Garg			Rs.20,140/-+AGP 6000/- (joining is after defense of PhD)
12.	Dr. Ajay Dashora			Rs 22640/-+AGP Rs.7000/-
13.	Dr. Ravi K			Rs 22640/-+AGP Rs.7000/-
14.	Dr. Archana M. Nair.			Rs 30000/-+AGP 8000/-
15.	Dr. Venkata Santosh Kumar Delhi			Rs.20930/-+AGP Rs 6000/-

Except SI No 14. all others i.e from 9 to 15 mentioned above, on satisfactory performance at IIT Guwahati will move to regular position with a pay of Rs 30,000/-+AGP Rs.8000/- after 3 years of work experience considering the period since defence of PhD thesis.

- (D) Approval to the recommendations of the Selection Committee for the Faculty position in the Department of Mechanical Engineering w.e.f 28/01/2015 as below:

SI. No.	Name	Recommended for	Initial Pay (Rs.)/ Remarks(if, any)
1.	Dr. P.Muthukumar	Professor	As per rules
2.	Dr. Niranjan Sahoo		
3.	Dr. Dibakar Bandopadhyaya	Associate Professor	
4.	Dr. V.N.Kulkarni		
5.	Dr. Ganesh Narayanan		
6.	Dr. Amaresh Dalal		
7.	Dr. Karuna Kalita		
8.	Dr. C.Somayaji		
9.	Dr. S.D.Kore		
10.	Dr. Pankaj Biswas		
11.	Dr. S.Panda		
12.	Dr. Sukhamoy Pal		
13.	Dr. Bhaskar Kumar	Assistant Professor	Rs30,000/-+AGP 8,000/-
14.	Dr. Prasenjit Khanikar		Rs 21,770/-+AGP 7,000/-
15.	Dr. Pranab Kr. Mondal		Rs.20,140/-+AGP 6,000/-
16.	Dr. Sitaditya Pal		Rs.30,000/-+AGP 8,000/-
17.	Dr. B. Mehta		Rs.20,930/-+AGP Rs.6,000/-

- (E) Approval to the Director's visit to the University of Macau, China during the period from 02/02/2015 to 06/02/2015 for signing an Memorandum of Understanding (MoU) between IIT Guwahati and the University of Macau (UM) in order to advance and enrich the academic programmes of the Institute and promote exchange of students.
- (F) Approval to the recommendations of the Selection Committee for the Faculty position in the Department of Chemistry w.e.f.21/02/2015 as below:

Sl. No.	Name	Recommended for	Initial Pay (Rs.)	Remarks
a	Professor			
1.	Dr. Govindarajan Krishnamoorthy	Professor	As per rules	-
2.	Dr. Biplab Mondal			
3.	Dr Anumita Paul			
4.	Dr. Ashish Kumar Gupta			

b	Associate Professor			
1.	Dr. Debasis Manna	Associate Professor	As per rules	-
2.	Dr. Kalyanasis Sahu			
3.	Dr. Chandan Mukherjee			
4.	Dr.Subhash Ch.Pan			
5.	Dr.Achal Kumar A.Sudhakar			
6.	Dr.ManabendraSarma			
7.	Dr. Chandan Kr.Jena			
8.	Dr. Sumana Dutta			

9.	Dr. Lal Mohan Kundu			
10.	Dr. Bhubaneswar Mandal			
11.	Dr. C.V.Sastri			
12.	Dr. Debapratim Das			

c	Assistant Professor			
.1.	Dr. Kalyan Raidongia	Assistant Professor	As per Rules	Rs.30,000/-+AGP 8,000/-(+1 increment
2.	Dr. Dipankar Srimani			Rs.30,000/-+AGP 8,000/-(+1 increment)
3.	Dr. Animesh Das			Rs.30,000/-+AGP 8,000/-(+ 1 increment
4.	Dr. Krishna Pada Bhabak		As per Rule	Rs.30,000/-+AGP 8,000/-(+ 2 increment)
5.	Dr. Pavan Kr. Kancharia *			Rs.22,640/-+AGP Rs.7000/-
6.	Dr. A.K.A Seetharam			Rs.30,000/-+AGP 8000/-(+ 2 increment)
7.	Dr. Uttam Manna			Rs.30,000/-+AGP 8000/-(+1 increment)

Sl.No. 5 of c *On satisfactory performance at IIT Guwahati and 3 years of work experience after defence of PhD. Thesis, to be placed in a regular positions of PB-Rs.30,000/-+AGP Rs.8000/-.

Item No. 18

Items approved by the Director:

The following items approved by the Director are reported to the Board:

- a. Attendance of Conference / Seminar etc. abroad.
- b. Appointments and Extension of Dean, Associate Dean, Warden and Associate Warden Positions.
- c. Confirmation of Faculty Members.
- d. Confirmation of Non-faculty Members.
- e. Approval to the recommendations of the Selection Committee for Internal recruitment to the various non-faculty posts.
- f. Approval to the grant of special leave to a female employee of the Institute.
- g. Medical reimbursement of Prof. Utpal Barua.
- h. Approval to the recommendation of the Selection Committee for Internal recruitment to the various non -faculty posts.
- i. Extension of probation period.
- j. Recommendation of Visiting Artist in Residence .

The Board considered the items approved by the Director and resolved as below:

Resolution No.: R_80 BOG/18/2015:

RESOLVED that the following items approved by the Director be **NOTED** as below:

- a. **Attendance of Conference / Seminar etc. abroad as reported.**
- b. **Appointments and Extension of Dean, Associate Dean /HOD/Chairman/ Faculty in charge/Ombudsmen Positions etc as mentioned below:**

SI. No.	Name	Position	Period of Appointment / Extension
1.	Prof. D. Chakraborty, Department of Mechanical	Dean, Research &	Term extended for one year w.e.f 1/1/2015

	Engineering	Development	
2.	Prof. Rajib Kr Bhattacharjya, Department of Civil Engineering	Associate Dean of Infrastructure Planning Management	Term extended for one year w.e.f.1/1/2015.
3.	Prof. Sukumar Nandi, department of CSE	Head, centre for Linguistic Science & Technology	Appointed with immediate effect until further order under notification dated 31/12/2014.
4.	Prof. Subhasisha Dutta, Department of Civil Engineering	Head, Department of Civil Engineering	Appointed for three years w.e.f.20/1/2015.
5.	Prof. Vikash kr Dubey, Department of Biotechnology	Chairman, Students' Welfare Board	Appointed for two years with effect 29/12/2014.
6.	Prof. A. Perumal, Department of Physics	Chairman, Sports Board Gymkhana	Term extended for one year w.e.f.1/1/2015
7.	Dr. Jatindra Kr Deka, Department of CSE	Faculty In charge, TIC- IITG	w.e.f 2/2/2015 until further order.
8.	Prof. S.Ravi, Department of Physics	Ombudsmen, Siang and Married Scholar Hostel	Appointed for three years w.e.f.9/1/2015
9.	Prof. D.C.Dalal, Department of Mathematics	Ombudsmen , Brahmaputra Hostel	
10.	Prof. Purandar Bhaduri,	Ombudsmen,	

	Department of CSE	Dihing and Manas Hostel	
11.	Prof. Krishna Barua, Department of HSS	Ombudsmen, Subansari and Dhansiri Hostel	
12.	Prof. T Punniyamurthy, Department of Chemistry	Ombudsmen, Dibang and Kapili Hostel	
13.	Prof. S.K.Khijwania, Department of Physics	Ombudsmen, Barak Hostel	
14.	Prof. P. Ghosh, Department of Chemical Engineering	Ombudsmen, Lohit Hostel	
15.	Prof. V.Manivannan, Department of Chemistry	Ombudsmen, Kameng Hostel	
16.	Prof. K.S.R.Krishna Murthy, Department of ME	Ombudsmen, Umiam Hostel	
17.	Prof. V.V.Dasu, Department of Biosciences & Bioengineering	Head, Department of Biosciences & Bioengineering.	Extended for a period of two years w.e.f.25/2/2015.

c. Confirmation of Faculty Members as mentioned below:

Sl. No.	Name	Post
1.	Dr. Rakhi Chaturvedi	Professor, Biosciences and Bioengineering
2.	Dr. Latha Rangan	Professor, Biosciences and Bioengineering
3.	Dr. Vikash Kumar Dubey	Professor, Biosciences and Bioengineering
4.	Dr. Debasish Das	Associate Professor, Biosciences and Bioengineering

5.	Dr. Biplab Bose	Associate Professor, Biosciences and Bioengineering
6.	Dr. Sanjukta Patra	Associate Professor, Biosciences and Bioengineering
7.	Dr. Sunanda Chatterjee	Assistant Professor, Chemistry
8.	Dr. Subhaditya Bhattacharya	Assistant Professor, Physics
9.	Dr. Mamilla Ravi Shankar	Assistant Professor, Mechanical Engineering

d. Confirmation of Non-faculty Members as mentioned below:

Sl. No.	Name	Post
1.	Dr. Tamal Kumar Guha	Librarian
2.	Mr. Dhruvajyoti Sharma	Deputy Registrar
3.	Mr .Dilip Boro	
4.	Mr. Kuntal Bhuyan	
5.	Mr. Sanjib Das	
6.	Mr Sanjay Mandal	Assistant Registrar
7.	Ms. Lipika Nath	Senior Technical Superintendent
8.	Mr. Khurshid Ali	
9.	Ms. Manoshee Neog	Senior Hindi Officer
10.	Mr. Dipon Lall Boishya	Accounts Officer
11.	Mr. Bhupen Nath	
12.	Mr. Jiten Sarmah	
13.	Ms. Prarthana Swargari	
14.	Md. Nurul Islam	Junior Technical Superintendent
15.	Mr. Chitta Ranjan Medhi	
16.	Mr. Chandan Kr.Nath	
17.	Mr. Pulala Raghuvveer Yadav	
18.	Mr. Pranab Hazarika	

19.	Mr. Partha Protim Bakal	
20.	Mr. Pranpratim Borgohain	
21.	Mr. Dipankar Barman	
22.	Mr. Madan Kalita	Attendant
23.	Mr. Manoj Boro	Junior Attendant
24.	Mr. Bhrigu Kalita	
25.	Mr. Gobinda Medhi	

- e. **Approval to the recommendations of the Selection Committee for Internal recruitment to the various non-faculty posts as mentioned below:**

i) **Senior Technician Gr. I**

Sl No	Name	Post	Scale of Pay
1.	Mr. Manashjyoti Nath	Senior Technician Gr.I	As per rules
2.	Mr. Dhaneswar Khaklary		
3.	Mr. Bijoy Deka		
4.	Mr. Pankaj Sekhar Baruah		
5.	Mr. Payodhar Pathak		
6.	Mr. Lakhinath Gogoi		
7.	Mr .Mrinal Ch.Sarma		
8.	Mr. Nripen Kalita		
9.	Mr. Minesh Ch.Medhi		
10.	Mr .Bijoy Kr Choudhury		

11.	Mr .Hari Ram Upadhyay		
12.	Mr. Dipak Kr. Deka		
13.	Mr. Dilip Chetri		
14.	Mr. Upen Gohain		
15.	Mr. Joykrishna Saikia		
16.	Mr. Manoj Kumar Baishya		
17.	Ms. Jurijyoti Hazarika		
18.	Mr. Balen Ch.Mahanta		
19.	Mr. Porag Saikia		
20.	Mr. Nidul Saikia		

ii) Sr. Mechanic Gr.I

Sl. No.	Name	Post	Scale of Pay
1.	Mr. Debojit Kumar Borah	Sr. Mechanic Gr.I	As per Rules
2.	Mr Achyut Ch.Sarma		
3.	Mr. Prasanta Hazarika		
4.	Mr. Ramani Kalita		
5.	Mr. Prafulla Mudoj		
6.	Mr. Gajendra Chandra Nath		
7.	Mr. Sanatan Barman		

iii) Sr. Laboratory Assistant Gr.I

Sl. No.	Name	Post	Scale of Pay
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1.	Mr. Dipak Lahkar	Sr. Laboratory Assistant Gr.I	As per Rules
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- f. Approval to the grant of special leave to an aggrieved female employee:**
Approval to the grant of special leave to an aggrieved female employee of the Institute from 05/12/2014 to 2/1/2015=29 days without deduction from leave account under chapter clause 12(2), of the Sexual Harassment of Women at Workplace Act 2013. As per the clause“ the leave granted to a aggrieved woman under this, shall be in addition to the leave she would be otherwise entitled, no leave should be deducted from the commuted leave she has earned” .
- g. Approval to the Medical reimbursement (Physiotherapy treatment) of Prof. Utpal Barua, Department of Design:** Approval to the Medical reimbursement (Physiotherapy treatment) of an amount of Rs 2.39 lakhs above the maximum ceiling of reimbursement in the Institute to Prof. Utpal Barua, Department of Design.
- h. Approval to the recommendations of the Selection Committee for Internal recruitment to the various non-faculty posts as below:**

Junior Technical Officer:

Sl No	Name	Post	Scale of Pay
1.	Mr. Lipika Nath	Junior Technical Officer	As per Rules
2.	Mr. Lokesh Chakravorty		
3.	Mr. Nandan Kanan Das		
4.	Mr. Bishnu Tamuli		
5.	Mr. Hitesh Sharma		
6.	Mr. Dhruva Jyoti Bordoloi		
7.	Mr. Mrinal Kanti Chakraborty		
8.	Mr. Khurshid Ali*		

* Probation for two years

- i. Extension of probation period:**

SI No	Name	Post	Remarks
1.	Ms. Jharna Rani Rabha	Technical Superintendent(TS)	Probation period extends for a period of six months (06) from 28/12/2014 to 27/06/2015 under same terms & conditions of initial appointment for the post of TS.

j. Recommendation of Visiting Artist in Residence as below:

SI No	Name	Recommended for	Initial Pay (Rs)	Remarks
1.	Dr. Devananda Pathak	Artist in Residence	Restricted	Consolidated pay
2.	Dr. Anwesa Mahanta	Same as above	Restricted	Same as above
3.	Ms. Bhaswati Sarma	Same as above	Restricted	Same as above
4.	Ms. Anita Mahanta	Same as above	Restricted	Same as above

Item No. 19

Minutes of the Hundred Eleventh, Hundred Twelfth and Hundred Thirteenth meeting of the Senate of the Institute held on 25/09/2014, 01/12/2014 and 24/12/2014 respectively:

Hundred Eleventh, Hundred Twelfth and Hundred Thirteenth meeting of the Senate of the Institute were held on 25/09/2014, 01/12/2014 and 24/12/2014 respectively. The Minutes of the above Senate meetings are placed before the Board for consideration and noting.

The Board considered and resolved as below:

Resolution No.: R_80 BOG/19/2015:

RESOLVED that the Minutes of the Hundred Eleventh, Hundred Twelfth and Hundred Thirteenth meeting of the Senate of the Institute were held on 25/09/2014, 01/12/2014 and 24/12/2014 respectively of the Institute be **NOTED**.

Item No. 20

Minutes of the Seventy Sixth Meeting of the Building and Works Committee of the Institute held on 28/11/2014:

Seventy Sixth Meeting of the Building and Works Committee of the Institute was held on 28/11/2014. The Minutes of the above Building and Works Committee meeting was placed before the Board for consideration and noting.

The Board considered and resolved as below:

Resolution No.: R_80 BOG/20/2015:

RESOLVED that the Minutes of the Seventy Sixth Meeting of the Building and Works Committee of the Institute was held on 28/11/2014 be **NOTED**.

Item No. 21

Items for Reporting to the Board:

The following items were reported to the Board for noting:

The Board considered and resolved as below:

Resolution No.: R_80 BOG/21/2015:

RESOLVED that the following items as reported to the Board be **NOTED**:

- A)** Election of Prof. Rafikul Alam , Department of Mathematics as the next Senate's Nominee to the Board of Governors of IIT Guwahati for a term of two years from 01/01/2015 to 31/12/2016.
- B)** Revised classified list of Reporting Officers, Reviewing Officers and Accepting Officers of Annual Performance Appraisal Report (APAR) of Staff prevalent in the institute
- C)** Consumer Complaint petition filed at National Commission vide case No CC/525/2014, New Delhi against M/s United India Insurance Co. Ltd., Kolkata for

a claim against an Equipment with an order value of Euro 3,00,000/- on CIF (Kolkata) basis which was under marine cargo insurance coverage of M/s United India Insurance Co. Ltd., Kolkata and was badly damaged during its transit from Kolkatta to IIT Guwahati which was procured from M/s Omicron Nanotechnology GmbH, Germany. However the company repudiated the claim on the ground that the said damage is due to Jerk and Jolt which is excluded under the policy term.

- D) Ministry of Human Resource Department , GOI's Secondment Assignment of Prof. Arup Kr. Sarma , Department of Civil Engineering of this Institute to the Asian Institute of Technology , Bangkok, Thailand as Visiting Professor in the School of Engineering and technology from 21/01/2015 to 30/05/2015.
- E) Ministry of Human Resource Department , GOI's Secondment Assignment of Prof. Mohammad Jawed, Department of Civil Engineering of this Institute to the Asian Institute of Technology Bangkok, Thailand as Visiting Professor in the School of Environment, Resource and Development from 21/01/2015 to 30/05/2015.

The following additional items were taken up by the Board with the permission of the Chair

Item No. 22

Memorandum of Understanding (MOU) in respect of the proposal for Establishment of Society for Applied Microwave Electronics Engineering and Research (SAMEER) Centre at IITG campus:

The Board was informed that the matter regarding proposal of establishment of a SAMEER Centre High Power Microwave Tubes and Components Technology at IIT Campus and MOU thereof was discussed in the 78th BOG meeting held on 27/10/2014 and the Board vide Resolution R78/19/2014 decided as below:

“The Board APPROVED the proposal of establishment of SAMEER centre at IITG campus and also RESOLVED that the Memorandum of Understanding (MOU) placed before the Board be APPROVED in principle and any other changes incorporated in the MOU during the course of time

will be ratified in the subsequent BOG meeting.”

Now, Sr. Director & Group Coordinator of Ministry of Communication and Information Technology, Department of Electronics and Information Technology, (DeitY) communicated vide letter under Ref No DO No.25/5/2014-R&D in CC&BT dated 16/02/2015 informing that the Ministry has approved the implementation of the project “Establishment of an extension centre of SAMEER” at IIT Guwahati, with an outlay of Rs. 24.88 Crores for a period of three years and the draft Memorandum of Understanding (MOU). Now they have requested the Institute for arranging for signing of the MOU.

However, while scrutinizing the MOU in the Institute, it has been observed that, some of the modification in the Operational modalities of the MOU approved in the 78th BOG meeting are either not incorporated or differently incorporated.

- a)** In the SAMEER approved one it has been specifically written construction of built up space of approx. 2000 sq. m. by IITG for SAMEER “free of cost” but in the BOG approved one it has not been written so.
- b)** In the BOG approved one it has been written that “about 150 square meter” as additional open area in front of TIC for construction of radiation shielded facility, but it has not been written in the SAMEER approved one.
- c)** In the BOG approved one it has been written that “The space allotted in the TIC will be handed over back to IIT Guwahati after SAMEER builds its research facilities in the land allocated to it” but it has not been written in the SAMEER approved one.
- d)** In the BOG approved one it has been written that “The initial period of lease will be for 10 years and the period will be extended later for a suitable period” but it has not been written in the SAMEER approved one.

The Board was requested to consider and decide.

The Board considered, deliberated and viewed that the modifications, not incorporated or differently incorporated, are waiveable in nature except the following:

- a)** Construction of built up space of approx. 2000 sq. m. by IITG for

SAMEER “free of cost”.

- b)** Allotment of “about 150 square meter” as additional open area in front of TIC for construction of radiation shielded facility.
- c)** Handing over of the space allotted in the TIC back to IIT Guwahati after SAMEER builds its research facilities in the land allocated to it.
- d)** Leasing of the IITG land for an initial period of 10 years with a provision of extension later for a suitable period.

Accordingly the Board resolved as below:

Resolution No.: R_80 BOG/22/2015:

RESOLVED that Ministry approved Memorandum of Understanding (MOU) as forwarded by SAMEER be **SIGNED** with the understanding that the following matter be settled through discussion and negotiation by both the organisations viewing that there shall not be any problem in negotiation of the above issues as both are Govt. Of India organisations:

- a)** Construction of built up space of approx. 2000 sq. m. by IITG for SAMEER “free of cost”.
- b)** Allotment of “about 150 square meter” as additional open area in front of TIC for construction of radiation shielded facility.
- c)** Handing over of the space allotted in the TIC back to IIT Guwahati after SAMEER builds its research facilities in the land allocated to it.
- d)** Leasing of the IITG land for an initial period of 10 years with a provision of extension later for a suitable period.

Item No. 23

Procedure to conduct Disciplinary proceeding against an employee of the Institute:

The matter was placed before the Board but the Board viewed that there will be paucity of time and so decided to defer the item.

Resolution No.: R_80 BOG/23/2015:

RESOLVED that the item be **DEFERRED** to next meeting of the Board due to paucity of time in this meeting.

Item No. 24

Introduction of a Master's degree programme, that is, Master of Science by Research in Energy [M.S.(R) in Energy] in the Centre for Energy:

The Board was informed that the 114th Meeting of the Senate of the Institute held on 25/02/2015 discussed in detail about introduction of a Master's Programme, that is, Master of Science by Research in Energy [M.S.(R) in Energy] in Centre for Energy and recommended the same for approval of the Board.

The Board was requested to consider and approve.

The Board considered and approved as below:

Resolution No.: R_80 BOG/24/2015:

RESOLVED that the proposal of introduction of a Master's degree programme, that is, Master of Science by Research in Energy [M.S.(R) in Energy] in the Centre for Energy be **APPROVED** as per recommendation of the 114th Meeting of the Senate Meeting of the Institute held on 25/02/2015, the details of which including the details of Courses and Ordinances, Rules and Regulations governing the programme being enclosed as **Annexure-7**P(68-81) and **Annexure-8** P (82-101) respectively.

Item No. 25

Introduction of a Dual [MS (Eng.)+PhD] degree in the department of Electronics & Electrical Engineering (EEE) of the Institute:

The Board was informed that the 114th Meeting of the Senate of the Institute held on 25/02/2015 discussed in detail about introduction of a Dual [MS (Eng.)+PhD] degree in the department of Electronics & Electrical Engineering (EEE) of the Institute and recommended the same for approval of the Board.

The Board was requested to consider and approve.

The Board considered and approved as below:

Resolution No.: R_80 BOG/25/2015:

RESOLVED that the proposal of introduction of a Dual [MS (Eng.)+PhD] degree in the department of Electronics & Electrical Engineering (EEE) of the Institute be **APPROVED** as per recommendation of the 114th Meeting of the Senate of the Institute held on 25/02/2015, the details of which including the details of Courses and Ordinances, Rules and Regulations governing the programme being enclosed as **Annexure-9**P(102-105) and **Annexure-10** P(106-115) respectively.

Item No: 26

Revised proposal for admission of candidates from North Eastern region in to M Sc. Programme of the Institute:

The Board was informed that the 101st Meeting of the Senate, held on October 8, 2013, vide resolution No. R.101/12/2013, approved a proposal for admitting annually 8-10 students from North Eastern region to M.Sc. programme, giving preference to persons serving as permanent teachers and fresh science graduates, over and above those admitted through Joint Admission Test for M.Sc.(JAM), through separate admission tests to be conducted by concerned academic departments of the Institute; with the condition that, prior to implementation, the decision of the Senate on the subject be reported to the IIT Council. Subsequently, 76th Meeting of the Board of Governors (BOG) of the Institute, held on 25/02/2014, approved the proposal; and a letter No. DIR/IITG/05/MHRD/2014/2292, dated 04/09/2014, was sent to the MHRD, Government of India, for approval. The approval was long awaited, and reported to several Meetings of the Senate in the past. In the first half of February, 2015, the Director of the Institute further pursued the matter with concerned officials of the MHRD, GOI. At this instance, it was advised that the proposal for admitting annually 10 students from the North Eastern region in to M.Sc. programme, over and above those admitted through Joint Admission Test for M.Sc. (JAM), through separate admission tests to be conducted by the concerned Academic departments of the Institute could be considered, provided that the provisions for reservation of seats follow the reservation policies of Govt. of India. The Board was also informed that the 114th Meeting of the Senate of the Institute held on 25/02/2015 discussed in detail the proposal and recommended the same for approval of the Board in which the

provisions for reservation of seats were kept similar to those followed at the all-India level. Keeping in view the above, it is proposed to send the revised proposal to the MHRD, GOI.

The Board was requested to consider and decide.

The Board considered and resolved as below:

Resolution No.: R_80 BOG/26/2015:

RESOLVED that the revised proposal, which is enclosed as **Annexure-11 P**(116-117) for admission of candidates from the North Eastern region in to M.Sc. Programme of the Institute be **APPROVED** for forwarding to the Govt. Of India, Ministry of HRD, New Delhi.

Item No. 27

Amendments in the existing B.Tech/B.Des Ordinances and Regulations, M.Sc/M.A Ordinances, Rules and Regulations, M.Tech/M.Des Ordinances, Rules and Regulations and Ph.D Ordinances, Rules and Regulations of the Institute:

The Board was informed that the 114th Meeting of the Senate of the Institute held on 25/02/2015 discussed in detail a proposal of **amendments in the existing** B.Tech/ B.Des Ordinances and Regulations, M.Sc/M.A Ordinances, Rules and Regulations, M.Tech/M.Des Ordinances, Rules and Regulations and Ph.D Ordinances, Rules and Regulations and recommended the same for approval of the Board.

The Board was requested to consider and approve.

The Board considered and resolved as below:

Resolution No.: R_80 BOG/27/2015:

RESOLVED that the amendments to existing B.Tech/B.Des Ordinances and Regulations, M.Sc/M.A Ordinances, Rules and Regulations, M.Tech/M.Des Ordinances, Rules and Regulations and PhD Ordinances, Rules and Regulations be **APPROVED** as per recommendation of the 114th Meeting of the Senate of the Institute held on 25/02/2015, the details of which are being enclosed as **Annexure-12P**(118-125) , **Annexure-13P**(126-129) , **Annexure-14P**(130-135) and **Annexure-15P**(136-141) respectively.

Item No.28**Approval to the recommendations of the Selection Committee for the Faculty position in the Department of Mathematics :**

The Board was informed that a meeting of the Selection Committee for the Faculty position in the Department of Mathematics was held on 28/02/2015. The recommendation of the Selection Committee was placed before the Board on the day of the Board's meeting

The Board was requested to consider and approve.

The Board considered and resolved as below:

Resolution No.: R_80 BOG/28/2015:

RESOLVED that the recommendation of the Selection Committee for the Faculty position in the Department of Mathematics held on 28/02/2015 be **APPROVED** as below:

Sl. No.	Name	Recommended for	Initial Pay (Rs.)	Remarks
A	Professor			
1.	Dr. Anupam Saikia	Professor	As per rules	-
2.	Dr. Sukanta Pati			

B	Associate Professor		As per rules	-
1.	Dr. Siddhartha Pratim Chakraborty	Associate Professor		
2.	Dr. Partha Sarathi Mandal			

C	Assistant Professor			
1.	Dr. Arup Chattopadhyay	Assistant Professor	As per Rules	BP Rs.21770+AGP 7000/-

Item No.29**Recruitment of four faculty members (Assistant Professors) in the few core areas of Energy Research in the Centre for Energy of the Institute:**

The Board was informed that a proposal was received from the Head, Centre for Energy for recruitment of Faculty members in the following three areas giving proper justification, which was placed before the Board:

- a) Solar /Photovoltaic
- b) Energy Conversion and Power Generation
- c) Power Systems

The Board was requested to consider and decide.

The Board considered and resolved as below:

Resolution No.: R_80 BOG/29/2015:

RESOLVED that the proposal for recruitment of four faculty members (Assistant Professors) in the following core areas of Energy research in the Centre for Energy be **APPROVED** as below:

- a) Solar PV/Solar Thermal - 1 post. (Physics or Electronics)
- b) Energy Conversion
and Power Generation - 2 posts. (Mechanical Engineering)
- c) Power Systems - 1 post. (Electrical/EEE)

RESOLVED further that in case of closure of the Centre, these faculty members be **ABSORBED** in the Department as mentioned above against the post.

Item No.30**Appointment of Dr. Yasufumi Kobayashi as Visiting Assistant Professor in the**

Department of Biosciences and Bioengineering:

The Board was informed that a proposal was received from the Head, Department of Bioscience and Bioengineering to invite Dr. Yasufumi Kobayashi as Visiting Assistant Professor in the Department initially for a period of one year which may be extended based on his satisfactory performance. Dr. Yasufumi Kobayashi is a Research Fellow, Plant Cell Technology in the United Graduate School of Agriculture, Gifu University, Japan and earlier he expressed his interest for a faculty position at this Institute. His research and other academic activities were examined by the department and were found to be suitable for a faculty position as Asst. Professor at the Institute. The Dean, Faculty Affairs also endorsed the same.

The Board was requested to consider and decide.

The Board considered and resolved as below:

Resolution No.: R_80 BOG/30/2015:

RESOLVED that the proposal of appointment of Dr. Yasufumi Kobayashi as Visiting Assistant Professor in the Department of Biosciences and Bioengineering for a period of one year which may be extended further based on satisfactory performance, under the following terms and conditions be **APPROVED**:

1. Consolidated salary of **Restricted**/- per month for the period of appointment .(with standard deduction applicable).
2. Residential accommodation will be provided as per the norms of the Institute.
3. Airfare for self (one time to and fro).
4. Medical and other benefits as applicable for other faculty members

The meeting ended with a vote of thanks to the Chair.

(U. C. Das)
Registrar & Secretary
Board of Governors, IIT
Guwahati



शासी मंडल की 79 व^० बैठक का कार्यवृत्त
MINUTES OF THE SEVENTY NINTH MEETING OF THE BOARD OF GOVERNORS

तारीख रू 19 दिसंबर 2014
DATE & TIME : 19 DECEMBER 2014

भारतीय प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Technology Guwahati

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

MINUTES OF THE SEVENTY NINTH MEETING OF THE BOARD OF GOVERNORS HELD ON 19th DECEMBER 2014

The Seventy Ninth Meeting of the Board of Governors of the Institute was held on 19/12/2014 in the Board Room of IIT Guwahati and the following members were present:

- | | |
|------------------------------|-----------------------|
| 1. Dr. R. P. Singh | Chairman |
| 2. Prof. Gautam Biswas | Director / Member |
| 3. Prof. Asis Dutta | Member |
| 4. Mr. Pydah Venkatanarayana | Member |
| 5. Prof. Arun Chattopadhyay | Member |
| 6. Prof. P. S. Robi | Member |
| 7. Mr. H.K.Sarma | Member |
| 8. Mr. U. C. Das | Registrar / Secretary |

Prof. D.B.Goel, Prof. M.K. Chaudhuri, and Er Liansanga, could not attend the meeting due to their prior engagements and they were granted leave of absence. Before starting the agenda, the Chairman **DISCUSSED** the Audit Report (2013-14) of the Institute. After the discussion, the Chairman proposed that the Accounting Manual for the Internal Audit of the Institute be prepared and put up in the next meeting of the Board.

The Board observed in the Audit Report that the Institute is regular in making payment of statutory dues. The Board appreciated the same.

After that the agenda for the day was taken up as below:

Item No. 1

Confirmation of the Minutes of the 78th Meeting of the Board of Governors of the Institute held on 27/10/2014.

The Minutes of the Seventy Eighth Meeting of the Board of Governors of the Institute was circulated amongst the members of the Board for their comments / observations.

R 79/01/2014: The Board **RESOLVED** that the minutes of the Seventy Eighth Meeting of the Board of Governors of the Institute held on 27/10/2014 be **CONFIRMED** with modifications as suggested by the Board as enclosed in **Annexure – 1** (Not Enclosed).

Item No. 2

Follow up action of the decision of the 78th Meeting of the Board of Governors, IIT Guwahati including those pending from the previous meetings

The Board **CONSIDERED** the follow up action of the decision of the 78th Meeting of the Board of Governors, IIT Guwahati including those pending from the previous meetings and **RESOLVED** as below:

R 79/02/2014: The Board **RESOLVED** that the actions taken on the decisions of the Seventy Eighth Meeting of the Board of Governors held on 27/10/2014 including those pending from the previous meetings be **NOTED** as reported.

Item No. 3

Career progression of Technical Officer in IIT Guwahati

The Board **DISCUSSED** the proposal of a ladder for Career Progression and of generating motivation amongst the Technical Officers in conformity with their qualifications and experience. After a detailed **DELIBERATION** on the proposal,

the Board **RESOLVED** as below:

R 79/03/2014: The Board **RESOLVED** that a report on the various aspects which may arise out of implementation of the proposal be submitted in the next meeting of the Board and till then this item be **DEFERRED**.

Item No. 4

Grant of Non-productivity Linked Bonus (Ad-hoc) to the eligible employees of the Institute for the year 2013-14

The Board **EXAMNIED** the matter of extension of Non-productivity Linked Bonus to all eligible Group 'B' employees (including employees with Grade Pay of ₹4600 and ₹4800) of the Institute in the light of the clarification received from the Ministry of HRD on the matter.

R 79/04/2014: The Board **RESOLVED** that the Non-productivity Linked Bonus (Ad-hoc bonus) for the year 2013-14 be paid to all eligible Group 'B', 'C' and 'D' employees of the Institute.

Item No. 5

Promotion of Mr. Sunil Kr. Barua , Deputy Registrar(Academic Affairs) to the post of Academic Registrar

The Board **DISCUSSED** the proposal of promotion of Deputy Registrar (Academic Affairs) of the Institute, Mr. Sunil Kr. Barua, to the post of Academic Registrar under the Section 12(1) of the Statute which states that "All posts at the Institute shall normally be filled by advertisement; but the Board shall have the power to decide, on the recommendation of the Director that a particular post be filled by invitation or by promotion from amongst the members of the staff of the Institute." The recommendation of the Director is placed at **Annexure – 2**(not enclosed).

R 79/05/2014: The Board **RESOLVED** to create a post of Academic Registrar by keeping fresh recruitment to the post of Deputy Registrar (Academic Affairs) in abeyance.

Further, the Board **RESOLVED** that,

- i) The recommendation of the Director for promotion of Mr. Sunil Kr. Barua, Deputy Registrar (Academic Affairs) under section 12 (1) of the Statute be **APPROVED** and he be appointed to the post of Academic Registrar with Grade Pay of ₹ 10,000/- in the Pay Band-4 i.e. ₹ 37400-67000/- plus all other allowances and benefits as admissible to other employees of the Institute.
- ii) The post of Academic Registrar will be personal to Mr. Sunil Kr. Barua, Deputy Registrar (Academic Affairs) and will automatically cease to exist with his retirement and the post of Deputy Registrar (Academic Affairs) will fall vacant on his retirement.
- iii) The duties and responsibilities of Academic Registrar will be same as those existing for the post of Deputy Registrar (Academic Affairs) and he will report to the Director, Dean of Academic Affairs and the Registrar, as applicable.
- iv) The Promoted Officer will be on probation for a period of one (1) year from the date of joining.
- v) The Promoted Officer may be reverted to the original post at any time for any administrative reason, if felt unavoidable.
- vi) The appointment is under the same terms and conditions as those for the Post of Deputy Registrar which he is holding now plus the above.

Item No. 6

Administrative Approval for construction of two numbers of dormitories for the accommodation of Security Personnel of the Institute.

The Board **CONSIDERED** the proposal for administrative approval for construction of two numbers of dormitories for the accommodation of Security Personnel of the Institute and **RESOLVED** as below:

R 79/06/2014: The Board **RESOLVED** to sanction administrative approval for construction of two numbers of dormitories for the accommodation of Security Personnel of the Institute for an amount of ₹1007.00 lakhs.

Item No. 7

Administrative Approval for extensive repair and renovation of old Guest House.

The Board **CONSIDERED** the proposal for administrative approval for extensive repair and renovation of old Guest House and **RESOLVED** as below:

R 79/07/2014: The Board **RESOLVED** to sanction Administrative Approval for extensive repair and renovation of old Guest House for an amount of ₹371.00 lakhs.

Item No. 8

Ratification of the Approvals Accorded by the Chairman, BOG

The Board **RATIFIED** the following approvals accorded by the Chairman BOG, as below:

(B) Approval to recommendation of the Selection Committee for the post of Registrar.

R 79/08(A)/2014: The Board **RATIFIED** the approval of the Chairman BOG, on the recommendation of the Selection Committee to appoint Mr. Uttam Chandra Das as Registrar of the Institute in the Pay Band-4=₹37400-67000 and Grade Pay=₹10000/- till the end of the month in which he attains the age of 62 years, which is the age of retirement. Further, Mr. Das will be on probation for one year from the date of joining the post.

- (C) **Approval to the increase of age limit in the recruitment rules for the post of Junior Technician/Junior Mechanic/Lab Assistant of the Institute.**

R 79/08(B)/2014: The Board **RATIFIED** the approval of the Chairman on enhancement of upper age limit in the Recruitment Rule of Junior Technician/Junior Mechanic/Lab Assistant from 30 years to 35 years. The new Recruitment Rule (RR) for the same is given as at **Annexure – 3** (Not enclosed).

- (D) **Approval to the recommendations of the Selection Committee for the Faculty position in the Department of Design.**

R 79/08(C)/2014: The Board **RATIFIED** the approval of the Chairman, BOG on the recommendations of the Selection Committees for the post of Faculty positions in the Department of Design as below:

1. Dept. of Design

Sl. No.	Name of the Faculty	Recommended for	Initial Pay (Rs.)
1.	Dr. Utpal Barua	Professor	As per rules
2.	Dr. Pratul Chandra Kalita	Visiting Assistant Professor(Contract for 2 years)	Consolidated pay of ₹.68970/-. He may be given other benefits as applicable to the post.
3.	Dr. Urmi Ravindra Salve	Assistant Professor	Scale: ₹15600-39100/-AGP:7000/-,Initial Pay: Restricted .
4.	Mr. Swaroop Roy	Assistant Professor	Scale: 15600-39100/-AGP: 6000/-. Initial Pay: Restricted .
5.	Mr. Supradip Das	Assistant Professor	Scale:₹15600-39100AGP:₹6000/-Initial Pay: Restricted .
6.	Mr. Abhishek Singh	Visiting Assistant Professor (Contract extended 2 years)	Consolidated salary based on Restricted as applicable as on date, etc.

Item No 9

Items approved by the Director

The Board **NOTED** the items approved by the Director and **RESOLVED** as below:

R79/09/2014: The Board **NOTED** the following items (a to e) approved by the Director:

- a. **Attendance of Conference / Seminar etc. abroad** as reported.
- b. **Appointments and Extension of Dean, Associate Dean / Warden and Associate Warden Positions** as mentioned below:

Sl. No.	Name of the Faculty	Position	Period of Appointment / Extension
1.	Prof. M.Guru Prem Prasad, Department of Mathematics	Dean, Academic Affairs	Appointed for a period three years with immediate effect vide circulation dated 16/12/2014.
2.	Prof. K.Pakshirajan, Department of Biotechnology	Associate Dean of Students' Affairs 1(ADoSA-1)	Appointed for a period of three years with immediate effect vide circulation dated 20/11/2014
3.	Prof. Latha Rangan, Department of Biotechnology	Associate Dean Of Students' Affairs 2 (AdoSA-2)	Appointed for a period of three years with immediate effect vide circulation dated 20/11/2014
4.	Prof. S.R.M.Prasanna, Department of Electronics and Electrical Engineering	Associate Dean of Research and Development(AdoR&D)	Appointed for a period of three years with immediate effect vide circulation dated 20/11/2014.
5.	Dr. Md. Qureshi, Department of Chemistry	Warden, New Boys' Hostel	Appointed with immediate effect till 31/3/2016.
6.	Dr. Pankaj Biswas, Department of Mechanical Engineering	Associate Warden, New BOYS' Hostel	Appointed with immediate effect till 31/3/2016
7.	Dr. Benny George K, Department of Computer Science & Engineering	Associate Warden New Boys' Hostel	Appointed with immediate effect till 31/3/2016
8.	Dr. Swarup Bag, Department of	Associate Warden, Siang Hostel	Appointed with immediate effect till 31/3/2016

	Mechanical Engineering		
9.	Dr. Dipankar Narayan Basu, Department of Mechanical Engineering	Associate Warden, Siang Hostel	Appointed with immediate effect till 31/3/2016
10.	Dr. Rajashree Bedmatta, Department of Humanities and Social Science	Warden, Dhansiri	Appointed with immediate effect till 31/3/2016
11.	Dr. Debasish Das, Department of Biotechnology	Associate Warden, Kameng	Appointed with immediate effect till 31/3/2016
12.	Dr. Senthilmurugan S, Department of Chemical Engineering	Associate Warden, Umiam	Appointed with immediate effect till 31/3/2016
13.	Dr. Tapas Kumar Mandal, Department of Chemical Engineering	Associate Warden, Barak	Appointed with immediate effect till 31/3/2016
14.	Dr. Sougata Karmakar, Department of Design	Associate Warden, Kapili	Appointed with immediate effect till 31/3/2016
15..	Dr. Tony Jacob, Department of Electronics and Electrical Engineering	Associate Warden, Dihing	Appointed with immediate effect till 31/3/2016
16.	Dr. Narayana Reddy, Department of Mechanical Engineering	Associate Warden, Manas	Appointed with immediate effect till 31/3/2016
17.	Dr. Arnab Sarkar, Department of Computer Science & Engineering	Associate Warden, Dhansiri	Appointed with immediate effect till 31/3/2016
18.	Dr. Hemangee Kapoor, Department of Computer Science & Engineering	Associate Warden, Dhansiri	Appointed with immediate effect till 31/3/2016
19.	Dr. Sumana Dutta, Department of Chemistry	Associate Warden, Subansiri	Appointed with immediate effect till 31/3/2016
20.	Dr. Niranjana Sahoo, Department of Mechanical Engineering	Faculty In-charge, Peer Review	Appointed with immediate effect until further order circulated by vide AD/32/98/Vol17/6196 dated 17/12/2014

c. Confirmation of Faculty Members as mentioned below:

Sl. No.	Name of the Faculty	Post at which confirmed
1.	Dr. Jiten Chandra Kalita	Professor, Mathematics
2.	Dr. Guru Prem Prasad	Professor, Mathematics
3.	Dr. K.V.Krishna	Associate Professor, Mathematics
4.	Dr. Gagan Kumar	Assistant Professor, Physics
5.	Dr. Sayan Kumar Chakrabarti	Assistant Professor, Physics
6.	Dr. Amit B.Shelke	Assistant Professor, Civil Engineering
7.	Dr. Senthilmurugan Subbiah	Assistant Professor, Chemical Engineering

d. Confirmation of Non-faculty Members as mentioned below:

Sl. No.	Name of the Employee	Post at which confirmed
1.	Mr. Mrinal Sarmah	Technical Superintendent (GP ₹ 4600/-)
2.	Ms. Sankari Dutta	Junior Superintendent (GP ₹ 4200/-)
3.	Mr. Aditya Kalita	Junior Technical Superintendent (GP ₹4200/-)
4.	Mr. Hemanta Medhi	
5.	Mr. Pranjit Talukdar	

e. Approval to the recommendations of the Selection Committee for Internal recruitment to the various non-faculty posts as mentioned below:**1. Senior Driver**

Sl. No.	Name of the Employee	Post	Scale of Pay
1.	Mr. Bhupen Ch Deka	Senior Driver	PB-2:₹9300-34800, Grade pay=₹4200/-
2.	Mr. Joyram Deka		
3.	Mr. Padmeswar Mirdha		
4	Mr. Hitesh Deka		

5	Mr. Prafulla Kakati		
6.	Mr. Firoj Dewan		

2. Attendant

Sl. No.	Name of the Employee	Post	Scale of Pay
1.	Mr. Bhagya Boro	Attendant	PB-1: ₹5200-20200, Grade pay= ₹1900/-
2.	Mr. Durga Sarma		
3.	Mr. Pankaj Bhuyan		
4	Mr. Santanu Deka		
5	Ms. Fulkumaree Nath		

3. Senior Attendant

Sl. No.	Name of the Employee	Post	Scale of Pay
1.	Mr. Krishna Ram Das	Senior Attendant	PB-1; ₹5200-20200, Grade Pay= ₹2400/-
2.	Mr. Nripen Ch. Kalita		
3.	Mr. Ranjan Patowary		
4.	Mr. Abdul Jabbar		
5.	Ms. Monika Supramhari		
6.	Mr. Shyamanta Das		
7.	Mr. Dibakar Sharma		

4. Library Information Officer

Sl. No.	Name of the Employee	Post	Scale of Pay
1.	Dr. Sanjib Kumar Deka	Library Information Officer	PB2 ₹9300-34800/-, GP = ₹4800/-
2.	Mr. Chandan Kr. Das		
3.	Mr. Pranjit Kumar Thakuria		
4.	Dr. Niraj Barua		
5.	Mr. Deepak Barman**		

** Recommended probation period for two years and performance assessment at every six month interval.

5. Technical Superintendent

Sl. No.	Name of the Employee	Post	Scale of Pay
1.	Mr. Madhurjya Borah	Technical Superintendent	PB-2:₹9300-34800, Grade Pay=₹4600/-
2.	Ms. Queen Barman		
3.	Mr. Dhiren Huzuri		
4.	Mr. K.Kesho Singh		
5.	Mr. Kaushik Gogoi		
6.	Mr. Jayanta Deka		
7.	Mr. Sailendra Pathak		
8.	Mr. Nip Borah		
9.	Mr. Sanjib Sarma		
10.	Mr. Kaustavmoni Deka		
11.	Mr. Jiten Basumatary		
12.	Ms. Rashmi Baruah }**		
13.	Mr. Priya Nanda Saikia }**		
14.	Mr. Aniruddha Gogoi		
15.	Mr. Diganta Kr. Hira		
16.	Mr. Shyamal Kr. Mondal		
17.	Mr. Biswajit Debnath		
18.	Mr. Niranjan Barah		
19.	Mr. Jayanta Kr. Mout		
** For both a) recommended probation for 2 years b) performance to be observed & reported after every six months			

Item No.10

Minutes of the Hundred Ninth and Hundred Tenth meeting of the Senate of the Institute held on 6/8/2014 and 26/8/2014 respectively.

The Board **CONSIDERED** the Minutes of the Hundred Ninth and Hundred Tenth meeting of the Senate of the Institute held on 6/8/2014 and 26/8/2014 respectively and **RESOLVED** as below:

R79/10/2014: The Board **RESOLVED** that the Minutes of the Hundred Ninth and

Hundred Tenth Meeting of the Senate of the Institute held on 6/8/2014 and 26/8/2014 respectively be **NOTED**.

Item No.11

Minutes of the Seventy Fifth Meeting of the Building and Works Committee of the Institute held on 9/7/2014

The Board **CONSIDERED** the Minutes of the Seventy Fifth Meeting of the Building and Works Committee of the Institute held on 9/7/2014 and **RESOLVED** as below:

R79/11/2014: The Board **RESOLVED** that the Minutes of the Seventy Fifth Meeting of the Building and Works Committee of the Institute held on 9/7/2014 be **NOTED**.

Item No. 12

Items reported to the Board

The Board **CONSIDERED** the items reported to the Board and **RESOLVED** as below:

R79/12/2014: The Board **RESOLVED** that the following items as reported to the Board be **NOTED**:

- (A) Appointment of Dr. Anupam Saxena in IIT Guwahati for a period of six months under the inter-IIT Faculty Exchange Scheme.**
- (B) Appointment of Dr. Aynur Ünal as Visiting Professor in the Department of Mechanical Engineering**
- C) Superannuation of Dr. Brajendra Nath Raychoudhury, Registrar on 30/11/2014(AN)**

The Board appreciated the excellent services rendered by Dr. Brajendra Nath Ray Choudhury as Registrar of the Institute during his period from 30/4/2004(A.N) to 30/11/2014 (A.N.) and decided to felicitate him in the next meeting of the Board.

- (D) **Suspension of Prof. Alope Kr. Ghosal , Former Dean of Academic Affairs** with immediate effect following his arrest under section 376(2)(B)/506IPC vide Director's approval under Ref No FA/243/2002/Vol-V/10111 dated 17/12/2014.

Item No.13

Changing of existing name of the "Department of Biotechnology" to "Department of Biosciences and Bioengineering".

The Board **DISCUSSED** the proposal of changing the name of the Department of Biotechnology to Department of Bioscience and Bioengineering as recommended by the Senate and **RESOLVED** as below:

R79/13/2014: The Board **APPROVED** recommendation of the 112th meeting of the Senate held on 1/12/2014 on the proposal for changing the existing name of "Department of Biotechnology" to "Department of Biosciences and Bioengineering" of the Institute.

The Meeting ended with a vote of thanks to the Chair.

(U. C. Das)
Registrar & Secretary
Board of Governors, IIT Guwahati

ANNEXURE-4

No.1-32/2006-U.II/U.I(ii)
Government of India
Ministry of Human Resource Development
Department of Higher Education

New Delhi, dated the 31st December, 2008

To

The Secretary,
University Grants Commission,
Bahadur Shah Zafar Marg,
New Delhi – 110 002.

Subject:- Scheme of revision of pay scales for the posts of Registrar, Deputy Registrar, Assistant Registrar, Controller of Examination, Deputy Controller of Examination, Assistant Controller of Examination, Finance Officer, Deputy Finance Officer and Assistant Finance Officer following the revision of pay scales of Central Government employees on the recommendations of the Sixth Central Pay Commission- regarding.

Sir)

I am directed to say that following the revision of the pay scales of central government employees in pursuance of the recommendations of the 6th Central Pay Commission, the Ministry of Finance (Department of Expenditure) had issued guidelines regarding the pay revision of the employees of Quasi-Government Organisations, Autonomous Organisations and Statutory Bodies etc, set up by and funded/ controlled by the Central Government, vide their O.M. No. 7-23/2008.E.III dated the 30th September, 2008. Taking the relevant factors into consideration, it has been decided by the Central Government to revise the pay scales of the officers of the universities and deemed to be universities fully funded by the Central Government, namely, Registrars, Deputy Registrars, Assistant Registrars, Controllers of Examination, Deputy Controllers of Examination, Assistant Controllers of Examinations, Finance Officers, Deputy Finance Officers and Assistant Finance Officers, as mentioned below. The revision of pay scales, etc. shall be subject to various provisions as contained herein, and Regulations to be framed by the UGC in this behalf.

(1) Registrar /Finance Officer / Controller of Examination

(a) Registrar /Finance Officer / Controller of Examination in the pre-revised scale of pay of Rs.16400-450-20900-500-22400 shall be placed in the Pay Band of Rs. 37400-67000 with a Grade Pay of Rs.10,000, and pay of these officers shall be fixed at the appropriate stage in the Pay Band in accordance with the guidelines issued by the Ministry of Finance, based on the recommendations of the 6th Central Pay Commission as accepted by Central Government. The posts of Registrar/ Finance Officer/ Controller of Examinations shall continue to be filled through direct recruitment as per the existing criteria.

(b) The existing minimum qualifications for direct recruitment to the post of Registrar and equivalent posts shall continue, namely, a Master's Degree with at least 55% of the marks or its equivalent grade of 'B' in the UGC 7 point scale. Consequent on change in designation of teachers vide this Ministry's letter

No.1-32/2006-U.II/U.I(i) dated 31st December, 2008, experience required for the posts of Registrars and equivalent shall be

- (i) at least 15 years' of experience as Assistant Professor in the AGP of Rs.7000 and above or with 8 years' of service in the AGP of Rs.8000 and above including as Associate Professor along with experience in educational administration. **or**
- (ii) Comparable experience in research establishment and/or other institutions of higher education, **or**
- (iii) 15 years of administrative experience, of which 8 years shall be as Deputy Registrar or an equivalent post,

Appropriate regulations shall be issued by the University Grants Commission in this regard.

(c) The age of superannuation, as at present, shall continue to be 62 (sixty two) years for Registrar and equivalent posts.

(ii) Deputy Registrar / Deputy Finance Officer / Dy Controller of Examination

(a) On appointment as Deputy Registrar/ Deputy Finance Officer/ Deputy Controller of Examination, pay shall be fixed in the Pay Band of Rs. 15600-39100 with a Grade Pay of Rs. 7600. They shall move to the Pay Band of Rs. 37400-67000 with a Grade Pay of Rs. 8700, after completing 5 years of service as Deputy Registrar/ Deputy Finance Officer / Deputy Controller of Examination. On moving to the higher Pay Band, they shall continue to be designated as Deputy Registrar/Deputy Finance Officer/Deputy Controller of Examination.

(b) The pay of all incumbent Deputy Registrars/ Deputy Finance Officers/ Deputy Controllers of Examination shall be fixed in the Pay Bands of Rs. 15600-39100 with Grade Pay of Rs. 7600 or Rs. 37400-67000 with Grade Pay of Rs. 8700, as the case may be, depending on length of service in the post; provided that all those who have completed 5 years of service in the pre-revised pay scale of Rs. 12000-18300 as on 1.1.2006 shall be placed at an appropriate stage in the Pay Band of Rs. 37400-67000 with the Grade Pay of Rs. 8700.

(c) The minimum qualifications for direct recruitment to the post of Deputy Registrar and equivalent posts shall be a Master's Degree with at least 55% of the marks or its equivalent grade of 'B' in the UGC 7 point scale; along with-

- (i) Nine years' of experience as Assistant Professor in the AGP of Rs.6000 and above with experience in educational administration, **or**
- (ii) Comparable experience in research establishment and/or other institutions of higher education, **or**
- (iii) 5 years' of administrative experience as Assistant Registrar or in an equivalent post,

The University Grants Commission shall frame appropriate Regulations accordingly.

(d) Teachers appointed to the post of Deputy Registrar and equivalent, shall be entitled to appropriate Grade Pay for these categories of posts, and shall not retain Academic Grade Pay of the teaching post held.

(e) Seventy-five percent of the posts of Deputy Registrar/Deputy Finance Officer/Deputy Controller of Examination, as the case may be, shall be filled by direct recruitment, as at present.

(f) There shall be no change in the designation of Deputy Registrar/equivalent posts on movement to the higher Pay Band from the Pay Band of Rs.15,600 – 39,100 with GP of Rs.7,600.

(g) Twenty-five per cent of the posts of Deputy Registrars/Deputy Controller of Examinations/Deputy Finance Officers shall be filled by promotion from among eligible Assistant Registrars/Assistant Controller of Examinations/Assistant Finance Officers, as the case may be:

(h) The age of superannuation of Deputy Registrar/ Deputy Finance Officer/ Deputy Controller of Examination, shall continue to be 60 (sixty) years as at present.

(iii) Assistant Registrar/Assistant Finance Officer/Assistant Controller of Examination

(a) These posts shall be in the Pay Band of Rs. 15600-39100 with a Grade Pay of Rs. 5400.

(b) The existing minimum qualifications prescribed for direct recruitment for the post of Assistant Registrar and equivalent, which are Master's Degree with at least 55% of the marks or its equivalent grade of 'B' in the UGC 7pt scale along with a good academic record, as laid down by UGC, shall continue to be in force.

(c) All direct recruitment to posts of Assistant Registrar and equivalent posts shall be made as per existing procedure.

(d) The existing pattern of 50% of the posts at this level being filled through promotion from the lower grades shall continue. The minimum educational qualifications mentioned above shall not apply in the case of promotion.

(e) Assistant Registrar and equivalent posts shall be eligible for the higher Grade Pay of Rs. Rs:6600 within the Pay Band of Rs. 15600-39100 after 8 years of service provided, as currently required, they have participated in two training programmes on Education Administration, each, of approximately four weeks' duration and their performance appraisal reports are consistently satisfactory. The higher Grade Pay of Rs.6,600 shall be restricted, as at present, in the case of promotion to senior scale of these posts, to 50% of total strength of Assistant Registrars or their equivalent grades, as the case may be.

(f) Appropriate regulations shall be issued by the University Grants Commission in this regard.

(g) The age of superannuation of Assistant Registrar/Assistant Finance Officer/ Assistant Controller of Examination, shall continue to be 60 (sixty) years as at present.

2. Pay 'fixation formula':

The pay 'fixation formula' recommended by 6th Central Pay Commission as accepted by the Central Government shall be adopted.

3. Date of implementation of revised pay and allowance and payment of arrears:

(i) The revised Pay and revised rates of Dearness Allowance under this Scheme shall be effective from 1.01.2006. The revised rates of all other applicable allowances such as House Rent Allowance, Transport Allowance, Children Education Allowance etc. shall take effect from 1.09.2008.

(ii) Payment of arrears up to 40% of the total arrears shall be made during the current financial year i.e. 2008-09, after deduction of admissible income tax.

(iii) An undertaking shall be taken from every beneficiary under this Scheme to the effect that any excess payment made on account of incorrect fixation of pay in the revised Pay Bands or grant of inappropriate Pay Band/ Academic Grade Pay or any other excess payment made shall be adjusted against the future payments due or otherwise to the beneficiary in the same manner as provided in this Ministry's O.M. No. F.23-7/2008-IFD dated 23.10.2008.

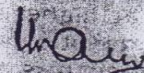
(iv). The revised scales of Pay and applicable allowances including arrears of salary as mentioned above shall be paid to all eligible beneficiaries under this Scheme pending issue of Regulations by the UGC.

3. These orders shall be applicable in all Central Universities and Institutions Deemed to be Universities whose maintenance expenditure is met by the UGC. Universities may be advised to amend their statutes and ordinances in line with the Regulations within three months from the date of issue of this letter.

4. Other terms and conditions shall be governed in accordance with the guidelines issued by the Ministry of Finance (Department of Expenditure) vide OM No. 7-23/2008-E:III dated 30.09.2008, regarding revision of the scales of pay of the employees of all the Autonomous/Statutory Bodies/Institutes. In this connection, this Ministry's letter No. 2-1/2008-U.I(A) dated 6.10.2008 refers.

5. Anomalies, if any, in the implementation of this scheme may be brought to the notice of the Department of Higher Education, Ministry of Human Resource Development, for clarification/decision.

Yours faithfully,



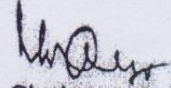
(R.Chakravarty)

Deputy Secretary to the Government of India

Copy to:

1. Vice Chancellors of all Central Universities/ Institutions Deemed to be Universities maintained by the Central Government.
2. Principal Secretary to Prime Minister, South Block, Central Secretariat, New Delhi
3. Secretary (Coordination), Cabinet Secretariat, Rashtrapati Bhavan, New Delhi
4. Secretary, Department of Expenditure, North Block, New Delhi
5. Secretary, Department of Personnel & Training, North Block, New Delhi

6. Secretary, Department of Agriculture Research and Education, Krishi Bhavan, New Delhi.
7. Secretary, Ministry of Health and Family Welfare (Medical Education), Nirman Bhavan, New Delhi.
8. Member Secretary, All India Council for Technical Education, New Delhi
9. Chief Secretaries of all State Governments.
10. Web Master, Ministry of Human Resource Development for publication on the website of the Ministry, hosted by the National Informatics Centre.



(R.Chakravarty)

Deputy Secretary to the Government of India

Name of the Post: Deputy Librarian

No	Heading	Information
1.	CLASSIFICATION	Group A
2.	SCALE OF PAY	PB3 Rs.15600 - 39100, AGP : Rs.8000
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Below 50 years
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	(1) Master's Degree in Library Science/Information Science/ documentation with at least 55% of the marks or equivalent. (2) 5 years' experience in a responsible position in an academic library. (3) Evidence of innovative library service and organisation of published work and professional commitment, computerisation of library.
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	Direct Recruitment
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Assistant Librarian with a minimum 5 years' experience
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Director 2. Dy. Director 3. Registrar 4. Chairman, Library Committee
12.	RESERVATIONS	As per Rules

13.	REMARKS	None
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Name of the Post : Assistant Executive Engineer

No	Heading	Information
1.	CLASSIFICATION	Group A
2.	SCALE OF PAY	PB3 Rs. 15600 - 39100, Grade Pay : Rs 5400
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Below 35 years
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	(1) Bachelor's Degree in Civil Engineering with at least 6 years working experience in design & estimation/supervision of construction of roads & multistoried buildings / maintenance of water supply and sewage system. (2) Bachelor's Degree in Electrical Engineering with at least 6 years working experience in supervision/design/estimation/ maintenance of electrical installations, sub stations, HT and LT distribution systems, internal electrification of buildings, air-conditioning and refrigeration.
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	Direct Recruitment or Deputation (50%), Promotion (50%)
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Senior Assistant Engineer with 5 years' experience Or, Experience of 10 years as Sr. Assistant Engineer and Assistant Engineer taken together.
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	DPC composition: 1. Dean, IPM 2. Assoc. Dean, Institute Works 3. Registrar
12.	RESERVATIONS	As per Rules

13.	REMARKS	None
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Name of the Post : Junior (Technician / Mechanic / Lab Assistant).

No	Heading	Information
1.	CLASSIFICATION	Group C
2.	SCALE OF PAY	PB1 Rs.5200 – 20200, Grade Pay : Rs. 2000
3.	WHETHER SELECTION OR NON-SELECTION POST	Selection
4.	WHETHER BENEFIT OF ADDED YEARS OF SERVICE ADMISSIBLE	Yes
5.	AGE LIMIT FOR DIRECT RECRUITS	Below 35 years
6.	EDUCATIONAL & OTHER QUALIFICATION REQUIRED FOR DIRECT RECRUITS	Bachelor's Degree in appropriate field or Diploma in Engineering of three years duration in appropriate field or ITI with 3 years' experience. Knowledge of computer applications. Department/ Centre will be at liberty to decide on one or more or all the qualifications mentioned above as per the requirement of the job.
7.	WHETHER AGE & EQ PRESCRIBED FOR DIRECT RECRUITS WILL APPLY IN THE CASE OF PROMOTEEES	Not Applicable
8.	PERIOD OF PROBATION, IF ANY	One Year
9.	METHOD OF RECTT. WHETHER BY DIRECT RECTT. OR BY PROMOTION OR BY DEPUTATION /ABSORPTION & % OF THE VACANCIES TO BE FILLED BY VARIOUS METHODS	Direct Recruitment
10.	IN CASE OF RECTT. BY PROMOTION/ DEPUTATION/ ABSORPTION GRADES FROM WHICH PROMOTION/ DEPUTATION/ ABSORPTION TO BE MADE	Not Applicable
11.	IF A DPC EXISTS WHAT IS ITS COMPOSITION	Not Applicable
12.	RESERVATIONS	As per Rules

13.	REMARKS	None
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ANNEXURE -6

Report of the Committee suggesting possible improvements to the career progression of Scientific Officer /Technical Officer in IIT Guwahati :

The committee consisting of the following members as constituted by the Director to look into and recommend possible improvements to the career progression of Scientific Officer /Technical Officer in IIT Guwahati met on 18/07/14 at 02.30pm in the office chamber of the Deputy Director.

- Deputy Director- Chairman
- Prof. S.Dandapat, Dept. of EEE – Member
- Prof. P.S.Robi, Dept. of ME - Member
- Prof. S.Ravi, Dept. of Physics - Member
- Prof. A.K.Sarma, Dept. Of CE - Member
- Registrar – Member
- Deputy Registrar (Admin)- Non-member Secretary

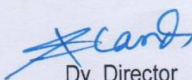
The committee noted that In IITG, the Scientific Officers have been providing technical support to the Departments/Centres and they have been appointed on contract basis (through advertisements and statutory selection committees) due to non availability of sanctioned posts in this cadre. In order to avoid confusion and in consideration of the nature of duties of Scientific Officers (Gr-II & Gr-I), the contractual posts of Scientific Officer (Gr-II & Gr-I) have been arranged for conversion to regular posts of Technical Officer (Gr-II & Gr-I) in the category of technical staff of the Institute based on availability of sanctioned posts for the same. The committee further noted that the Institute has arranged for the said conversion following necessary recruitment process and accordingly selection to the post of Technical Officer Gr.II is undertaken through open /direct recruitment since it is an entry level post, while selection to the post of Technical Officer Gr.I is undertaken through Departmental Promotion Committee (DPC) since it is an intermediate higher post .

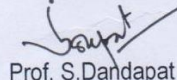
Considering that the Technical Officer posts are "non-academic" for being treated in the category of Technical staff of the Institute, the committee discussed at length to explore ways for possible improvements to the career progression of this cadre. The committee insisted on having a "ladder" (hierarchical order of posts starting with TO Gr.II with GP of Rs.5400/-, TO Gr.I with GP of Rs.6600 and so on till Principal Technical Officer with GP of Rs.10,000).¹The committee was also of the view that the Institute may initiate the process for creation of posts beyond TO -Gr.I, by preparing necessary Recruitment Rules(RR)in this regard.

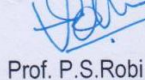
In order to generate motivation amongst the Technical Officers in conformity with their qualification and expertise besides facilitating them with promotional avenues as they gain experience, the following steps have been suggested by the committee. This is proposed over and above the regular duties assigned to the Technical Officers as per their job requirements, subject to acceptance by the Department/ Centres concerned.

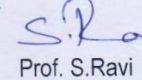
1. TOs with experience of atleast 10 years (5 years in case of having Ph.D.degree) of serving the Institute may be allowed to be BTP Supervisor, MTP/Ph.D Co-Supervisor.
2. TOs may be allowed to be Co-Investigator of a Sponsored /Consultancy Project. TOs with experience of atleast 10 years and having a Ph.D degree may be allowed to be the Principal Investigator of a Sponsored /Consultancy Project.
3. TOs may be allowed to act as a Tutor /laboratory Instructor as per the Department / Center policy.
4. TOs may be provided with necessary travel support in case of attending a Conference/Seminar/Workshop/Symposium within India.This may be allowed from the Department / Center's Account Head.

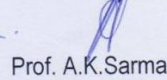
For availing the provisions stated above, TOs will be required to furnish an Undertaking as per enclosed Annexure-I.

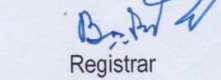

Dy. Director
Prof. S.Nandi


Prof. S.Dandapat
Dept. EEE


Prof. P.S.Robi
Dept. of ME


Prof. S.Ravi
Dept. of Phys


Prof. A.K.Sarma
Dept. of CE


Registrar
Dr.B.N.Raychoudhury

Annexure- I

Undertaking

I do hereby undertake to accept teaching assistance / research options that are given to me over and above the regular official duties assigned to me as per my job requirement. Further, I do hereby declare that I will never claim any incentives from the Institute in future for these additional works.

Signature :

Name :

Emp. No. :

Designation :

Date :

**A proposal on
MASTERS PROGRAMME at CENTRE FOR ENERGY, IIT Guwahati**

The Centre for Energy at IIT Guwahati has been serving as the platform for multi-disciplinary energy research with the activities through sponsored and consultancy research projects implemented by the faculty members from different departments. Currently, the PhD students (regular and project mode) are the primary work force for executing the projects. In order to increase the vibrancy of the R&D work in the centre it is proposed to open a masters' programme in the centre. However, the following points were considered in deciding the type of masters' programme for its practical applicability in the centre:

1. The centre does not have permanent faculty members of its own.
2. There is no long term commitment of the associated faculty members to the centre since their involvement in the centre is project mode.
3. Currently, there is no modality/policy on the proportionately adjusting the teaching load of the associated faculty members in the centre with their respective parent departments.
4. The credit requirement for the current MTech programme is minimum 96 credits, out of which at least 48 credits are through course work and 32 credits are through project work. Hence, around 4 (for credit load of 3-0-0-6) theory courses ought to be offered in each semester for the course work in an MTech programme. The centre already relies upon other departments for fulfilling the entire theory course requirements for the ongoing PhD programme.

Considering the above facts the centre propose to go for **Master of Science by Research in Energy [M.S.(R) in Energy]** programme. The proposed M.S.(R) programme would be distinct from the currently offered MTech programme in the institute in terms of the credit structure where the proposed M.S.(R) programme will have less credit on the theory course and more credit on the project work.

An outline on the proposed M.S. (R) programme

(A) Proposed course structure:

Programme	Credit for Theory course	Theory Courses	Credit for Project*	Total credit
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Current MTech in IITG	Minimum 48	6 to 10 (depending on the credit load of the courses)	Minimum 32	Minimum 96**
Proposed M.S. (R) in the Centre for Energy	36	3 theory courses 1 lab course 4 Seminar courses	66 [Semester 2: 22 credit Semester 3: 22 credit Semester 4: 22 credit]	Minimum 102

* 01 credit/hour

**For current MTech programme: Out of 96 credits, at least 48 credits shall be through course work and 32 credits through research. The minimum credit load per semester is 24.

(B) Proposed Theory courses:

Courses	Credit
Theory course (Core) - 1	3-0-0-6
Theory course (Elective) - 2*	3-0-0-6
Theory course (Elective) - 3*	3-0-0-6
Lab course	0-0-6-6
Seminar Course - I (in 1 st semester)	0-0-3-3
Seminar Course - II (in 2 nd semester)	0-0-3-3
Seminar Course - III (in 3 rd semester)	0-0-3-3
Seminar Course - IV (in 4 th semester)	0-0-3-3

Description of the courses (Please see ANNEXURE):

Theory courses:

* These course could be offered as per following modality:

A common course, “**Renewable Energy Systems**”, has been formulated to offer from the centre. Please see annexure for courses. The respective supervisor may allow his/her student to register for the 2nd and 3rd theory (Elective) courses from other departments as deemed fit for his/her students.

Lab course

This course will teach the **operation and instrumentation** of the equipments in the energy research. The lab course will be designed to offer theoretical and practical knowledge of the key equipments in the respective research areas. Technical officers in the centre will provide training sessions for the individual or group of students along with the help of PhD students as part of their academic duty, under over all supervision of the faculty Supervisors/Instructors.

Seminar courses

Students will present weekly seminar and MS committee will evaluate the presentation twice (immediately prior to midsem and endsem exam) in a semester to finally award the grade.

(C) Number of seats for admission: 14 [Gen – 7, OBC(NCL) – 4, SC – 2, and ST-1]

(D) Minimum Qualification for Admission to MS(R) Programme

MS(R) Programme (Admission with test/interview)	Qualifying Degree	Minimum performance in the qualifying degree for General/OBC (Non-Creamy Layer) category students*	National level examination requirements
Full time: Regular and sponsored	B.E./B.Tech/ M.Sc or equivalent in any discipline	(A) 60% marks or 6.5 CGPA on a 10- point scale or (B) B.Tech. from IITs with a CGPA of 8.0 or above	(A) GATE or NET qualified (B) No GATE required.
Part time: Employees of Public Sector Undertakings or Government Departments or R&D Organizations or Private Industries are eligible	-do-	60% marks or 6.5 CGPA on a 10- point scale	No GATE qualification needed. Minimum one year experience (research /teaching /industrial).
IITG Project Staff: Candidate working on a sponsored project in the Institute	-do-	60% marks or 6.5 CGPA on a 10- point scale	No GATE qualification needed. The remaining duration of the project at the time of admission should be at least one year.

Relaxation /Clarification:

Seat reservation for different category will be as per the standard norms. However, in each category [General, SC, ST, OBC(NCL)], **25% seats may be reserved for the part-time, IITG Project Staff and sponsored candidates with an aim to promote interaction of the centre with the industry/commercial and R&D organizations in the region.** In case unavailability of the part-time, IITG Project Staff and sponsored candidates due to lack of merit/attendance, the seats will be filled up with the other candidates in the categories.

For admission of SC/ST/PD category students, minimum performance in the qualifying degree may be relaxed from 60% to 55% (6.5 to 6.0).

Sponsored (full-time) candidates seeking admission to a MS(R) programme on the basis of study leave, must submit a “Sponsorship certificate” on a proper letterhead from the appropriate authority in the organization.

Part-time candidates are required to submit a “No Objection Certificate” on a proper letter head from the appropriate authority in the organization clearly stating the following:

- The candidate is permitted to pursue studies on a part-time basis
- That his/her official duties permit him/her to devote sufficient time for studies
- That he/she **will not be transferred** to any other place during the period of study

IITG Project Staff candidates are required to submit a “No Objection Certificate” on a proper letter head from the appropriate authority in the organization clearly stating the following:

- The candidate is permitted to pursue studies on a part-time/full-time basis
- That the remaining duration of the project at the time of admission in to the programme shall be at least one year.

Selection of the students will be based on interview

(E)Total tenure of the programme:

The minimum duration of M.S.(R) programmes is **4 semesters (24 months)** with maximum tenure of 6 semesters for full time students and **6 semesters (36 months)** with maximum tenure of 8 semesters for part time students.

(F)Course work flexibility:

Except the seminar courses which are fixed upto the 4th semester one in each semester for both full time and part-time students, the part time category students may be given flexibility to register the theory courses as per their convenience subject to the completion of the theory course work by 4th semester. However, the full time students MUST complete the course work (three theory courses and one lab course) within first two semesters. Both the category of the students may initiate their project work following their registration for the programme as per the advice of the respective supervisors. It is however, suggested to present an open state-of-art seminar on the formulation of the research problem by the students within SIX MONTHS from the date of registration which will be evaluated by a committee (M.S. committee) duly constituted by the respective supervisors and approved by the DOAA. The committee will constantly monitor the progress of the student the way the Doctoral Committee does for the PhD students [The structure and tenure of the committee and other administrative requirements may be prescribed by the institute]. The progress seminar should be given at an interval of every six months from the presentation of state-of-art seminar.

(G) Flexibility on movement from MS(R) to PhD programme

The highly talented and motivated students identified through the M.S. programmes may be allowed to enroll into the PhD programmes of the centre. It may be thus possible for a student to move to a PhD programme in the institute even after completion of the first year in the M.S. (R) programme subject to the recommendation of the respective supervisor(S) and PhD selection committee. However, the candidate must complete the credit requirement for the PhD programme of the institute. The total credit requirement for the movement to the PhD programme may be 52 credits [three theory courses, 18 credit + one lab course, 6 credits + two seminars, 6 credits + credit for the project in the 2nd Semester, 22 credits] with a minimum **CGPA of 8.0**.

(H) Objective of the M.S. (R) programme

The programme will help the candidates to build up the understanding on the energy sector and to develop R&D skills in the energy field. This programme will be ideal for individuals who are from industrial, commercial or government institutions in the areas of energy or related field and who wish to undertake R&D to solve problems in the field of energy and its interlinked areas. Thus, this M.S.(R) programme in the centre may also facilitate the interaction of IITG with industry/Government, commercial and R&D institutes to promote technology or product oriented research for societal needs. The programme of research may involve a literature study, an experimental or/and numerical/modeling phase, an evolution phase perhaps followed by further theory and

experimental studies to finally conclude the study. While, at the same time the investigating faculty members could explore new ideas through the project work of the students and develop solid seed work to be carried forward by the PhD students working in their group and, thus could intensify the research on their topics and promoting advance research in the Centres. The large number of seminar courses being offered in the M.S. (R) programme will rigorously imbibe the students for fast learning in their research field through self-learning process and simultaneously help them to hone the skill on literature survey and technical communications.

(I) The justifications for opening the M.S. (R) programme:

The center for energy has ambitious plan to grow into an energy hub with the state-of-art facility on various facet of energy research. Developing qualified human resource in the field of energy is one of the primary goals in reaching the said objective. The centre needs to focus on the innovation as well as developing professional skill in the energy sector with an aim to build up technology/product/process for fulfilling the immediate societal needs. The centre being located in the NE region also felt the onus of serving the region through suitably formulated outreach programme. The NE region has huge potential for harvesting clean energy from different sources such as, biogas from agricultural and forest biomass, biofuel from renewable carbon sources, hydro-power, solar power, emission free coal technology, biodiesel, energy integration and conservation etc. Through the proposed M.S. (R) programme the aspirant candidates from the region could be motivated not only to pursue energy research but also to initiate entrepreneurship in the field through the professional skill being developed through the programme. The part-time and sponsored registration provision included in the programme may help the candidates working in government/industrial/commercial sectors around this region to pursue the programme. This M.S.(R) programme is also expected to support and strengthen the existing PhD programme of the centre. The findings of the M.S. (R) students will articulate the problem for the PhD students in a group and thereby, extend the scope of fruitful research tenure for the PhD students. This will eventually help the associated faculty members to dig their research work to the deeper realm in their field.

Course Structure

Semester 1					
Course No.	Course Name	L	T	P	C
EN661 (Modified)	Renewable Energy Systems Theory(Core) Course 1	3	0	0	6
XX xxx	Theory (Elective) Course 2	3	0	0	6
XX xxx	Theory (Elective) Course 3	3	0	0	6
EN 663	Operation and instrumentation	1	0	4	6

EN 667	Seminar course I	0	0	3	3
		10	0	7	27

Semester 2					
Course No.	Course Name	L	T	P	C
EN 668	Seminar course 2	0	0	3	3
EN 697	Project 1	0	0	22	22
		0	0	25	25

Semester 3					
Course No.	Course Name	L	T	P	C
EN 669	Seminar course 3	0	0	3	3
EN 698	Project 2	0	0	22	22
		0	0	25	25

Semester 4					
Course No.	Course Name	L	T	P	C
EN 670	Seminar course 4	0	0	3	3
EN 699	Project 3	0	0	22	22
		0	0	25	25
GRAND TOTAL CREDITS					102

ANNEXURE ON COURSES

EXISTING Theory (Core) course - 1 (EN 661)

EN 661 Renewable Energy Systems (3-0-0-6)

Various sources of renewable energy and their systems of; solar thermal conversion devices and storage, applications, solar photovoltaic conversion, biogas generation through aerobic and anaerobic digestion; thermochemical methods of biofuel utilization: combustion and gasification; status of biofuel technology, energy from waste, mini/micro-hydel systems, wave energy and ocean thermal energy conversion, wind energy conversion; hydrogen energy, MHD, thermoelectric, thermionic, thermo-nuclear fusion technology, carbon sequestration.

Texts and References:

1. H. P. Garg and Jai Praksh, *Solar Energy Fundamentals and Applications*, TMH, 2000.
2. Patrick Takahashi and Andrew Trenka, *Ocean Thermal Energy Conversion*, John Wiley, 1994.
3. Charles Y. Wereko-Brobby and Essel B. Hagan, *Biomass Conversion and Technology*, John Wiley, 1997.
4. J F Walker and N Jenkins, *Wind Energy Technology*, John Wiley and Sons, 1997.
5. D. D. Hall and R. P. Grover, *Biomass Regenerable Energy*, John Wiley, 1987.
6. J. Twidell and T. Weir, *Renewable Energy Resources*, E & F N Spon, 1986.
7. T. Jiandong, Z. Naibo, W. Xianhaun, H. Jing, and D. Huishen, *Mini Hydropower*, John Wiley, 1996.
8. Godfrey Boyle, (Ed), *Renewable Energy, Power for a Sustainable Future*. The Open University/Oxford University Press 1996.

PROPOSED MODIFIED Theory (Core)course - 1 (EN 661)**EN 661****Renewable Energy Systems****(3-0-0-6)****Preamble:**

Renewable Energy Systems will be one of the two theory courses to be offered for MS(R) students in the Centre for Energy. This is to note that the students of MS (R) will be from multidisciplinary background. Therefore a theory course comprising of all areas of renewable energy is essential. The proposed course comprises of five key areas: bioenergy, solar energy, hydro-thermal energy, fuel cell and Non-conventional energy. An equal emphasis will be given in each of these five areas to make students familiar with overall renewable energy system.

Course Contents:

Various sources of renewable energy and their systems; Bioenergy: introduction to biofuels, feedstocks for biofuel production, biodiesel, bioethanol, biobutanol, biohydrogen, biogas and biooil, thermochemical methods of biofuel utilization (pyrolysis and gasification), concept of biorefinery; Solar energy: solar thermal conversion devices, storage and applications, solar cell fundamentals, different solar cell technologies, photovoltaic systems, solar assisted heating and cooling systems; Hydro-thermal energy: mini/micro-hydel systems, wave energy and ocean thermal energy conversion; Fuel cell: importance for fuel cell, classification of fuel cells, basic principle, design, materials used for developing fuel cells, applications and future prospects; Non-conventional energy: wind energy conversion, hydrogen energy, MHD, thermoelectric, thermionic, thermo-nuclear fusion technology.

Texts and References:

1. H. P. Garg and Jai Praksh, *Solar Energy Fundamentals and Applications*, TMH, 2000.
2. P. Takahashi and A. Trenka, *Ocean Thermal Energy Conversion*, John Wiley, 1994.

3. C. Y. Wereko-Brobby and E. B. Hagan, *Biomass Conversion and Technology*, John Wiley, 1997.
4. J. F. Walker and N. Jenkins, *Wind Energy Technology*, John Wiley and Sons, 1997.
5. D. D. Hall and R. P. Grover, *Biomass Regenerable Energy*, John Wiley, 1987.
6. J. Twidell and T. Weir, *Renewable Energy Resources*, E & F N Spon, 1986.
7. T. Jiandong, Z. Naibo, W. Xianhaun, H. Jing, and D. Huishen, *Mini Hydropower*, John Wiley, 1996.
8. G. Boyle, (Ed.), *Renewable Energy, Power for a Sustainable Future*, The Open University/Oxford University Press, 1996.
9. R. O. Hayre, S. W. Cha, W. Colella and F. B. Prinz, *Fuel Cell Fundamentals*, Wiley, 2008.
10. B. E. Logan, *Microbial Fuel Cells*, Wiley, 2007.
11. A. Luque and S. Hegedus (Eds.), *Hand book of Photovoltaic Science and Engineering*, 2nd Edn., John Wiley, 2011.

Theory (Elective) courses 2 and 3 :

As the students will be from different disciplines, they can choose the 2nd and 3rd theory (Elective) courses from other departments as deemed fit. A representative list of the course is shown in **Appendix 1**

EN 663 Operation and Instrumentation (1-0-4-6)

Course Contents:

Operation and instrumentation of the equipments involved in the energy research. The course will be designed to offer theoretical and practical knowledge of the key equipments in the field of bioenergy, solar energy, hydrothermal energy, fuel cell and non-conventional energy.

Texts and References:

1. N. Kularatna, *Digital and analogue instrumentation: testing and measurement* , IEEE, London, 2003.
2. G. W. Ewing (Ed.), *Analytical instrumentation handbook* , 2nd Edn., Marcel Dekker, 1997.
3. F. Rouessac and A. Rouessac, *Chemical analysis: modern instrumentation methods and techniques*, 2nd Edn., Jojn Wiley & Sons, 2007.

EN 667 Seminar course I (0-0-3-3)

EN 668 Seminar course II (0-0-3-3)

EN 669 Seminar course III (0-0-3-3)

EN 670 Seminar course IV (0-0-3-3)

Appendix 1

Course No.	Course Title	L - T - P - C
BT 601	Analytical Biotechnology	3 - 0 - 0 - 6
BT 603	Molecular Biophysics	3 - 0 - 0 - 6
BT 604	Enzymology	3 - 0 - 0 - 6
BT 605	Gene Therapy	3 - 0 - 0 - 6
BT 606	Food Biotechnology	3 - 0 - 0 - 6
BT 607	Plant Biotechnology	3 - 0 - 0 - 6
BT 608	Microbial Biotechnology	3 - 0 - 0 - 6
BT 609	Bioprocess Engineering	3 - 0 - 0 - 6
BT 610	Frontiers in Bimolecular Simulation	3 - 0 - 0 - 6
BT 611	Molecular Marker Assisted Breeding in Plants	3 - 0 - 0 - 6
BT 612	Systems Biology	3 - 0 - 0 - 6
BT 613	Plant Molecular Farming	3 - 0 - 0 - 6
BT 614	Fungal Biotechnology	3 - 0 - 0 - 6
BT 616	Molecular Virology	3 - 0 - 0 - 6
BT 617	Concepts and Methods in Proteomics	3 - 0 - 0 - 6
BT 618	Biomaterials	3 - 0 - 0 - 6
BT 619	Essentials of Genetics	3 - 0 - 0 - 6
BT 620	Biosensors	3 - 0 - 0 - 6
BT 621	Advances in Plant Genetic Engineering and Functional Genomics	3 - 0 - 0 - 6
BT 622	Biofuels	3 - 0 - 0 - 6
BT 624	Fluorescence Techniques in Biotechnology	3 - 0 - 0 - 6
BT 628	Metabolic Engineering	3 - 0 - 0 - 6
BT 633	Human Biology and Diseases	3 - 0 - 0 - 6

Course No.	Course Title	L	T	P	C
ME 501	Advanced Engineering Mathematics	3	0	2	8
ME 511	Advanced Materials and Processing	2	0	2	6
ME 512	Mechatronics and Manufacturing Automation	3	0	0	6
ME 513	Physics of Manufacturing Processes	3	0	0	6
ME 514	Computer Integrated Manufacturing	3	0	0	6
ME 515	Manufacturing Laboratory	0	0	6	6
ME 520	Fluid Mechanics	3	0	0	6
ME 522	Convective Heat and Mass Transfer	3	0	0	6
ME 523	Advanced Thermodynamics	3	0	0	6
ME 530	Advanced Mechanics of Solids	3	0	0	6

ME 531	Mechanical Vibration	3	0	0	6
ME 532	Finite Element Methods in Engineering	3	0	0	6
ME 541	Continuum Mechanics	3	0	0	6
ME 542	Numerical Analysis	2	0	2	6
ME 543	Computational Fluid Dynamics	3	0	0	6
ME 544	Computational Mechanics Lab	0	0	2	2
ME 551	Aerodynamics [Modified]	3	0	0	6
ME 553	Gas Dynamics [Modified]	3	0	0	6
ME 602	Computational Fluid Dynamics and Heat Transfer	3	0	0	6
ME 603	Radiative Heat Transfer in Participating Media	3	0	0	6
ME 604	Conduction and Radiation	3	0	0	6
ME 605	Fracture, Fatigue and Failure Analysis	3	0	0	6
ME 606	Solidification Processing	3	0	0	6

ME 607	Introduction to Composite Materials	3	0	0	6
ME 608	Computer Aided Design-Computer Aided Manufacturing	2	0	2	6
ME 609	Optimization Methods in Engineering	3	0	0	6
ME 613	Nonlinear Vibrations	3	0	0	6
ME 614	Random Vibrations	3	0	0	6
ME 615	Rotor Dynamics	3	0	0	6
ME 621	Refrigeration and Air-Conditioning	3	0	0	6
ME 625	Fracture Mechanics	3	0	0	6
ME 626	Aero-acoustics of Exhaust Systems	3	0	0	6
ME 627	Industrial Noise Control	3	0	0	6
ME 632	Condition Monitoring of Machines	3	0	0	6
ME 640	Robotics and Robot Applications	3	0	0	6
ME 643	Material Characterization Methods	3	0	0	6
ME 644	Modern Control	3	0	0	6
ME 645	Mechatronics	2	0	2	6
ME 647	Numerical Prediction of Industrial Fluid Flows	3	0	0	6
ME 648	Viscous Fluid Flow	3	0	0	6
ME 649	Analysis & Identification in Rotor Bearing Foundation Systems	3	0	0	6
ME 650	Gas Turbine Theory	3	0	0	6
ME 651	Numerical Methods for Thermal Radiation Heat Transfer	3	0	0	6

ME 652	Principles of Heat Transfer in Porous Media	3	0	0	6
ME 653	Jet Propulsion	3	0	0	6
ME 654	Wind Energy Conversion	3	0	0	6
ME 655	Energy Conservation and Waste Heat Recovery	3	0	0	6
ME 656	Numerical Simulation and Modelling of Turbulent Flows	3	0	0	6
ME 657	Two-phase Flow and Heat Transfer	3	0	0	6
ME 658	Signal Processing and Model Estimation	3	0	0	6
ME 659	Tribology of Bearings	3	0	0	6
ME 661	Computer Aided Engineering Design	3	0	0	6
ME 662	Combustion	3	0	0	6
ME 664	Theory of Elasticity	3	0	0	6
ME 665	Experimental Stress Analysis	3	0	0	6
ME 666	Plastics Engineering	3	0	0	6
ME 667	Sorption Cooling and Heating Systems	3	0	0	6
ME 669	Thermal Hydraulics in Power Generation Technology	3	0	0	6
ME 670	Advanced Computational Fluid Dynamics	3	0	0	6
ME 671	Biomaterials: Design and Applications	3	0	0	6
ME 672	Welding Science and Technology	3	0	0	6
ME 674	Soft Computing in Engineering	3	0	0	6

Course No.	Course Title	L	T	P	C
EE 562	Fundamentals of VLSI CAD	3	0	0	6
EE 621	Advanced Topics in Random Processes	3	0	0	6
EE 623	Advanced Topics in Signal Processing	3	0	0	6
EE 624	Image Processing	3	0	0	6
EE 625	Computer Vision	3	0	0	6
EE 626	Biomedical Signal Processing	3	0	0	6
EE 627	Speech Signal Processing and Coding	3	0	0	6
EE 628	Speech Technology	3	0	0	6
EE 632	Mobile Communications	3	0	0	6
EE 633	Queuing Systems	3	0	0	6
EE 635	Advanced Topics in Communication Systems	3	0	0	6
EE 636	Detection and Estimation Theory	3	0	0	6
EE 637	Error Control Codes	3	0	0	6
EE 638	Multimedia Security	3	0	0	6
EE 639	Sparse Representations & Compressive Sensing	3	0	0	6
EE 651	Multivariable Control Theory	3	0	0	6

EE 653	Nonlinear Systems and Control	3	0	0	6
EE 657	Pattern Recognition and Machine Learning	3	0	0	6
EE 659	Modeling and Simulation of Dynamic Systems	3	0	0	6
EE 660	Biometrics	3	0	0	6
EE 672	Intelligent Sensor and Actuator	3	0	0	6
EE 673	Synchrophasor Technology	3	0	0	6
EE 674	High Voltage Transmission	3	0	0	6
EE 680	Electric and Hybrid vehicles	3	0	0	6
EE 682	Advanced Electric Drives	3	0	0	6

Course No.	Course Title	L	T	P	C
CL 611	Advanced Process Control	3	0	0	6
CL 612	Colloid and Interface Science	3	0	0	6
CL 613	Computational Fluid Dynamics	3	0	0	6
CL 614	Fluidization Engineering	3	0	0	6
CL 615	Optimization Techniques	3	0	0	6
CL 617	Petrochemicals	3	0	0	6
CL 618	Natural Gas Engineering	3	0	0	6
CL 619	Refinery Process Design	3	0	0	6
CL 620	Nonlinear Bifurcation Analysis	3	0	0	6
CL 621	Fuel Cell Technology	3	0	0	6
CL 622	Molecular Simulation: Principles and Application	3	0	0	6
CL 623	Polymer Science and Technology	3	0	0	6
CL 624	Computing in Chemical and Petroleum Engineering	3	0	0	6
CL 625	Fundamentals of micro-nano fluidics & microfabrication	3	0	0	6

CL 626	Energy Resources	3	0	0	6
CL 627	Multiphase Flow	3	0	0	6
CL 628	Catalysts and Adsorbents	3	0	0	6
CL 629	Membranes	3	0	0	6
CL 630	Composite Materials	3	0	0	6
CL 631	Smart Materials	3	0	0	6
CL 632	Integration of Refinery and Petrochemical Operations	3	0	0	6
CL 633	Applied Statistical Thermodynamics	3	0	0	6

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MASTER OF SCIENCE (BY RESEARCH) ORDINANCES, RULES AND REGULATIONS

1.	All Master of Science by Research [M.S.(R)] programme offered by the Institute shall be governed by the Master of Science (By Research) Rules and Regulations.		
2.	The M.S. (R) rules and regulations shall be applicable to any new discipline(s) under this programme that may be introduced in future.		
3.	A student becomes eligible for the award of the M.S. (R) degree after fulfilling all the academic requirements as prescribed by the M.S. (R) Rules and Regulations.		
4.	The Institute shall have the following M.S. (R) programmes:		
	4.1	M.S. (R) Programme	
		Discipline	Specialization
		Energy	Energy

M.S. (R) RULES AND REGULATIONS

CATEGORIES OF M.S. (R) STUDENTS

1. The Institute admits M.S. (R) students under the following categories:

Regular

A student in this category works full-time for his/her M.S. (R) degree. He/she receives assistantship from the Institute or any other recognized funding agency.

Sponsored

A student in this category is sponsored by a recognized R&D organization, academic institution, government organization or industry for doing M.S. (R) in the Institute on a full-time basis. The Institute does not provide any assistantship to such a student.

IITG Project-Staff

This category refers to a student who is working on a sponsored project in the Institute and is admitted them to M.S. (R) Programme to work on a full-time or part-time basis. The remaining duration of the project at the time of admission should be at least one year. If the project gets completed before the student completes his/her M.S. (R) Programme, his/her category will be converted to PART-TIME Category.

Part-Time

A student in this category is a professionally employed person (employees of public sector undertakings or government departments or R&D organizations or private industries or staff of IIT Guwahati), who pursues the M.S. (R) Programme while continuing the duties of his/her service. The Institute does not provide any assistantship to such a student.

CHANGE OF CATEGORY

2. Change of category from `Regular to Part-Time' is permissible on the following conditions:
 - 2.1. the concerned M.S. (R) student must clear all requirements of the 1st Semester of his/her programme;
 - 2.2 once converted from `Regular' to `Part-Time' category, he/she will not be entitled for receiving any Institute Assistantship; and
 - 2.3 such a student must complete remaining part of the M.S. (R) programme maximum within 4(Four) years from the date of his/her registration in to first semester of the programme, failure to which his/her studentship shall get automatically terminated.

ACADEMIC CALENDAR

- 3.1. Each academic session is divided into two semesters of approximately eighteen weeks duration (with at-least seventy working days for classes in each semester): an odd semester (July -- December) and an even semester (December -- April).
- 3.2. The Senate approved schedule of academic activities for a session, inclusive of dates for registration, mid-semester and end-semester examinations, inter-semester breaks etc shall be laid down in the Academic Calendar for the session.

ADMISSION

4.1. Eligibility Criteria

The details of the eligibility criteria for admission to M.S. (R) programme are given in *Appendix-A*. These criteria are revised by the Senate from time to time.

4.2. Admission Procedure

- 4.2.1. Admission to the M.S. (R) programme of the Institute normally takes place in July every year. Advertisement is issued in February/March.
- 4.2.2. Admission to all categories of students is granted on the basis of GATE Score/NET(JRF)/INSPIRE Certificate/interview/admission test to be held usually during the month of May - July every year.
- 4.2.3. The following documents are to be furnished along with the application by candidates falling under Sponsored and Part-time categories:

Form I: Sponsorship letter for Sponsored category.

Form II: No objection certificate from Dean (R&D), IIT Guwahati, for IITG Project Staff category

Form III: No objection certificate from the employer for Part-time category.

RESIDENCE

- 5.1. The institute is wholly residential and all students shall be required to reside in, and be members of a hostel to which they are assigned. However, students in Sponsored, IITG Project Staff and Part-time categories are exempted from residing in hostel.
- 5.2. Under special circumstances, the Director may permit a student to reside with his/her Parent/Guardian in the Institute Campus or within a reasonable distance from the Institute. However, this permission may be withdrawn at the discretion of the Institute, at any time considered appropriate by it, without assigning any reason.
- 5.3. All students must abide by the rules and regulations of the hostel as may be framed from time to time by the Hostel Affairs' Board.
- 5.4. Students not residing in hostels shall be attached to a hostel for extra-curricular activities.

ATTENDANCE

- 6.1. All students in Regular and Sponsored categories shall be required to sign in attendance register in the department/centre every working day.
- 6.2. For registered courses:
 - 6.2.1. Students are required to attend all the classes (Lectures and lab courses) ;
 - 6.2.2. A student will be debarred from appearing in an end-semester examination if his/her attendance falls in the courses below 75 percent and will be awarded an "F" grade in that course.

ASSISTANTSHIP

- 7.1. Institute assistantships will be available to eligible students as per prevailing norms.
- 7.2. Assistantships from external funding organizations will be available as per terms and conditions of the concerned funding organizations.

- 7.3. Students receiving assistantships from the Institute or fellowships from any other funding agencies are required to perform academic duties as per prevailing norms in force from time to time.
- 7.4. The continuation of the assistantship/fellowship is subject to satisfactory performance of the assigned duties and satisfactory progress of the student in the M.S. (R) Programme.

LEAVE RULES

8.1. Ordinary Leave

A student is eligible for 30 days leave in a year. Saturdays, Sundays or holidays during the leave period are counted towards leave, except for prefixed or suffixed holidays.

Of the 30 days leave, a maximum of 15 days of leave is permitted in a semester. A maximum of 5 days of such leave is allowed to avail at a stretch if student having any teaching assignment.

The maximum number of carried-over leave, from one completed year to another, is 15 days. However, a student can avail accumulated leave up to a maximum of 30 days at a time in a year.

Head of the Department/Centre (HoD/HaC) sanctions leave on recommendation of the Supervisor/Faculty Advisor/DPPC/CPPC Secretary.

8.2. Academic leave

Academic leave is permitted on the following grounds.

- 8.2.1. To attend conferences/seminars/workshops/trainings/short-term courses. A maximum of 10 days of leave is permissible in a calendar year.

A maximum of 20 days of leave in a calendar year is permissible for field trips such as data collection, survey work, etc.

The Head of the Department/Centre sanctions academic leave on recommendation of the Thesis Supervisor/Faculty Advisor/DPPC/CPPC Secretary.

Academic leave exceeding 20 days but up to a maximum of 30 days in a calendar year is approved by the Chairman, IPPC on recommendation of the Thesis Supervisor/Faculty Advisor/DPPC/CPPC Secretary and the HoD/HaC.

- 8.2.2. Academic leave for more than 30 days is not allowed during the semester in which a student is registered for course work.
- 8.2.3. Academic leave of more than 30 days but up to a maximum of 10 months is also permissible to carry out part of the thesis/project work in another institute/R&D Lab/industry/scheme in India or abroad. For sanction of such a leave, a letter of consent from the host organization is required.

On recommendations of the Thesis Supervisor, the DPPC/CPPC secretary, HoD/HaC, and Chairman, IPPC, the Chairman, Senate approves such an academic leave. Such cases are also to be reported to the Senate.

A student granted academic leave for one or more semesters, pays prescribed fees in every semester.

If a registration date falls during the period of academic leave, a student completes the registration procedures at the expiry of his/her academic leave.

CONDUCT AND DISCIPLINE

- 9.1. Students shall conduct themselves within and outside the precincts of the Institute in a manner befitting the students of an institution of national importance. The Institute has a separate ordinance **Code and Conduct of Students** which is applicable to all students of the Institute.
- 9.2. In addition, unauthorized absence for more than one month leads to disciplinary action, in the form of reduction of assistantship or even termination of studentship.

COURSE STRUCTURE

- 10.1. Teaching of the courses shall be reckoned in credits; Credits are assigned to the courses based on the following general pattern:
 - Two credits for each lecture period,
 - Two credits for each tutorial period,
 - Two credits for each studio period,
 - One credit per hour for each Laboratory or Practical or Project/Thesis session.
- 10.2. In order to qualify for a M.S. (R) degree of the institute, a student is required to complete the credit requirement as prescribed in the curriculum for a particular programme. The credit requirements for a programme will be minimum 96 credits. Out of 96 credits, at least 36 credits shall be through course work and 60 credits through research.
- 10.3. A semester load for a full time M.S. (R) student per semester is at least 24 credits. A part-time student should have semester load 12 credits per semester.
- 10.4. Every M.S. (R) Programme will have a curriculum and syllabi for the courses approved by the Senate. DPPC/CPPC will discuss and recommend the syllabi of all the post graduate courses offered by the department/centre from time to time before sending the same to the Institute Postgraduate Programme Committee (IPPC). The IPPC will consider the proposals from the departments/centres and

make recommendations to the Senate for consideration and approval. For all approved courses, the copyright will be with IIT Guwahati.

The composition, tenure and functions of DPPC/CPPC and IPPC, are indicated at *Appendix-B*.

- 10.5. Medium of instruction, examination and project/thesis reports will be in English.
- 10.6. *Faculty Advisor*: To help the students in planning their courses of study and getting general advice on the academic programme, the concerned department will assign a Faculty Advisor to each student. Otherwise, Secretary, DPPC/CPPC will act as faculty advisor till the Thesis supervisor is appointed.
- 10.7. Thesis supervisor: Master's Project/Thesis supervisor (s) for a student will be appointed from amongst the faculty members of the IIT Guwahati.
 - 10.7.1. Departments will evolve modalities for appointing of supervisors keeping in view of the students' aspirations and faculty interest. The DPPC/CPPC will co-ordinate this activity.
 - 10.7.2. No student will have more than two supervisors.
 - 10.7.3. No student once registered for thesis/project units will be allowed to continue the programme without a Thesis Supervisor having been appointed by the DPPC/CPPC.
 - 10.7.4. No change in thesis supervisor(s) will be allowed without the consent of the DPPC/CPPC.
 - 10.7.5. No change/addition of Supervisor (s) is/are allowed after the thesis has been submitted to the academic section.
 - 10.7.6. In case there has been change/addition in the Supervisor(s) the thesis will be submitted not earlier than three months from the date of such change/addition.
 - 10.7.7. With prior approval of the Chairman, Senate on the recommendation of the Chairman DPPC/CPPC and Chairman IPPC, a student may be allowed to have a co-supervisor from outside the institute, in exceptional cases.

REGISTRATION

- 11.1. Every student is required to register for approved courses through the assigned Faculty Advisor/Thesis Supervisor/Secretary DPPC/CPPC at the commencement of each semester on the day fixed for such registration and notified in the Academic Calendar. The Dean Academic Affairs may cancel the registration of one or more courses if they are found to violate some rules or if there are restrictions imposed due to disciplinary reasons.
- 11.2. Only those students will be permitted to register who have :
 - 11.2.1. cleared all Institute, Hostel and Library dues and fines (if any) of the previous semesters,

- 11.2.2. paid all required advance payments of Institute and Hostel dues for the current semester, and
- 11.2.3. not been debarred from registering on any specific ground.
- 11.3. A student who obtains a CPI lower than 5.00 with grade 'DD' in some subjects or grade 'F' in some subjects may be permitted by the Dean of Academic Affairs on the recommendations of the DPPC/CPPC to repeat one or more DD graded subjects along with the failed subjects, provided, the subject(s) is /are being offered therein.
- 11.4. When a student re-registers for a subject, in accordance with clause 11.3 and clause above, his/her new grade will be used for SPI calculation, whereas for CPI calculation, the better of the two grades (the old and the new) of that subject will be considered.
- 11.5. Students may add and drop subject(s) with the concurrence of the Thesis Supervisor/Faculty Advisor/Secretary DPPC/CPPC, and under intimation to the concerned course instructors and the academic section provided this is done within the date mentioned in the Academic Calendar and as per the conditions given in clause 10.3.

DURATION OF THE PROGRAMME

- 12.1. The duration of the M.S. (R) programme is as follows:
 - 12.1.1. The minimum duration of the M.S. (R) programme (excluding dropped semester(s)) is four semesters for full time students and six semesters for part time students from the date of admission.
 - 12.1.2. The maximum duration of the M.S. (R) programme is six semesters for full time students and eight semesters for part time students from the date of admission.

TEMPORARY WITHDRAWAL FROM THE INSTITUTE

- 13.1. A student who has been admitted to a M.S. (R) programme of the Institute may be permitted to withdraw temporarily from the Institute on the grounds of prolonged illness or grave calamity in the family for a period of one semester or more, provided:
 - 13.1.1. he/she applies to the Institute within at least 6 weeks of the commencement of the semester or from the date he last attended his/her classes whichever is later, stating fully the reasons for such withdrawal together with supporting documents and endorsement of his/her guardian;
 - 13.1.2. the Institute is satisfied that, counting the period of withdrawal, the student is likely to complete his/her requirements of the M.S. (R) Degree within the time limits specified in Clause 12.1.2 above;

- 13.1.3. there are no outstanding dues or demands in the Institute/ Hostel /Department/ Library.
- 13.2. A student who has been granted temporary withdrawal from the Institute under the provisions of Clause 13.1 will be required to pay fees/charges (except tuition fees and hostel dues) till such time as his/her name is on the Roll List. However, fees once paid will not be refunded.
- 13.3. A student will be permitted only one such temporary withdrawal during his/her tenure as a student of the M.S. (R) programme.

TERMINATION FROM THE PROGRAMME

- 14.1. A student is required to leave the Institute on the following grounds:
 - 14.1.1. If a student fails to secure a CPI of 5.0 at the end of any semester. However, a student securing a CPI below 5.0 may be allowed to continue in the following semester on the recommendation of DPPC/CPPC and with the approval of IPPC. Subsequently the student will be issued a warning. Students who secure a CPI below 5.0 in two consecutive semesters will not be allowed to continue in the postgraduate programme.
 - 14.1.2. If a student is absent for more than 6 (six) weeks in a semester without sanctioned leave his/her name will be struck off the rolls.
 - 14.1.3. A student may also be required to leave the Institute on disciplinary grounds.
 - 14.1.4. On having been found to have produced false documents or having made false declarations at the time of seeking admission.
 - 14.1.5. On having been found to be pursuing regular studies and/or correspondence courses (leading to degree or diploma) in any other college, university or an educational institution.
 - 14.1.6. For Regular category students, on having found to be concurrently employed and performing duty or carrying out business.

GRADING SYSTEM

- 15.1. Based on the performance of a student, each student is awarded a final letter grade in each subject at the end of the semester. The letter grades and the corresponding grade points are as follows :

<u>Grade</u>	<u>Grade Point</u>
AS	10 (Outstanding)

AA	10 (Excellent)
AB	9
BB	8
BC	7
CC	6
CD	5
DD	4
F	0

In addition, there shall be two transitional grades I and X used by the instructors.

15.2. A student is considered to have completed a subject successfully and earned the credits if he secures a letter grade other than I, X or F in that subject. A letter grade F in any subject implies a failure in that subject.

15.3. The Transitional Grades I and X

15.3.1. The teacher of a subject may award the grade 'I' to a student if the latter was compelled to absent himself from the end semester examination on account of: (i) Illness or accident which disabled him from appearing at the examination. (ii) A calamity in the family at the time of the examination, which, in the opinion of the Institute, required the student to be away from the campus.

A student will be eligible for the award of grade 'I' only if his/her attendance at classes and performance in other components of assessment are complete and satisfactory.

15.3.2. The teacher of a subject may award the grade 'X' to a student if the overall performance of the student in the course is good, but is likely to get grade 'F' based on his/her end semester examination.

15.3.3. All 'I' and 'X' grades awarded by teachers must be converted by them to appropriate letter grades and communicated to the Academic Section (through HoD/HaC) within two days of the respective make up examination. Any outstanding 'I' and 'X' grades two days after the last scheduled make up examination will be automatically converted to an 'F' grade.

15.4. A Semester Performance Index (SPI) will be computed for each semester. The SPI will be calculated as follows:

$$SPI = (C_1 * G_1 + C_2 * G_2 + C_3 * G_3 + \dots + C_n * G_n) / (C_1 + C_2 + C_3 + \dots + C_n)$$

where, n is the number of courses registered during the semester,

C_i is the number of credits allotted to a particular course, and

G_i is the grade points corresponding to the grade awarded for the course.

- 15.5. A Cumulative Performance Index (CPI) will be computed at the end of each semester and communicated to the students along with the SPI and the grades obtained by them for that semester.

The CPI gives the cumulative performance of the student from the first semester up to the end of the semester to which it refers, and will be calculated as follows:

$$\text{CPI} = (C_1 * G_1 + C_2 * G_2 + C_3 * G_3 + \dots + C_m * G_m) / (C_1 + C_2 + C_3 + \dots + C_m)$$

where, m is the number of courses registered upto that semester,

C_i is the number of credits allotted to a particular course, and

G_i is the grade points corresponding to the grade awarded for the course.

Whenever a student repeats or substitutes a course in any semester, the lower grade(s) obtained by him/her in the course is to be ignored in the computation of CPI from that semester onwards.

- 15.6. Both SPI and CPI will be rounded off to the second place of decimal and recorded as such. Whenever these CPI are to be used for the purpose of determining the merit ranking of a group of students, only the rounded off values will be used.
- 15.7. When a student gets the grade 'I' or 'X' for any course during a semester, the SPI for that semester and the CPI at the end of that semester will be tentatively calculated ignoring 'I' and 'X' graded course(s). After conversion of 'I' and 'X' grade(s) to appropriate grade(s), the SPI and CPI for that semester will finally be recalculated after taking the converted grade(s) into account.
- 15.8. The Faculty Advisor/ Secretary DPPC/CPPC/ Thesis Supervisor may permit a student to register for an audit course provided the course instructor allows auditing a course. The word "AU" shall be written alongside the Course Name in the Grade Card. The audit course & the grade "AU" shall not carry any credits and grade points. Pass or fail status will be shown in the grade card as "PP" for passed and "NP" for not passed. However, a student is not required to register again for passing a failed audit course.

ASSESSMENT OF PERFORMANCE

- 16.1. There will be continuous assessment of a student's performance throughout the semester and grades will be awarded by the teacher concerned or the appropriate committee appointed for this purpose on the following basis.
- 16.1.1. In case of
- 16.1.1.1. theoretical subjects, the evaluation will be based on instructors assessment, quizzes, mid semester examination and end semester examination, and
- 16.1.1.2. sessional subjects (LaboratoryDesign/Studio etc.), the evaluation will be on the basis of attendance, assessment of the tasks assigned and end semester test/viva.

- 16.1.2. The evaluation of the project/thesis work will be based on sessional work assigned by the thesis supervisor; seminar, project/thesis report and project/thesis evaluation committees' assessment (mentioned in Clause 16.2 below).
- 16.1.3. In case of other requirements such as seminar, etc., evaluation will be as determined by the grade awarding authority.
- 16.1.4. The mid-semester and end-semester examination will be conducted centrally by the Academic Section of the Institute every semester. Every theory course must have a mid-semester and an end-semester examination. The durations of the examinations will be 2 hours and 3 hours respectively. No course can have an examination of shorter durations. The class-tests or quizzes will be organized by the instructor concerned. However, mid-semester examination can be a take home examination for M.S. (R) courses only.
- 16.1.5. The weightage assigned to different components of assessment will be announced by the concerned instructor(s) in the beginning of the semester.
- 16.1.6. The results of performance of the students in the mid-semester examination shall be announced by the instructors. The instructors should workout following points for returning evaluated mid-semester answer scripts:
 - 16.1.1.1. for spot verification by students, the evaluated answer scripts shall be made available during one of the lecture classes/lab classes/tutorials or during a special session, as may deemed fit by the instructor;
 - 16.1.1.2. at least a week ahead of the notified time-schedule for verification of answer scripts by the students, individual course instructor(s) may display the model answers relating to the question paper, through website for information to the students;
 - 16.1.1.3. students shall point out discrepancies in the evaluation by the instructor, if any, on the spot;
 - 16.1.1.4. after conclusion of the spot verification of answer scripts, the students shall be allowed to carry their answer scripts; and no claim whatsoever shall be entertained afterwards.
 - 16.1.1.5. All instructors should report to their respective HoDs/HaCs about showing of evaluated answer scripts to the concerned students by the stipulated date set for the purpose in the academic calendar.
 - 16.1.1.6. The concerned HoD/HaC in turn shall send their respective reports on the subject to the Dean of Academic Affairs, within 7 (seven) days from the scheduled last date for showing evaluated answer scripts to the students.

- 16.1.7. The final grades for a subject must be submitted after the end-semester examination by the concerned instructor(s) to their HoD/HaC for onward transmission to the Deputy/Assistant Registrar (Academic) within the date stipulated in the academic calendar.

16.2. Evaluation of M.S. (R) Project/Thesis:

- 16.2.1 The project/thesis work is in two/three stages, each spread over a semester. At the end of the every stages (excluding final stage), the student is required to submit a report of his/her work by a prescribed date to the Secretary, DPPC/CPPC and present it to an Internal Project/Thesis Evaluation Committee. After passing of any stage, the subsequent stage of the work is continued in the following semester.
- 16.2.2 Those who fail in any stage assessment will be required to re-register for that stage in the following semester.
- 16.2.3 The procedure for submission of M.S. (R) **last stage** Project/Thesis and conduct of oral examination are as follows.
- 16.2.3.1 The thesis supervisor(s) shall be satisfied that the work has been completed. The supervisor(s) shall forward a list of examiners (comprising of at least two faculty members from the department, in addition to the supervisor(s) and one member from outside the department or an external expert) through the Secretary, DPPC/CPPC to HoD/HaC.
- 16.2.3.2 The HoD/HaC will then forward the list of examiners to the Chairman IPPC for the approval at least 15 days before submission of the thesis.
- 16.2.3.3 Following the approval, unbound copies of the thesis (one each for every examiner) shall be submitted to the Department at least one week before probable date of the examination.
- 16.2.3.4 The supervisor(s) will fix the date of oral examination; make an announcement (through notices and e-mail) and forward unbound copies of thesis to the examiners. The date of oral examination shall be communicated to the academic section.
- 16.2.3.5 The oral examination of a M.S. (R) Project/Thesis shall be held as per announced schedule and it shall be an open one.
- 16.2.3.6 The Supervisor/Secretary, DPPC/CPPC (if Supervisor is not available at the time of oral examination) shall be the convener of the oral examination committee. The committee shall evaluate the project/thesis of the candidate on the basis of presentation of the report, originality of the contents therein, demonstration of equipment model/hardware/software developed, the oral presentation and oral examination. In case the committee recommends a major revision and recommends a re-examination of the project/thesis, Grade "I" shall be

awarded and the student shall be required to continue the project/thesis and resubmit the thesis within a period of two months. In case the committee rejects the thesis, Grade "F" shall be awarded and the student shall be required to re-register for the last stage project/thesis in the subsequent semester. The grade to be awarded to a student shall be evolved by the committee by consensus. The report of the oral examination committee including the grade shall be submitted to the Secretary, DPPC/CPPC by the committee.

- 16.2.3.7 On successful completion of Oral Examination, each student shall submit bound copies of the thesis making corrections, if any, suggested by the examiners (one each to the supervisor(s) and the department) and an electronic copy to the department. Student shall obtain approval of the supervisor(s) before submitting the corrected version of the bound thesis.

Secretary, DPPC/CPPC shall forward the report of the oral examination committee along with the grade to the Dean of Academic Affairs only on receipt of the bound thesis and an electronic copy from a student. All M.S. (R) Project/Thesis reports of a batch of students will be copied on a CD for archival purpose and deposited to the Central Library.

- 16.2.4 The last stage project/thesis work can be extend upto last date for I and X graders conversion as mentioned in the academic calendar of that semester.

- 16.2.5 Non-evaluation of any stage project/thesis within stipulated time, "F" grade will be awarded automatically and the student shall be required to re-register for that stage of project/thesis in the subsequent semester.

METHOD OF AWARDING LETTER GRADES

- 17.1. The instructor(s) shall submit two copies of letter grades to the concerned HoD/HaC by the due date specified in the Academic Calendar. The HoD/HaC will forward all grades to the Academic Section by the due date specified in the Academic Calendar.
- 17.2. End-semester examination answer scripts and the sheet containing details of marks converted to grades shall be preserved by the instructor(s) concerned for a period of one semester.
- 17.3. Changes in **Grades Already Awarded**: If a student feels that he/she has not been awarded a deserving grade in a course, he/she may request the instructor of the course within one week of the start of the next semester, to show him/her the end-semester answer script in order to ensure that all the questions have been evaluated properly. In case of any change in grade, the same with due justification has to be communicated by the Instructor to the Dean of Academic

Affairs through the HoD/HaC. However, M.S. (R) project/thesis grades change are not permitted.

EXAMINATION

- 18.1. In assessing the student's attainment in subjects (like Theory, Laboratory, Studio and Sessional), seminars, project/thesis work etc., the system of continuous assessment is adopted by the Institute. In conformity with this practice, there will be one mid semester examination and an end semester examination for every theoretical subject -- in addition to the instructors' assessment and quizzes etc.
- 18.2. A student may be debarred from appearing in the end semester examination due to the following reasons:
 - 18.2.1. If any disciplinary action is taken against him/her.
 - 18.2.2. On recommendation of a instructor, if
 - 18.2.2.1. his/her attendance in the Lecture/Practical classes has not been satisfactory during the semester, and/or,
 - 18.2.2.2. his/her performance in the sessional work done during the semester has been unsatisfactory.

MAKE-UP EXAMINATIONS

- 19.1. Students who have missed an end-semester examination on valid reasons and have been awarded "I" grade are eligible for a make-up examination. They should make an application to the Dean of Academic Affairs through the Instructor/HoD/HaC within seven days from the date of the examination missed explaining the reasons for their absence.
- 19.2. Official permission to take a make-up examination will be given under exceptional circumstances such as admission to a hospital due to illness and a calamity in the family at the time of examination. Students residing in the hostels should produce a medical certificate issued by the Institute Medical Officer only. Students who are permitted to stay outside the campus or who have been authorized to be away from the Institute should produce a medical certificate from a Medical Officer not below the rank of a Civil Surgeon and endorsed by the Institute Medical Officer. Certificates from private medical practitioners will not be accepted. The Dean of Academic Affairs can use his/her discretion in giving permission to a student to take a make-up examination.
- 19.3. No make-up examination will be scheduled for the mid-semester examination and quizzes. It is entirely upto the instructor to ascertain the proficiency of the student by whatever means considered appropriate to him/her if he/she is satisfied of the bonafides of the case.

19.4. Students who are awarded "X" grade by the teachers are also eligible for the make-up examination.

19.5. Make-up examination will be held as per dates notified in the Academic Calendar. Make-up examinations at any other time can be held only with the permission of the Dean of Academic Affairs.

WITHHOLDING OF GRADES

20.1. Grades shall be withheld when the student has not paid his/her dues or when there is a disciplinary action pending against him/her.

ELIGIBILITY FOR THE AWARD OF M.S. (R) DEGREE

21.1. A student shall be declared to be eligible for the award of M.S. (R) degree if he/she has :

21.1.1. completed all the credit requirements for the degree with grade a "DD" or higher grade in each of the subjects (Theoretical, Laboratory, Studio, Sessional etc), Seminar, Project/Thesis etc;

21.1.2. obtained a CPI of 5.00 or more at the end of the semester in which he/she completes all the requirements for the degree;

21.1.3. no dues to the Institute, Department, Hostels; and

21.1.4. no disciplinary action is pending against him.

21.2. The award of M.S. (R) degree must be recommended by the Senate and approved by the Board of Governors of the Institute.

APPENDIX – A

ELIGIBILITY CRITERIA FOR ADMISSION INTO MS(R) PROGRAMME

The details of the eligibility criteria (i.e. minimum qualifications and experience) for admission to M.S. (R) programme are given in this appendix. The Senate reviews the same for admission to the M.S. (R) programme from time to time. Relaxation in academic qualification for reserved categories of students is as per Government of India guidelines.

MINIMUM QUALIFICATIONS

A.1 Minimum qualifications for M.S. (R) programme

A.1.1 A Minimum CPI of 6.5 in a 10-point scale or 60% of marks or First Class in B.E/B.Tech/M.Sc or equivalent **in any discipline** along with a valid GATE score or NET/INSPIRE qualified.

Or

A.1.2 B Tech degrees **in any discipline** from an IIT with a minimum CPI of 8.0 or above in which case GATE score is not mandatory.

A.1.3 For Sponsored/Part-Time/IITG Project-staff category, GATE score or NET/INSPIRE etc. are not required.

A.2 MINIMUM EXPERIENCE FOR SPONSORED AND PART-TIME CATEGORIES

A.2.1 Candidate in Sponsored and Part-time categories must be a regular employee of the sponsoring organization/industry with at least **one year** of professional experience (research/teaching/industrial) in the respective field.

FORM I -SPONSORSHIP LETTER

(This should be typed on the letter head of the sponsoring organisation)

Reference No..

Date

To,
The Director
Indian Institute of Technology Guwahati

Sub : Sponsoring an Employee for M.S. (R) Programme

Dear Sir,

We hereby sponsor the candidature of Mr./ Mswho is an employee in our organization, for joining M.S. (R). Programme inat your Institute as a full-time student.

It is certified that he/she has completed **1(One) year** of service in our organization/ institute as a regular employee.

It is also certified that he/she will not be transferred while pursuing M.S. (R) programme at IIT Guwahati.

Further, we shall relieve him/her of his/her duties in the organisation during the two years of the M.S. (R) programme.

Sponsoring Authority
Seal & Signature

Form II - No-Objection Certificate for IITGuwahati Project Employee

Indian Institute of Technology Guwahati

Reference No..

Date

The
Director
Indian Institute of Technology Guwahati

Sub : No-Objection Certificate

Dear Sir,

We have no objection if Mr./Mrs.....an employee in our organisation, is admitted to the M.S. (R). Programme inat your Institute as a full-time/part-time student.

It is certified that, the remaining duration of the project at the time of his/her admission will not be less than one year (i.e. the Project will continue up to).

We shall give him/her leave of absence to attend class work at IIT- Guwahati during two years of the M.S. (R). Programme .

Designated Authority
Seal & Signature

Form III - No-Objection Certificate for Part-time category

(This should be typed on the letter head of the sponsoring organisation)

Reference No..

Date

To,
The Director
Indian Institute of Technology Guwahati

Sub : No-Objection Certificate

Dear Sir,

We have no objection if Mr./Mrs.....an employee in our organisation, is admitted to the M.S. (R). Programme inat your Institute as a part-time student.

It is certified that he/she has completed **1(One) year** of service in our organization/ institute as a regular employee.

It is also certified that he/she will not be transferred while pursuing M.S. (R) programme at IIT Guwahati.

Further, we shall give him/her leave of absence to attend class work at IIT- Guwahati during two years of the M.S. (R) Programme.

Signature and seal of the
Sponsoring Authority

APPENDIX-B

DEPARTMENTAL/CENTRE POSTGRADUATE PROGRAMME COMMITTEE (DPPC/CPPC)		
Composition :		
(i)	Head of the Department/Centre	Chairman
(ii)	Six faculty members to be nominated by the Head of which one will be nominated by the Head as the member secretary.	Members
(iii)	One faculty member from outside department. The department will be chosen by the committee. The faculty member from the chosen department/centre will be nominated by the HoD/HaC of that department/centre.	Member
(iv)	For a department/centre, one student with CPI not less than 7.5 to be elected by the M.S. (R) students and one student to be elected by the Ph D students of the 2 nd years (or higher).	Members
Tenure :		
Two years for faculty members and one year for student members.		
Functions :		
(i)	To oversee the conduct of all postgraduate courses of the department/centre.	
(ii)	To ensure academic standard and excellence of the courses offered by the department/centre.	
(iii)	To discuss and recommend the syllabi of all the postgraduate courses offered by department/centre from time to time before sending the same to the Institute Postgraduate Programme Committee (IPPC).	
(iv)	To consider any matter related to the postgraduate programme of the department/centre.	
INSTITUTE POSTGRADUATE PROGRAMME COMMITTEE (IPPC)		
Composition :		
(i)	Dean of Academic Affairs (ex-officio)	Chairman
(ii)	DPPC/CPPC Secretaries of all departments/centres.	Members
(iii)	DR (Academic) or AR (Academic)	Non-Member Secretary
Tenure : Two years.		
Functions :		
(i)	To oversee the conduct of all postgraduate courses of the Institute.	
(ii)	To consider the proposals from the departments/academic centres and make recommendations to the Senate for consideration and approval.	
(iii)	To issue guidelines to various departments/academic centres on evaluation pattern of the courses/projects/thesis to maintain uniformity.	
(iv)	To consider and recommend the assessment procedure to be adopted by various departments/academic centres.	
(v)	To consider and recommend any other matter concerning the postgraduate programme of the Institute.	

**DEPARTMENT OF ELECTRONICS AND ELECTRICAL
ENGINEERING
PROPOSAL
FOR INTRODUCTION OF
DUAL [MS (Eng.) + PHD] DEGREE**

PREAMBLE:

The Department of Electronics and Electrical Engineering of Indian Institute of Technology Guwahati (IITG) currently offers Ph.D. degree programme for graduates from Electronics / Electrical Engineering or equivalent. To expand the scope of research focus of the department into interdisciplinary areas, bright graduates from other disciplines are desirable. To enable bright graduates from other areas to study and carryout research in different and interdisciplinary areas of electronics and electrical engineering, the department desires to offer Dual [MS (Eng.) + PhD] degree in Electronics and Electrical Engineering. Due to varied academic background, the selected graduates need a rigorous course work. The employability chances of the successful candidates may get enhanced due to the dual MS and PhD degrees. The dual degree may also attract more candidates not only from other disciplines, but also from the Electronics / Electrical Engineering or equivalent.

CATEGORIES OF STUDENT:

REGULAR

A student in this category works full-time for his/her Dual [MS (Eng.) + PhD] degree. He/she receives assistantship from the Institute or any other recognized funding agency.

ADMISSION

ELIGIBILITY CRITERIA

The details of the eligibility criteria (i.e. minimum qualifications and experience) for admission to Dual [MS (Eng.) + PhD] degree programme are given below. The Senate reviews the same from time to time. Relaxation in academic qualification for reserved categories of students is as per Government of India guidelines.

MINIMUM QUALIFICATIONS

- Bachelor's degree in Engineering/Technology **in any area** or equivalent with a minimum CPI of 7.5 or 70% of marks.
- A valid GATE score in any subject.

- If the qualifying BE/BTech degree is from IIT or a Centrally Funded Technical Institute (CFTI), the valid GATE score is exempted provided the minimum CPI is 8.0 or 75% of marks.
- A regular student of IIT Guwahati who is continuing his/her MTech studies and having a minimum CPI of 8.0 at the end of second semester may be enrolled in the Dual [MS (Eng.) + PhD] programme of the Department in the beginning of his/her third semester of study. Such students can receive only MS [(Eng.) + PhD] Degree.

ADMISSION PROCESS

Admission to the Dual [MS (Eng.) + PhD] degree programme of the Institute normally takes place in July every year. Advertisements are issued in February/March.

Admission to all categories of students is granted on the basis of GATE Score plus admission test and interview held usually during the month of May - July every year.

COURSE WORK

A student is required to complete a minimum of 12 courses with minimum aggregate of 72 credits. Among the 12 courses, a minimum of 6 courses with minimum aggregate of 36 credits by taking the courses offered from the department of Electronics and Electrical Engineering.

The Supervisor / Secretary DPPC / Faculty Advisor will prescribe the set of courses to be completed by the student.

If the student desires to carryout research work in an interdisciplinary area, then courses are prescribed accordingly by the Supervisor / DPPC Secretary / Faculty Advisor. In such a case also, the student has to complete a minimum of 6 courses with minimum aggregate of 36 credits by taking the courses offered from the department of Electronics and Electrical Engineering.

DURATION OF THE PROGRAMME

The duration of the Dual MS [(Eng.) + PhD] degree programme is as follows:

The minimum duration of the MS [(Eng.) + PhD] degree programme (excluding dropped semester(s)) is six semesters from the date of admission.

The maximum duration of the MS [(Eng.) + PhD] degree programme is seven years from the date of admission.

AWARD OF DUAL MS [(Eng.) + PhD] DEGREES

After successful completion of the *Viva Voce*, the student will be awarded the MS (Eng.) and PhD degrees together. The MS degree (.Eng.) will be retroactive from the date of the completion of the SOAS.

The award of Dual MS [(Eng.) + PhD] degrees in Electronics & Electrical Engineering must be recommended by the Senate and approved by the Board of Governors of the Institute.

AWARD OF M.S.(ENG.) DEGREE ONLY

The goal of the proposed Dual MS [(Eng.) + PhD] is to attract bright candidates after graduation for PhD program and whoever completes the program successfully is awarded both MS (Eng.) and PhD Degrees. Awarding only MS (Eng.) degree is not the objective of the program and hence this option is invoked only in the rarest of rare cases as observed by the Doctoral Committee (DC). After the successful completion of the course work, comprehensive examination and SOAS by the student, and at least one annual progress review of research work, should the DC feel that the progress of the student is not satisfactory, it may recommend termination from the programme. The minimum duration for the same is four years. The DC will recommend submission of MS (Eng.) Thesis based on the progress made and also in consultation with the supervisor, suggesting the volume of work to be completed for the MS (Eng.) Thesis. The student will submit MS (Eng.) thesis and defend the same. The procedure for the submission of MS (Eng.) Thesis and conduct of oral examination are as per relevant Clauses of M.Tech./M.Des. Ordinances, Rules and Regulations. In that case, student will receive only the MS (Eng.) degree and leave the programme; and the MS (Eng.) degree in Electronics and Electrical Engineering will be effective from the date of leaving the programme. This must be recommended by the Senate and approved by the Board of Governors of the Institute.

PROPOSED INTAKE

Max of 20 seats for Dual MS [(Eng.) + PhD] from the sanctioned PhD seats to the Dept of EEE. The selection process is planned along with the PhD admission. Accordingly, if enough number of suitable candidates are not found for proposed Dual degree, then the left out seats will be taken for PhD admission.

Courses:

MTech core courses, Elective courses from the department and other departments, depending on the area of research work.

Course Structure

Semester - I

At least Four Courses with a minimum aggregate of 24 credits among EE 5xx /
--

EE 6xx / XX 5xx / XX 6xx courses.					
Course No.	Course Name/Type	L	T	P	C
EE 5xx / EE 6xx	Elective - 1	3	0	0	6
EE 5xx / EE 6xx	Elective - 2	3	0	0	6
XX 5xx / XX 6xx	Elective - 3	3	0	0	6
XX 5xx / XX 6xx	Elective - 4	3	0	0	6
		12	0	0	24
Semester - II					
At least Four Courses with a minimum aggregate of 24 credits among EE 5xx / EE 6xx / XX 5xx / XX 6xx courses.					
Course No.	Course Name/Type	L	T	P	C
EE 5xx / EE 6xx	Elective - 5	3	0	0	6
EE 5xx / EE 6xx	Elective - 6	3	0	0	6
XX 5xx / XX 6xx	Elective - 7	3	0	0	6
XX 5xx / XX 6xx	Elective - 8	3	0	0	6
		12	0	0	24

Semester - III					
At least Four Courses with a minimum aggregate of 24 credits among EE 5xx / EE 6xx / XX 5xx / XX 6xx courses.					
Course No.	Course Name/Type	L	T	P	C
EE 5xx / EE 6xx	Elective - 5	3	0	0	6
EE 5xx / EE 6xx	Elective - 6	3	0	0	6
XX 5xx / XX 6xx	Elective - 7	3	0	0	6
XX 5xx / XX 6xx	Elective - 8	3	0	0	6
		12	0	0	24

	<p>List of Courses:</p> <ol style="list-style-type: none"> 1. All EE 5xx courses of the MTech program of the Dept of EEE. 2. All EE 6xx elective courses offered from the Dept of EEE. 3. All XX 5xx / XX 6xx courses offered from the other departments of the institute.
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**DUAL [MS (ENG.) + PHD] DEGREE
ORDINANCES, RULES AND REGULATIONS
for Department of Electronics and Electrical Engineering**

PREAMBLE

The Indian Institute of Technology Guwahati (IITG) through the Department of Electronics and Electrical Engineering currently offers PhD degree programme for graduates from Electronics / Electrical Engineering or equivalent. To expand the scope of research focus of the department into interdisciplinary areas, bright graduates from other disciplines are desirable. To enable bright graduates from other areas to study and carry out research in different and interdisciplinary areas of electronics and electrical engineering, the department decided to offer Dual [MS (Eng.) + PhD] degree in Electronics and Electrical Engineering. Due to varied academic background, the selected graduates need a rigorous course work. The employability chances of the successful candidates may get enhanced due to the dual MS and PhD degrees. The dual degree may also attract more candidates not only from other disciplines, but also from the Electronics / Electrical Engineering or equivalent.

**DUAL [MS (ENG.) + PHD] DEGREE
ORDINANCE
for Department of Electronics and Electrical Engineering**

1	The Indian Institute of Technology Guwahati awards the Dual Master of Science (MS) plus Doctor of Philosophy (PhD) degree in Electronics and Electrical Engineering to a candidate who successfully completes the stipulated programme of course work and research.
2	The Dual [MS (Eng.) + PhD] degree programme to be offered by the Department of Electronics and Electrical Engineering of the Institute shall be governed by the Dual [MS (Eng.) + PhD] degree Rules and Regulations for Department of Electronics and Electrical Engineering.
3	A candidate to be awarded with the Dual [MS (Eng.) + PhD] degree in Electronics and Electrical Engineering has to submit a thesis embodying the findings of his/her research carried out under this programme after rigorous course work in the first three semesters. The thesis should make an original contribution of high quality to the advancement of knowledge as to be judged by the experts in the relevant area.
4	A student becomes eligible for the award of the Dual [MS (Eng.) + PhD] degree in Electronics and Electrical Engineering, after fulfilling all the academic requirements as prescribed by the Dual [MS (Eng.) + PhD] Degree Rules and Regulations for Department of Electronics and Electrical Engineering.

**DUAL [MS (ENG.) + PHD] DEGREE
RULES AND REGULATIONS
for Department of Electronics and Electrical Engineering**

CATEGORY OF STUDENT

The Institute admits students only in following category.

1.1	REGULAR
	A student in this category works full-time for his/her Dual [MS (Eng.) + PhD] degree. He/she receives assistantship from the Institute or any other recognized funding agency.

ACADEMIC CALENDAR

2.1	Each academic session is divided in to two semesters of approximately eighteen weeks duration (with at least seventy working days for classes in each semester): an odd semester (July -- December) and an even semester (December -- April).
2.2	The Senate approved schedule of academic activities for a session, inclusive of dates for registration, mid-semester and end-semester examinations, inter-semester breaks etc, shall be laid down in the Academic Calendar for the session.

ADMISSION

3.1	ELIGIBILITY CRITERIA
	The details of the eligibility criteria for admission to Dual [MS (Eng.) + PhD] degree programme is given in Appendix-A . These criteria are revised by the Senate from time to time.

3.2	ADMISSION PROCEDURE
3.2.1	Admission to the Dual [MS (Eng.) + PhD] degree programme of the Institute normally takes place in July every year. Advertisements are issued in February/March.
3.2.2	Admission to all categories of students is granted on the basis of GATE Score plus admission test and interview held usually during the month of May - July every year.

RESIDENCE

4.1	The institute is wholly residential and all students shall be required to reside in, and be members of a hostel to which they are assigned.
4.2	Under special circumstances, the Director may permit a student to reside with his/her Parent/Guardian in the Institute Campus or within a reasonable distance from the Institute. However, this permission may be withdrawn at the discretion of the Institute, at any time considered appropriate by it, without assigning any reason.
4.3	All students must abide by the rules and regulations of the hostel as may be framed from time to time by the Hostel Affairs' Board.

4.4	Students not residing in hostels shall be attached to a hostel for extracurricular activities.
ATTENDANCE	
5.1	All students shall be required to sign in attendance register in the department every working day.
5.2	For registered courses:
5.2.1	Students are required to attend all the classes (Lectures, Studios, Practical etc);
5.2.2	A student will be debarred from appearing in an end-semester examination if his/her attendance in the courses falls below 75 percent and will be awarded an "F" grade in that course.

ASSISTANTSHIP	
6.1	Institute assistantships will be available to eligible students as per prevailing norms.
6.2	Assistantships from external funding organizations will be available as per terms and conditions of the concerned funding organizations.
6.3	Students receiving assistantships from the Institute or fellowships from any other funding agencies are required to perform academic duties as per prevailing norms in force from time to time.
6.4	The continuation of the assistantship/fellowship is subject to satisfactory performance of the assigned duties and satisfactory progress of the student in the Dual [MS (Eng.) + PhD] degree programme.

LEAVE RULES	
7.1	Ordinary Leave
	<p>A student is eligible for 30 days leave in a year. Saturdays, Sundays or holidays during the leave period are counted towards leave, except for prefixed or suffixed holidays.</p> <p>Of the 30 days leave, a maximum of 15 days of leave is permitted in a semester. A maximum of 5 days of such leave is allowed to avail at a stretch if student having any teaching assignment.</p> <p>The maximum number of carried-over leave, from one completed year to another, is 15 days. However, a student can avail accumulated leave up to a maximum of 30 days at a time in a year.</p> <p>The Head of the Department (HoD) sanctions leave on recommendation of the Supervisor/Faculty Advisor/DPPC Secretary.</p>
7.2	Maternity/Paternity Leav
	<p>A student is eligible for 6 months maternity leave or 15 days of paternity leave as applicable only once during the Dual [MS (Eng.) + PhD] degree programme.</p> <p>The HoD sanctions maternity/paternity leave on recommendation of the Supervisor/Faculty Advisor/DPPC Secretary and submission of a certificate from Senior Medical Officer /Medical Officer of the institute.</p>

7.3	Academic leave
	Academic leave is permitted on the following grounds.
7.3.1	<p>To attend conferences/seminars/workshops/trainings/short-term courses. A maximum of 15 days of leave is permissible in a calendar year.</p> <p>A maximum of 30 days of leave in a calendar year is permissible for field trips such as data collection, survey work, etc.</p> <p>The Head of the Department sanctions academic leave on recommendation of the Thesis Supervisor/Faculty Advisor/DPPC Secretary.</p> <p>Academic leave exceeding 30 days but up to a maximum of 60 days in a calendar year is approved by the Chairman, IPPC on recommendation of the Thesis Supervisor/Faculty Advisor/DPPC Secretary and the HoD.</p>
7.3.2	Academic leave for more than 30 days is not allowed during the semester in which a student is registered for course work.
7.3.3	<p>Academic leave of more than 60 days but up to a maximum of 12 months is also permissible to carry out part of the research/project work in another institute/R&D Lab/industry/scheme in India or abroad. For sanction of such a leave, a letter of consent from the host organization is required.</p> <p>On recommendations of the Supervisor, the DPPC secretary, HoD, and Chairman, IPPC, the Chairman, Senate approves such an academic leave. Such cases are also to be reported to the Senate.</p> <p>A student granted academic leave for one or more semesters, pays prescribed fees in every semester.</p> <p>If a registration date falls during the period of academic leave, a student completes the registration procedures at the expiry of his/her academic leave.</p>
SUPERVISOR(S)	
8.1	Every student admitted to the Dual [MS (Eng.) + PhD] degree programme undertakes research under the guidance of a faculty member of the department in which he is admitted. The faculty member is called his/her Supervisor.
8.2	A student may have a second Supervisor from the same or another Department. One of the supervisors will act as the Coordinating Supervisor. The Coordinating Supervisor has to be from the department where the student is registered. The Chairman DPPC nominates the Coordinating Supervisor.
8.3	The following categories of persons can act as one of the Supervisors but not as a Coordinating Supervisor:
8.3.1	A faculty nearing superannuation with less than 3 years of service left at the Institute.
8.3.2	A faculty on contract (including a Visiting Faculty) with less than 3 years

	of service left at the time of appointment as a Supervisor.
APPOINTMENT OF SUPERVISOR(S)	
9.1	The DPPC appoints Supervisor(s) to a student after obtaining mutual consent of both the student and the Supervisor(s).
9.2	The Supervisor(s) is identified and appointed at the earliest and within one year from the date of admission.
CHANGE/ADDITION OF SUPERVISOR(S)	
10.1	If a student has only one Supervisor and the Supervisor goes on leave for more than 15 (fifteen) months, another Supervisor is appointed by the DPPC. Mutual consent of both the student and Supervisor(s) is taken for such cases.
10.2	The Chairman, Senate may permit a student to change his/her Supervisor(s) for valid reasons. Mutual consent of the student and supervisor(s) and recommendations of the DPPC and IPPC are required. Such cases are reported to the Senate.
DOCTORAL COMMITTEE (DC)	
11.1	To monitor the progress of research of a student, there will be a Doctoral Committee with the following composition:
	(i) A faculty member other than the Supervisor(s) to be nominated by the DPPC Chairman
	(ii) Supervisor(s) Member(s)
	(iii) Two other faculty members Members
11.2	The DC is constituted by the DPPC in consultation with the Supervisor(s) within one month from the date of appointment of the Supervisor(s). The list is sent to the Chairman, IPPC for approval.
11.3	Until the DC is constituted, the DPPC performs the duties of the DC.
COURSE WORK	
12.1	A student is required to complete at least 12 courses with minimum aggregate of 72 credits.
12.2	The Supervisor / Secretary DPPC / Faculty Advisor will prescribe the set of courses to be completed by the student.
12.3	If a student desires to carry out research work in an interdisciplinary area, then if required courses belonging to other academic departments may be prescribed accordingly by the Supervisor / DPPC Secretary / Faculty Advisor. In such a case, the concerned student will have to complete at least 6 courses with minimum aggregate of 36 credits by taking the courses offered from the department of Electronics and Electrical Engineering.
12.4	Under normal circumstances, a student is required to complete all course work within three semesters, and registering for at least four courses in each semester. In each semester, the Cumulative

	Performance Index (CPI) should not be less than 6.5.
12.5	If at the end of any semester, a student maintains a SPI of 6.5, but fails in a course, he/she is allowed to repeat/substitute it in the following semester(s).
12.6	A repeat/substitute course may be registered during the summer term.
12.7	Medium of instruction, examination and project/thesis reports will be in English.
12.8	Grading system, Assessment of Performance, Method of Awarding Letter Grades, Examination, Make-up Examinations and Withholding of Grades for course work have to be followed as per relevant Clauses of the M.Tech./M.Des. Ordinances, Rules and Regulations.
12.9	Faculty Advisor: To help the students in planning their courses of study and getting general advice on the academic programme, the concerned department will assign a Faculty Advisor each student till the supervisor is appointed. Otherwise, Secretary, DPPC will act as faculty advisor till the supervisor is appointed.
COMPREHENSIVE EXAMINATION	
13	Clauses applicable for Comprehensive Examination of the Ph.D. Ordinances and Regulations will have to be followed.
STATE-OF-THE-ART SEMINAR	
14	Clauses applicable for State-of-the-Art Seminar(SOAS) of the Ph.D. Ordinances and Regulations will have to be followed.

PROGRESS REVIEW	
15	Clauses applicable for Progress Review of the Ph.D. Ordinances and Regulations will have to be followed.
ENROLMENT	
16.1	Student will have to enroll in person every semester on the stipulated date till the submission of their theses.
16.2	They are required to pay the prescribed fees till the submission of their theses within stipulated dates.
16.3	A student may be exempted from the prescribed fees for the last semester if he submits thesis within 30 days from beginning of the semester.
16.4	Only those students will be permitted to register who have :
16.4.1	cleared all Institute, Hostel and Library dues and fines (if any) of the previous semesters,
16.4.2	paid all required advance payments of Institute and Hostel dues for the

	current semester, and
16.4.3	not been debarred from registering on any specific ground.
16.5	During Course Work the following have to be followed:
16.5.1	Every student is required to register for approved courses through the assigned Faculty Advisor/Supervisor/Secretary DPPC at the commencement of each semester on the day fixed for such registration and notified in the Academic Calendar. The Dean Academic Affairs may cancel the registration of one or more courses if they are found to violate some rules or if there are restrictions imposed due to disciplinary reasons.
16.5.2	A student who obtains a CPI lower than 6.5 with grade 'DD' in some subjects or grade 'F' in some subjects may be permitted by the Dean of Academic Affairs on the recommendations of the DPPC to repeat one or more DD graded subjects along with the failed subjects, provided, the subject(s) is /are being offered therein.
16.5.3	When a student re-registers for a subject, in accordance with clause 16.5.2 and clause above, his/her new grade will be used for SPI calculation, whereas for CPI calculation, the better of the two grades (the old and the new) of that subject will be considered.
16.5.4	Students may add and drop subject(s) with the concurrence of the Thesis Supervisor/Faculty Advisor/Secretary DPPC, and under intimation to the concerned course instructors and the academic section provided this is done within the date mentioned in the Academic Calendar and as per the conditions given in clause 12.4.
16.6	<p>Semester drop: Up to two semesters may be dropped in the entire duration of the Dual [MS (Eng.) + PhD] degree programme, on bonafide grounds. Except on medical grounds, semester drop is not permissible before successful completion of Comprehensive Examination by a student.</p> <p>On recommendation of the Supervisor, Chairman, DPPC and Chairman, IPPC, the Chairman, Senate approves a semester drop. Cases of semester drop are reported to the Senate.</p> <p>No assistantship is provided during the period of a semester drop. The period of semester drop is not counted in the prescribed minimum time limit for completion of the Dual [MS (Eng.) + PhD] degree programme.</p>
CONDUCT AND DISCIPLINE	
17.1	Students shall conduct themselves within and outside the precincts of the Institute in a manner befitting the students of an institution of national importance. The Institute has a separate ordinance Code and Conduct

	of Students which is applicable to all students of the Institute.
17.2	In addition, unauthorized absence for more than one month leads to disciplinary action, in the form of reduction of assistantship or even termination of studentship.
CANCELLATION OF STUDENTSHIP	
18.1	A student is required to leave the Institute on the following grounds:
18.1.1	During course work: If a student fails to secure a CPI of 6.5 at the end of any semester. However, a student securing a CPI below 6.5 may be allowed to continue in the following semester on the recommendation of DPPC and with the approval of IPPC. Subsequently the student will be issued a warning. Students who secure a CPI below 6.5 in two consecutive semesters will not be allowed to continue in the programme.
18.1.2	If a student is absent for more than 6 (six) weeks in a semester without sanctioned leave his/her name will be struck off the rolls.
18.1.3	A student may also be required to leave the Institute on disciplinary grounds.
18.1.4	On having been found to have produced false documents or having made false declarations at the time of seeking admission.
18.1.5	On having been found to be pursuing regular studies and/or correspondence courses (leading to degree or diploma) in any other college, university or an educational institution.
18.1.6	On having found to be concurrently employed and performing duty or carrying out business.
18.1.7	Not conforming to the regulations of the programme.
18.1.8	Failure in Comprehensive Examination.
18.1.9	Consistent lack of progress in research.
18.1.10	Not submitting a thesis within the stipulated period.
18.1.11	Not enrolling for a semester within stipulated dates.
DURATION OF THE PROGRAMME	
19.1	The duration of the Dual [MS (Eng.) + PhD] degree programme is as follows:
19.1.1	The minimum duration of the Dual [MS (Eng.) + PhD] degree programme (excluding dropped semester(s)) is six semesters from the date of admission.
19.1.2	The maximum duration of the Dual [MS (Eng.) + PhD] degree programme is seven years from the date of admission.
SYNOPSIS OF THESIS	

20	Clauses applicable for Synopsis of Thesis of the Ph.D. Ordinances and Regulations will have to be followed.
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PANEL OF EXAMINERS	
21	Clauses applicable for Panel of Examiners of the Ph.D. Ordinances and Regulations will have to be followed.
SUBMISSION OF THESIS	
22	Clauses applicable for Submission of Thesis of the Ph.D. Ordinances and Regulations will have to be followed.
THESIS REPORTS	
23	Clauses applicable for Thesis Reports of the Ph.D. Ordinances and Regulations will have to be followed.
VIVA VOCE	
24	Clauses applicable for Viva Voce of the Ph.D. Ordinances and Regulations will have to be followed.
AWARD OF DUAL [MS (ENG.) + PHD] DEGREES	
25.1	A student shall be declared to be eligible for the award of the degree if following are satisfied.
25.1.1	The Viva Voce Board recommends award of the degree,
25.1.2	No dues to the Institute, Department, Hostels; and
25.1.3	No disciplinary action is pending against him/her.
25.2	After successful completion of the Viva Voce, the student will be awarded the MS and PhD degrees together. The MS degree will be retroactive from the date of the completion of the SOAS.
25.3	The award of Dual [MS (Eng.) + PhD] degrees in Electronics & Electrical Engineering must be recommended by the Senate and approved by the Board of Governors of the Institute.
25.4	Award of MS (Eng.) degree only: Awarding only MS (Eng.) degree is not the objective of the program and hence this option is invoked only in the rarest of rare cases as to be observed by the doctoral committee (DC). After successful completion of the course work, comprehensive examination and SOAS by the student, and at least one annual progress review of research work, should the DC feel that the progress of the student is not satisfactory, it may recommend termination of the programme. The minimum duration for the same is four years. The DC will recommend submission of MS (Eng.) Thesis based on the progress made and also in consultation with the supervisor, suggesting

	<p>the volume of work to be completed for the MS (Eng.) Thesis. The student will submit MS (Eng.) thesis and defend the same. The procedure for the submission of MS (Eng.) Thesis and conduct of oral examination are as per relevant Clauses of M.Tech./M.Des. Ordinances, Rules and Regulations. In that case, student will receive only the MS (Eng.) degree and leave the programme; and the MS (Eng.) degree in Electronics and Electrical Engineering will be effective from the date of leaving the programme. This must be recommended by the Senate and approved by the Board of Governors of the Institute.</p>
APPENDIX-A ELIGIBILITY CRITERIA FOR ADMISSION IN TO DUAL [MS (ENG.) + PHD] DEGREE PROGRAMME IN ELECTRONICS and ELECTRICAL ENGINEERING	
<p>The details of the eligibility criteria (i.e. minimum qualifications and experience) for admission to Dual [MS (Eng.) + PhD] degree programme are given in this appendix. The Senate reviews the same for admission to the Dual [MS (Eng.) + PhD] degree programme from time to time. Relaxation in academic qualification for reserved categories of students is as per Government of India guidelines.</p>	
MINIMUM QUALIFICATIONS	
A.1	<p>Minimum qualifications for Dual [MS(Eng.) + PhD] degrees in Electronics and Electrical Engineering:</p> <p>Bachelor's degree in Engineering/Technology or equivalent in any area, with a minimum CPI of 7.5 or 70% of marks, and a valid GATE score in any subject.</p> <p>If the qualifying BE/BTech degree is from an IIT or a Centrally Funded Technical Institute (CFTI) with CPI 8.0 or 75% of marks, the valid GATE score requirement is exempted.</p>
A.2	<p>A regular student of IIT Guwahati who is continuing his/her MTech studies and having a minimum CPI of 8.0 at the end of second semester, may be enrolled in the Dual [MS (Eng.) + PhD] programme of the Department in the beginning of his/her third semester of study. Such students can receive a Dual [MS (Eng.) + PhD] Degree only.</p>

ANNEXURE-I**REVISED proposal for admitting 30 students belonging to the North Eastern States in to the M.Sc. programme of IIT Guwahati over and above those admitted through Joint Admission Test for M.Sc. (JAM)**

IIT Guwahati has an M.Sc. programme in the three disciplines of Physics, Chemistry and Mathematics & Computing with current in-take of 48 students in each of the three disciplines through the Joint Admission Test in M.Sc. (JAM). It is proposed to admit 30 additional students belonging to 8 (Eight) North Eastern states (10 additional students in each discipline), through separate admission tests to be conducted by concerned Academic departments of the Institute.

The procedure and eligibility criteria of students for filling up the above referred 30 additional seats will be as follows:

- (a) 10 (Ten) seats for each of the three disciplines would be filled annually by the students belonging to 8 (Eight) North Eastern states, through separate admission tests to be conducted by concerned academic departments of the institute with effect from the academic session 2015-16. The intake through the Joint Admission Test for M.Sc. (JAM) is 48 in each for the three disciplines. The total no. of intake will be 58 as detailed below:

Discipline	In-take through JAM 2015	Proposed in-take through separate admission tests to be conducted by the concerned academic departments of the Institute, especially for students belonging to 8(Eight) North Eastern states	Total proposed In-take
Physics	48	10	58
Chemistry	48	10	58
Mathematics & Computing	48	10	58

- (b) Minimum Educational Qualifications (MEQs) of students for the concerned tests will be same as that of the 'Joint Admission Test for M.Sc.(JAM)'.
(c) Reservation of seats will be as per Government of India norms for Centrally Funded Technical Institutions (CFTI s).
(d) The students must be a permanent resident in one of the eight North Eastern states, namely: Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura.
(e) These students admitted from the 8 (Eight) North Eastern states will enjoy the same status and benefits as applicable to those admitted through the JAM.

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B.Tech/B.Des Ordinances and Regulations

(Applicable from 2010 Batch Onwards)

4	<p>The Institute shall have the following B.Tech./B.Des. branches:</p> <p><u>B.Tech. Programme</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 50%;">Branches</th> <th style="text-align: left; width: 50%;">Departments</th> </tr> </thead> <tbody> <tr> <td>Biotechnology</td> <td>Biotechnology Biosciences and Bioengineering</td> </tr> <tr> <td>Chemical Engineering</td> <td>Chemical Engineering</td> </tr> <tr> <td>Chemical Science and Technology</td> <td>Chemistry</td> </tr> <tr> <td>Civil Engineering</td> <td>Civil Engineering</td> </tr> <tr> <td>Computer Science & Engineering</td> <td>Computer Science & Engineering</td> </tr> <tr> <td>Electronics & Communication Engineering</td> <td>Electronics and Electrical Engineering</td> </tr> <tr> <td>Electronics and Electrical Engineering</td> <td>Electronics and Electrical Engineering</td> </tr> <tr> <td>Engineering Physics</td> <td>Physics</td> </tr> <tr> <td>Mathematics & Computing</td> <td>Mathematics</td> </tr> <tr> <td>Mechanical Engineering</td> <td>Mechanical Engineering</td> </tr> </tbody> </table> <p><u>B. Des. Programme</u></p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%;">Design</td> <td style="width: 50%;">Design</td> </tr> </tbody> </table>	Branches	Departments	Biotechnology	Biotechnology Biosciences and Bioengineering	Chemical Engineering	Chemical Engineering	Chemical Science and Technology	Chemistry	Civil Engineering	Civil Engineering	Computer Science & Engineering	Computer Science & Engineering	Electronics & Communication Engineering	Electronics and Electrical Engineering	Electronics and Electrical Engineering	Electronics and Electrical Engineering	Engineering Physics	Physics	Mathematics & Computing	Mathematics	Mechanical Engineering	Mechanical Engineering	Design	Design
Branches	Departments																								
Biotechnology	Biotechnology Biosciences and Bioengineering																								
Chemical Engineering	Chemical Engineering																								
Chemical Science and Technology	Chemistry																								
Civil Engineering	Civil Engineering																								
Computer Science & Engineering	Computer Science & Engineering																								
Electronics & Communication Engineering	Electronics and Electrical Engineering																								
Electronics and Electrical Engineering	Electronics and Electrical Engineering																								
Engineering Physics	Physics																								
Mathematics & Computing	Mathematics																								
Mechanical Engineering	Mechanical Engineering																								
Design	Design																								

4.1	<p>(a) Students are required to attend all the classes (Lectures, Tutorials/Studios, Laboratories, Practical, Workshops etc) for which they have been registered. Students are required to attend all the classes of Extra Academic Activities (Physical Training, NCC, NSS COS (Community Service), NSO including camps and other pre-publicised programmes) for which they have been registered.</p>
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MINOR DISCIPLINE

8.1	<p>Students may opt for a Minor in a discipline other than the discipline he/she is registered in. Students completing a minor will have the minor mentioned in the degree certificate and in the final grade card.</p>
8.2	<p>A minor in any discipline must have five courses each having at-least six credits. The credit requirements for a minor discipline will be in the range of 30 – 36 credits. The minor courses will spread over the third to seventh semesters of a BTech/BDes programme with one course</p>

	per semester.
8.3	For every minor discipline, syllabi of the five courses will be approved by the Senate. Numbering of minor courses will be similar as regular courses but will be appended with "M". DUPC will discuss and recommend the syllabi to the IUPC. The IUPC will consider the proposals from the departments and make recommendations to the Senate for consideration and approval. For all approved courses, the copyright will be with IIT Guwahati.
8.4	Only those students who have completed all the credits required in the first two semesters of their studies with a CPI of 6.5 or above, will be eligible for a minor discipline after the end of second semester.
8.5	Applications for joining a minor discipline must be submitted by intending eligible students in the prescribed form. The academic section will call for applications at the end of the second semester of each academic year and the completed forms must be submitted by the last date specified in the notification.
8.6	The number of seats in each minor discipline will be decided by the Senate of IIT Guwahati. The intake in every minor discipline will be notified by the academic section at the time of calling applications. However, a minor discipline will not be available if the number of applicants in that discipline is less than five.
8.7	Students may enlist their choices of a minor discipline in order of preference, to which they wish to join. It will not be permissible to alter the choices after the application has been submitted.
8.8	Selection to minor disciplines shall be made strictly in order of merit of the applicants. For this purpose the CPI obtained at the end of the second semester shall be considered.
8.9	Joining the minor disciplines carried out in accordance with the above rules will be effective from the third semester of the applicants concerned. No change of minor discipline shall be permitted after this.
8.10	A student with only minor courses remaining as backlogs at the beginning of a semester (other than a Summer semester) will be deemed to have completed the B. Tech. programme and he/she will be awarded a B.Tech./B.Des. degree without a minor.
8.11	A student can opt out from the Minor discipline by expressing his/her intent in the prescribed form. Once a student opts out, he/she will not be allowed to rejoin the Minor discipline.
8.12	Additional rules on MINOR programme, in regard to withdrawal etc., have been placed at Annexure-II and Annexure-III .

12.1	<p>A student who has been admitted to an undergraduate programme of the Institute may be permitted to withdraw temporarily from the Institute on the grounds of prolonged illness or grave calamity in the family for a period of one semester or more, provided:</p> <ol style="list-style-type: none"> a. he/she applies to the Institute within at least 6 weeks of the commencement of the semester or from the date he last attended his/her classes whichever is later, stating fully the reasons for such withdrawal together with supporting documents and endorsement of his/her guardian; b. the Institute is satisfied that, counting the period of withdrawal, the student is likely to complete his/her requirements of the B. Tech./B. Des. Degree within the time limits specified in Clause 11 above; c. there are no outstanding dues or demands in the Institute/ Hostel /Department/ Library/NCC/NSS COS/NSO.
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14.1	<p>Based on the performance of a student, each student is awarded a final letter grade in each subject at the end of the semester. The letter grades and the corresponding grade points are as follows :</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Grade</th> <th style="text-align: center;">Grade Point (Applicable up to Jan-April 2015 Semester)</th> <th style="text-align: center;">Grade Point (Applicable from July-Nov 2015 Semester onwards)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">AS</td> <td style="text-align: center;">-</td> <td style="text-align: center;">10 (Outstanding)</td> </tr> <tr> <td style="text-align: center;">AA</td> <td style="text-align: center;">10</td> <td style="text-align: center;">10 (Excellent)</td> </tr> <tr> <td style="text-align: center;">AB</td> <td style="text-align: center;">9</td> <td style="text-align: center;">9</td> </tr> <tr> <td style="text-align: center;">BB</td> <td style="text-align: center;">8</td> <td style="text-align: center;">8</td> </tr> <tr> <td style="text-align: center;">BC</td> <td style="text-align: center;">7</td> <td style="text-align: center;">7</td> </tr> <tr> <td style="text-align: center;">CC</td> <td style="text-align: center;">6</td> <td style="text-align: center;">6</td> </tr> <tr> <td style="text-align: center;">CD</td> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="text-align: center;">DD</td> <td style="text-align: center;">4</td> <td style="text-align: center;">4</td> </tr> <tr> <td style="text-align: center;">F</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> <p>In addition, there shall be two transitional grades I and X used by the instructors.</p> <p style="background-color: #e0e0e0; padding: 5px;">Securing of 'AS' grade will not have any bearing on deciding President of India Gold Medal winner since award of such a grade will be based on relative group performance of students in a course and hence possibilities for award of such a grade may not uniformly arise for all disciplines/branches.</p>	Grade	Grade Point (Applicable up to Jan-April 2015 Semester)	Grade Point (Applicable from July-Nov 2015 Semester onwards)	AS	-	10 (Outstanding)	AA	10	10 (Excellent)	AB	9	9	BB	8	8	BC	7	7	CC	6	6	CD	5	5	DD	4	4	F	0	0
Grade	Grade Point (Applicable up to Jan-April 2015 Semester)	Grade Point (Applicable from July-Nov 2015 Semester onwards)																													
AS	-	10 (Outstanding)																													
AA	10	10 (Excellent)																													
AB	9	9																													
BB	8	8																													
BC	7	7																													
CC	6	6																													
CD	5	5																													
DD	4	4																													
F	0	0																													

14.8	<p>There are, however, a few other academic requirements for undergraduate programmes where student will be awarded following two grades viz., 'PP' - Passed and 'NP' - Not Passed. All non-credit subjects (such as Physical Training/NCC/NSO/NSS COS, industrial training,</p>
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	field visits and Extra Academic Activities) belong to this category. No grade points are associated with these grades and performance in these subjects is not taken into account in the calculation of the SPI or CPI. However, the award of the degree is subject to obtaining a 'PP' grade in all such subjects.
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20.1	<p>A student shall be declared to be eligible for the award of B. Tech. / B. Des. degree if he/she has :</p> <ol style="list-style-type: none"> completed all the credit requirements for the degree with a "DD" or higher grade in each of the subjects (Theoretical, Laboratory, Studio, Workshop, Sessional etc), Seminars, Projects etc; satisfactorily completed all the non-credit requirements for the degree viz - Extra Academic Activities, Industrial Training, etc (if any); no dues to the Institute, Department, Hostels, NCC, COS and NSO; and no disciplinary action is pending against him/her.
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Annexure - II

Additional Rules on MINOR programme (Applicable for 2010, 2011 and 2012-batch of BTech/BDes students)

A.1		Rules relating to withdrawal from MINOR programme
	A.1.1	If a student submits application for dropping the MINOR discipline within the scheduled time of any semester, all grades awarded to him/her in previous semesters for Minor discipline related courses SHALL BE REMOVED from his/her grade statement, UNLESS HE/SHE SPECIFICALLY REQUESTS IT TO BE OTHERWISE.
	A.1.2	Students who drop out from MINOR discipline having earned any 'F' grade SHALL NOT BE ELIGIBLE for award of Institute medal.
	A.1.3	Students who drop out from MINOR discipline without having earned any 'F' grade will remain ELIGIBLE for award of Institute medal.
A.2		Presentation of performance in MINOR programme in Pass Certificate
	A.2.1	<p>Presentation of performance in MINOR programme in Pass Certificate shall be as follows:</p> <p style="text-align: center;">Bachelor of Technology in xxxxxxxxxx with Minor in yyyyyyyyyy</p> <p>where, xxxxxxxxxx shall reflect the BTech/BDes discipline, and yyyyyyyyyy shall reflect MINOR discipline.</p>

A.3		Presentation of performance in MINOR programme in Grade Card
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A.3.1	<p>There will be a SINGLE Grade Card with the final SPI/CPI representing all courses (<i>including</i> MINOR discipline courses), EXCEPT for those students who submitted application for dropping out from MINOR discipline – in which case the recalculated final SPI/CPI shall be on all courses (<i>excluding</i> MINOR discipline courses);</p> <p>Notwithstanding the above, even after opting out from the MINOR programme, if a student specifically requests for inclusion of whatever MINOR course(s) he/she completed in the Grade Card, the same is to be accepted.</p>
A.3.2	<p>For students only who SUCCESSFULLY complete MINOR discipline, the Grade Card, should mention:</p> <p style="text-align: center;">Discipline : xxxxxxxxxx with additional courses for MINOR in yyyyyyyyyy</p> <p>where, xxxxxxxxxx shall reflect the BTech/BDes discipline, and yyyyyyyyyy shall reflect MINOR discipline.</p>
A.3.3	<p>For students who <i>fail</i> to complete MINOR discipline OR <i>submitted application for dropping out</i> from MINOR discipline, the Grade Card, should mention:</p> <p style="text-align: center;">Discipline : xxxxxxxxxx</p> <p>where, xxxxxxxxxx shall reflect the BTech/BDes discipline.</p>
A.3.4	<p>For students who complete MINOR discipline courses as well as who fail to complete MINOR discipline courses, except for those students who submitted application for dropping out from MINOR discipline, on the back side of their pre-printed high security Grade Card format of the Institute, an additional insertion shall be made as:</p> <p>MINOR discipline courses: These courses are over and above the syllabi and credit structures prescribed for B.Tech./B.Des. programme of the Institute. Students can additionally opt for a Minor in a discipline other than the discipline he/she is registered in. Course codes for minor courses are similar as regular courses but are appended with “M”. <u>Students who complete all MINOR discipline courses will have the minor mentioned in the degree Certificate and final Grade Card.</u></p>

Annexure - III

Additional Rules on MINOR programme (Applicable from 2013-batch of BTech/BDes students onwards)

A.1		Rules relating to withdrawal from MINOR programme
	A.1.1	If a student submits application for dropping the MINOR discipline within the scheduled time of any semester, all grades awarded to him/her in previous semesters for Minor discipline related courses SHALL BE REMOVED from his/her grade statement.
	A.1.2	Students who drop out from MINOR discipline having earned any 'F' grade SHALL NOT BE ELIGIBLE for award of Institute medal.
	A.1.3	Students who drop out from MINOR discipline without having earned any 'F' grade will remain ELIGIBLE for award of Institute medal.

A.2		Presentation of performance in MINOR programme in Pass Certificate
	A.2.1	<p>Presentation of performance in MINOR programme in Pass Certificate shall be as follows:</p> <p style="text-align: center;">Bachelor of Technology in xxxxxxxxxxxx with Minor in yyyyyyyyyy</p> <p>where, xxxxxxxxxxxx shall reflect the BTech/BDes discipline, and yyyyyyyyyy shall reflect MINOR discipline.</p>
A.3		Presentation of performance in MINOR programme in Grade Card
	A.3.1	<p>For students who SUCCESSFULLY complete MINOR discipline: There will be a SINGLE Grade Card with the final SPI/CPI representing all courses (<i>excluding</i> MINOR discipline courses).</p> <p>For these students, at the bottom of the Grade Card, the Course Codes, Course Titles, Course Credits, and Grades, for respective MINOR discipline courses will only be shown, with a caption,</p> <p style="text-align: center;">Summary of Additional Learning MINOR in yyyyyyyyyy</p> <p>where, yyyyyyyyyy shall reflect MINOR discipline.</p> <p>Also, for these students, on the back side of their pre-printed high security Grade Card format of the Institute, an additional insertion</p>

		<p>shall be made as:</p> <p>MINOR discipline courses : These courses are over and above the syllabi and credit structures prescribed for B.Tech./B.Des. programme of the Institute. Students can additionally opt for a Minor in a discipline other than the discipline he/she is registered in. Course codes for minor courses are similar as regular courses but are appended with “M”. <u>Students who complete all MINOR discipline courses will have the minor mentioned in the degree Certificate and final Grade Card.</u></p>
A.3.2		<p>For students who FAIL in MINOR discipline courses OR opt out from MINOR discipline, there will be TWO Grade Cards as per details below:</p> <p>(i) The main Grade Card will be with the final SPI/CPI representing all courses (<i>excluding</i> MINOR discipline courses), without any mentioning about the student’s MINOR discipline courses at the bottom of the Grade Card;</p> <p>For this type of a Grade Card, nothing will be inserted or added on the back-side of the pre-printed high security format.</p> <p>(ii) There will be a separate Grade Card prepared for this type of a student, presenting the MINOR courses with whatever grades he/she secured, with a caption,</p> <p style="text-align: center;">Summary of Additional Learning</p> <p>For this type of a Grade Card also, nothing will be inserted or added on the back-side of the pre-printed high security format.</p>

Note : *The shaded portions indicate modifications.*

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M.SC. / M.A. ORDINANCES, RULES AND REGULATIONS

3.2

Minimum eligibility criteria for admission to various M.Sc. programmes shall be as follows:

~~**M. Sc. Physics:** B.Sc.(10+2+3) degree (Major/Honours) in Physics with Mathematics for at least two years/four semesters, with a minimum of 55% marks or 6.0 CPI in a 10 point scale (50% marks or 5.5 CPI in a 10 point scale for SC/ST/PD candidates) in major/honours only~~

~~OR~~

~~Candidates having B.Sc.(10+2+3) degree without (Major/Honours) in Physics with Mathematics for at least two years/four semesters, must have the concerned degree with (a) Physics as a subject for at least two years/four semesters and Mathematics for at least one year/two semesters and (b) a minimum 55% aggregate marks or 6.0 CPI in a 10 point scale for General/OBC category candidates and a minimum 50% aggregate marks or 5.5 CPI in a 10 point scale for SC/ST/PD category candidates.~~

M. Sc. Physics: A bachelor's degree (at least 10+2+3) with Physics as a major/honours subject and Mathematics as one of the other subjects with a minimum of 55% or 6.0 CPI in a scale of 10 in major/honours subject, without rounding off (50% or 5.5 CPI in a scale of 10, without rounding off, for SC/ST/PD candidates).

OR

A bachelor's degree (at least 10+2+3) with Physics as a subject for at least two years/four semesters and Mathematics for at least one year/two semesters with a minimum of 60% or 6.5 CPI in a scale of 10 in aggregate, without rounding off (55% or 6.0 CPI in a scale of 10, without rounding off, for SC/ST/PD candidates) .

~~**M. Sc. Chemistry:** B.Sc.(10+2+3) degree (Major/Honours) in Chemistry with Mathematics and Physics for at least two years/four semesters, with a minimum of 55% marks or 6.0 CPI in a 10 point scale (50% marks or 5.5 CPI in a 10 point scale for SC/ST/PD candidates) in major/honours only~~

~~OR~~

~~Candidates having B.Sc.(10+2+3) degree without (Major/Honours) in Chemistry with Mathematics and Physics for at least two years/four semesters, must have the concerned degree with (a) Chemistry as a subject for three~~

	<p>years/six semesters and Mathematics and Physics for at least two years/four semesters and (b) a minimum 55% aggregate marks or 6.0 CPI in a 10 point scale for General/OBC category candidates and a minimum 50% aggregate marks or 5.5 CPI in a 10 point scale for SC/ST/PD category candidates.</p>
	<p>M. Sc. Chemistry: A bachelor's degree (at least 10+2+3) with Chemistry as a major/honours subject and Mathematics and Physics as other subjects, with a minimum of 55% or 6.0 CPI in a scale of 10, without rounding off, in major/honours subject (50% or 5.5 CPI in a scale of 10, without rounding off, for SC/ST/PD candidates).</p> <p style="text-align: center;">OR</p> <p>Candidates having a bachelor's degree (at least 10+2+3) <i>without (Major/Honours)</i> must have the concerned degree with (a) <i>Chemistry as a subject for three years/six semesters</i>, (b) <i>minimum 2(Two) courses in Mathematics</i>, (c) <i>minimum 2(Two) courses in Physics</i>, and (d) minimum 60% aggregate marks or 6.5 CPI in a 10-point scale, without rounding off (55% marks or 6.0 CPI in a 10-point scale, without rounding off, for SC/ST/PD candidates).</p> <p>M. Sc. Mathematics and Computing: B.Sc.(10+2+3) degree (Major/Honours) in Mathematics, with a minimum of 55% marks or 6.0 CPI in a 10 point scale (50% marks or 5.5 CPI in a 10 point scale for SC/ST/PD candidates) in major/honours only</p> <p style="text-align: center;">OR</p> <p>Candidates having B.Sc.(10+2+3) degree <i>without (Major/Honours)</i> in Mathematics, must have the concerned degree with (a) Mathematics as a subject for two years/four semesters and (b) a minimum 55% aggregate marks or 6.0 CPI in a 10 point scale for General/OBC category candidates and a minimum 50% aggregate marks or 5.5 CPI in a 10 point scale for SC/ST/PD category candidates.</p> <p>M. Sc. Mathematics and Computing : A bachelor's (at least 10+2+3) degree <i>with</i> major/honours in Mathematics and a minimum of 55% marks or 6.0 CPI on 10-point scale, without rounding off (50% marks or 5.5 CPI on 10-point scale, without rounding off, for SC/ST/PD candidates) in major/honours only</p> <p style="text-align: center;">OR</p> <p>A bachelor's (at least 10+2+3) degree* <i>without</i> major/honours in Mathematics but with Mathematics as a subject for two years/four semesters and a minimum 60% aggregate marks or 6.5 CPI on 10-point scale, without rounding off (55% aggregate marks or 6.0 CPI on 10-point scale, without rounding off, for</p>

	SC/ST/PD candidates).
	* (including major/honours in Computer Science/Statistics)

GRADING SYSTEM

- 13.1 Based on the performance of a student, each student is awarded a final letter grade in each subject at the end of the semester. The letter grades and the corresponding grade points are as follows:

<u>Grade</u>	<u>Grade Point</u> (Applicable up to Jan-April 2015 Semester)	<u>Grade Point</u> (Applicable from July-Nov 2015 Semester onwards)
AS	-	10 (Outstanding)
AA	10	10 (Excellent)
AB	9	9
BB	8	8
BC	7	7
CC	6	6
CD	5	5
DD	4	4
F	0	0

In addition, there shall be two transitional grades I and X used by the instructors.

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M. TECH./M. DES. ORDINANCES, RULES AND REGULATIONS

ORDINANCES

4.	The Institute shall have the following M.Tech./M.Des. programmes:		
	4.1	M. Tech Programme	
		Discipline	Specialization
		Biotechnology	Biotechnology
		Chemical Engineering	a) Petroleum Science and Technology
			b) Materials Science and Technology
		Civil Engineering	a) Structural Engineering
			b) Geo-technical Engineering
			c) Water Resources Engineering and Management
			d) Environmental Engineering
			e) Transportation Systems Engineering
			f) Infrastructure Engineering and Management
		Computer Science & Engineering	a) Computer Science & Engineering
			b) Theoretical Computer Science

		Electronics & Electrical Engineering	a) Signal Processing
			b) VLSI
			c) Communications Engineering
			d) Applied Control Power and Control
			e) RF and Photonics

		Mechanical Engineering	a)	Fluids and Thermal Engineering
			b)	Machine Design
			c)	Computer Assisted Manufacturing
			d)	Computational Mechanics
			e)	Aerodynamics and Propulsion
	4.2	M. Des. Programme		
		Design		Design

M. TECH./M. DES. RULES AND REGULATIONS\

CHANGE OF CATEGORY

~~3. The change in category of student is not permitted in M Tech/M Des programme.~~

3. Change of category from 'Regular to Part-Time' is permissible on the following conditions:

- 3.1. the concerned MTech/MDes student must clear all requirements of his/her course works;
- 3.2 once converted from 'Regular' to 'Part-Time' category, he/she will not be entitled for receiving any Institute Assistantship; and
- 3.3 such a student must complete remaining part of the MTech/MDes programme maximum within 4(Four) years from the date of his/her registration in to first semester of the programme, failure to which his/her studentship shall get automatically terminated.

GRADING SYSTEM

15.1. Based on the performance of a student, each student is awarded a final letter grade in each subject at the end of the semester. The letter grades and the corresponding grade points are as follows :

<u>Grade</u>	<u>Grade Point</u> (Applicable up to Jan-April 2015 Semester)	<u>Grade Point</u> (Applicable from July-Nov 2015 Semester onwards)
AS	-	10 (Outstanding)
AA	10	10 (Excellent)
AB	9	9
BB	8	8
BC	7	7
CC	6	6

CD	5	5
DD	4	4
F	0	0

In addition, there shall be two transitional grades I and X used by the instructors.

APPENDIX – A

ELIGIBILITY CRITERIA FOR ADMISSION INTO M TECH/M DES PROGRAMME

The details of the eligibility criteria (i.e. minimum qualifications and experience) for admission to various MTech/MDes programmes are given in this appendix. The Senate reviews the same for admission to the MTech/MDes programme from time to time. Relaxation in academic qualification for reserved categories of students is as per Government of India guidelines.

MINIMUM QUALIFICATIONS

A.1 Minimum qualifications for M Tech Programme

A.1.1 Minimum CPI of 6.5 or 60% of marks or First Class in the qualifying degree, fulfilling specific requirements for different disciplines, as indicated below:

A.1.1.1 Computer Science & Engineering:

For 'Computer Science & Engineering' specialization: Bachelor's degree in Engineering/ Technology or equivalent in an appropriate area or MSc (Computer Science/Information Technology) or Graduates (AMIETE) from Institution of Electronics and Telecommunication Engineers (IETE) in Computer Science & Engineering or MCA from a recognized Institution, and a valid Graduate Aptitude Test in Engineering (GATE) score in CS.

For 'Theoretical Computer Science' specialization: In addition to the above, MSc (Mathematics/Mathematics & Computing/Statistics) from a recognized Institution and a valid GATE score in 'MA'.

A.1.1.2 Electronics & Electrical Engineering: Bachelor's degree in Electrical/ Electronics Engineering or Equivalent or MSc(Electronics) or Graduates (AMIETE) from Institution of Electronics and Telecommunication Engineers (IETE) in Electronics & Telecommunication Engineering, and a valid GATE score in EC/EE

For 'Power and Control' specialization, a valid GATE score in EE or IN is a must.

A.1.1.3 Mechanical Engineering: Bachelor's degree in Engineering / Technology in an appropriate area and a valid GATE score in:

- (a) `ME' for the specializations of (i) Fluids and Thermal Engineering, and (ii) Machine Design; and
- (b) `ME' or `PI' for the specialization of "Computer Assisted Manufacturing" only.
- (c) `ME' or `AE' for the specializations of (i) Computational Mechanics, and (ii) Aerodynamics and Propulsion.

FORM I -SPONSORSHIP LETTER

(This should be typed on the letter head of the sponsoring organisation)

To,
The
Director
Indian Institute of Technology Guwahati

Reference No..
Date

Sub : Sponsoring an Employee for M. Tech. /M.Des.Programme

Dear Sir,

We hereby sponsor the candidature of Mr./ Mswho is an employee in our organisation, for joining M. Tech./M.Des. Programme inat your Institute as a full-time student.

It is certified that he/she has completed **2(Two) years** of service in our organization/ institute as a regular employee.

We shall relieve him/her of his/her duties in the organisation during the two years of the M. Tech./M.Des. programme.

Sponsoring Authority
Seal & Signature

Form II - No-Objection Certificate for IITGuwahati Project Employee

Indian Institute of Technology Guwahati

Reference No.....

To,

Date:

The

Director

Indian Institute of Technology Guwahati

Sub : No-Objection Certificate

Dear Sir,

We have no objection if Mr./Mrs.....an employee in our organisation, is admitted to the M. Tech./M.Des. Programme inat your Institute as a full-time/part-time student.

It is certified that, the remaining duration of the project at the time of his/her admission will not be less than one year (i.e. the Project will continue up to).

We shall give him/her leave of absence to attend class work at IIT- Guwahati during two years of the M. Tech./M.Des. Programme.

Designated Authority

Seal & Signature

Form III - No-Objection Certificate for Part-time category

(This should be typed on the letter head of the sponsoring organization)

To, Reference No.....
The Date:
Director
Indian Institute of Technology Guwahati

Sub : No-Objection Certificate

Dear Sir,

We have no objection if Mr./Mrs.....an employee in our organisation, is admitted to the M. Tech./M.Des. Programme inat your Institute as a part-time student.

It is certified that he/she has completed **2(Two) years** of service in our organization/institute as a regular employee.

We shall give him/her leave of absence to attend class work at IIT- Guwahati during two years of the M. Tech./M.Des. Programme.

Signature and seal of the
Sponsoring Authority

Ph.D. Ordinances, Rules and Regulations

ELIGIBILITY CRITERIA FOR ADMISSION INTO PhD PROGRAMME

The details of the eligibility criteria (i.e. minimum qualifications and experience) for admission to various PhD programmes are given in this appendix. The Senate reviews the same for admission to the PhD programme from time to time. Relaxation in academic qualification for reserved categories of students is as per Government of India guidelines.

A.1	PhD in Engineering
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	For admission to the PhD Programme in Engineering departments, a candidate must satisfy one of the following criteria:	
A.1.1		Master's degree in Engineering/Technology/Medical Sciences/ Veterinary Sciences/Pharmacy in a relevant area with a minimum Cumulative Performance Index (CPI) of 6.5 or 60% of marks.
A.1.2		Bachelor's degree in Engineering/Technology/Medical Sciences or equivalent in a relevant area with a minimum CPI of 7.5 or 70% of marks.
A.1.3		Bachelor's degree from an Indian Institute of Technology (IIT) in a relevant area with a minimum CPI of 7.0. Four-year Bachelor's degree in Engineering/Technology or equivalent in a relevant area with a minimum CPI of 7.0, from any of the Centrally Funded Technical Institutions(CFTIs).

	A.1.4	A candidate having a four-year Bachelor's degree in Engineering/Technology in a relevant area, with a Postgraduate Degree in Management Science (Finance) or MBA with Finance specialization or equivalent, is also considered for admission in the area of specialization 'Construction Management', of the Department of Civil Engineering. The candidate should have a minimum of 6.5 CPI or 60% marks in Bachelor's level and 6.5 CPI or 60% marks in the postgraduate degree.
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	A.1.5	A candidate having M.Sc. degree with Mathematics as a subject at bachelor's level is also considered for admission in the Department of Civil Engineering. The candidate should have a minimum of 7.5 CPI or 70% marks in Master's level with consistent first class at other levels.
	A.1.6	A candidate with MSc in a relevant area is also considered for admission to the Department of Biotechnology. The candidate should have a minimum of 7.5 CPI or 70% marks in Master's level.
	A.1.6	A candidate having a Two-year Master's degree (after completion of 4-year Bachelor's degree) or three-year Master's degree (after completion of 3-year Bachelor's degree) in Engineering/ Technology/Science in a relevant area, with minimum CPI of 6.5 or 60% of marks, Or A candidate with a Two-year MSc degree (after completion of 3-year Bachelor's degree) in a relevant area with minimum CPI of 7.5 or 70% marks, is also considered for admission in the Department of Biosciences and Bioengineering.
	A.1.7	Postgraduates in Computer Science (ALCCS) from Institution of Electronics and Telecommunication Engineers (IETE), with a minimum Cumulative Performance Index (CPI) of 6.5 or 60% of marks, are also eligible to apply for admission in to PhD programme in Computer Science and Engineering.
	A.1.8	A regular student of IIT Guwahati who is continuing his/her MTech studies and having a minimum CPI of 8.0 at the end of second semester may be enrolled in the PhD programme of the Department in the beginning of his/her third semester of study. Such students can receive only PhD Degree.
	A.1.9	A student of IIT Guwahati who is continuing his/her BTech studies and having a minimum CPI of 6.5 at the end of sixth semester may be enrolled in the PhD programme of the Department in the beginning of his/her seventh semester of study. Such students can receive dual BTech and PhD Degree. Both the degrees will be awarded after completion of PhD degree.

	A.1.10	An MTech graduate of IIT Guwahati, up to a period of 2(two) years from his/her completing the programme, with a minimum CPI of 8.0 in course work, may be considered for direct admission into the PhD programme of the Institute, in the same Department.
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A.2	PhD in Design															
	<p>For admission to the PhD Programme in Design, a candidate must satisfy one of the following criteria:</p> <table border="1"> <tr> <td data-bbox="365 661 503 766">A.2.1</td> <td data-bbox="503 661 1388 766">Candidates having MArch/MDes degree or MTech/ME degree in a relevant area, with a minimum CPI of 6.5 or 60% of marks.</td> </tr> <tr> <td data-bbox="365 766 503 976">A.2.2</td> <td data-bbox="503 766 1388 976">Master's degree in Applied Arts /Ergonomics/Fine Arts/Psychology/Physiology/Occupational Safety and Health/Journalism/Mass Media Communication, with a minimum CPI of 6.0 or 55% marks.</td> </tr> <tr> <td data-bbox="365 976 503 1144">A.2.3</td> <td data-bbox="503 976 1388 1144">Master's degree in Management (MBA or equivalent) with a minimum CPI of 6.5 or 60% marks with relevant studies in Design field, and Bachelor's degree in any discipline.</td> </tr> <tr> <td data-bbox="365 1144 503 1291">A.2.4</td> <td data-bbox="503 1144 1388 1291">Four-year Bachelor's degree or equivalent in Design or Engineering/Technology or Five-year BArch degree or equivalent, in a relevant area with a minimum CPI of 7.5 or 70% of marks.</td> </tr> <tr> <td data-bbox="365 1291 503 1459">A.2.5</td> <td data-bbox="503 1291 1388 1459">Four-year Undergraduate Diploma in Design (NID/CEPT or equivalent), with postgraduate qualification in relevant area with a minimum CPI of 6.5 or 60% marks.</td> </tr> <tr> <td data-bbox="365 1459 503 1753">A.2.6</td> <td data-bbox="503 1459 1388 1753"> <p>Bachelor's degree from an Indian Institute of Technology (IIT) in a relevant area with a minimum CPI of 7.0.</p> <p>Four-year Bachelor's degree or equivalent in Design or Engineering/Technology or Five-year BArch degree or equivalent, in a relevant area with a minimum CPI of 7.0, from any of the Centrally Funded Technical Institutions (CFTIs).</p> </td> </tr> <tr> <td data-bbox="365 1753 503 1871">A.2.7</td> <td data-bbox="503 1753 1388 1871">A two-year Post-graduate Diploma in Design (NID/CEPT or equivalent) with first class at Bachelor's level.</td> </tr> </table>		A.2.1	Candidates having MArch/MDes degree or MTech/ME degree in a relevant area, with a minimum CPI of 6.5 or 60% of marks.	A.2.2	Master's degree in Applied Arts /Ergonomics/Fine Arts/Psychology/Physiology/Occupational Safety and Health/Journalism/Mass Media Communication, with a minimum CPI of 6.0 or 55% marks.	A.2.3	Master's degree in Management (MBA or equivalent) with a minimum CPI of 6.5 or 60% marks with relevant studies in Design field, and Bachelor's degree in any discipline.	A.2.4	Four-year Bachelor's degree or equivalent in Design or Engineering/Technology or Five-year BArch degree or equivalent, in a relevant area with a minimum CPI of 7.5 or 70% of marks.	A.2.5	Four-year Undergraduate Diploma in Design (NID/CEPT or equivalent), with postgraduate qualification in relevant area with a minimum CPI of 6.5 or 60% marks.	A.2.6	<p>Bachelor's degree from an Indian Institute of Technology (IIT) in a relevant area with a minimum CPI of 7.0.</p> <p>Four-year Bachelor's degree or equivalent in Design or Engineering/Technology or Five-year BArch degree or equivalent, in a relevant area with a minimum CPI of 7.0, from any of the Centrally Funded Technical Institutions (CFTIs).</p>	A.2.7	A two-year Post-graduate Diploma in Design (NID/CEPT or equivalent) with first class at Bachelor's level.
A.2.1	Candidates having MArch/MDes degree or MTech/ME degree in a relevant area, with a minimum CPI of 6.5 or 60% of marks.															
A.2.2	Master's degree in Applied Arts /Ergonomics/Fine Arts/Psychology/Physiology/Occupational Safety and Health/Journalism/Mass Media Communication, with a minimum CPI of 6.0 or 55% marks.															
A.2.3	Master's degree in Management (MBA or equivalent) with a minimum CPI of 6.5 or 60% marks with relevant studies in Design field, and Bachelor's degree in any discipline.															
A.2.4	Four-year Bachelor's degree or equivalent in Design or Engineering/Technology or Five-year BArch degree or equivalent, in a relevant area with a minimum CPI of 7.5 or 70% of marks.															
A.2.5	Four-year Undergraduate Diploma in Design (NID/CEPT or equivalent), with postgraduate qualification in relevant area with a minimum CPI of 6.5 or 60% marks.															
A.2.6	<p>Bachelor's degree from an Indian Institute of Technology (IIT) in a relevant area with a minimum CPI of 7.0.</p> <p>Four-year Bachelor's degree or equivalent in Design or Engineering/Technology or Five-year BArch degree or equivalent, in a relevant area with a minimum CPI of 7.0, from any of the Centrally Funded Technical Institutions (CFTIs).</p>															
A.2.7	A two-year Post-graduate Diploma in Design (NID/CEPT or equivalent) with first class at Bachelor's level.															

A.2.8	BFA (4-year professional programme, after 10+2)/GD Art (5-year programme after 10 th standard) with one year professional experience, with a minimum CPI of 7.5 or 70% of marks.
A.2.9	A regular student of IIT Guwahati who is continuing his/her MDes studies and having a minimum CPI of 8.0 at the end of second semester may be enrolled in the PhD programme of the Department in the beginning of his/her third semester of study. Such students can receive only PhD Degree.
A.2.10	A student of IIT Guwahati who is continuing his/her BDes studies and having a minimum CPI of 6.5 at the end of sixth semester may be enrolled in the PhD programme of the Department in the beginning of his/her seventh semester of study. Such students can receive dual BDes and PhD Degree. Both the degrees will be awarded after completion of PhD degree.
A.2.11	An MDes graduate of IIT Guwahati, up to a period of 2(two) years from his/her completing the programme, with a minimum CPI of 8.0 in course work, may be considered for direct admission into the PhD programme of the Department of Design of the Institute.

A.3	PhD in Science
For admission to the PhD Programme in Science departments, a candidate must satisfy one of the following criteria:	
A.3.1	Master's degree in Science in a relevant area with a minimum CPI of 6.5 or 60% of marks.
A.3.2	Master's degree in Engineering/Technology/Design in a relevant area with a minimum CPI of 6.5 or 60% of marks.
A.3.3	Four-year Bachelor's degree in Engineering/Technology/Design/Science from an Indian Institute of Technology (IIT)/Indian Institute of Science(IISc) in a relevant area with a minimum CPI of 7.0.
A.3.4	Four-year Bachelor's degree in a related area in Engineering/Technology/Design/Science (from other than IITs/IISc) in a relevant area with a minimum CPI of 7.5 or 70% of marks.

A.4	PhD in Humanities and Social Sciences								
	<p data-bbox="440 359 1360 453">For admission to the PhD Programme in the department of Humanities and Social Sciences (HSS), a candidate must satisfy one of the following criteria:</p> <table border="1" data-bbox="440 464 1360 915"> <tr> <td data-bbox="440 464 570 558">A.4.1</td> <td data-bbox="570 464 1360 558">Master's degree in Arts/Commerce/Science in a relevant area with a minimum of 55% marks or equivalent of marks.</td> </tr> <tr> <td data-bbox="440 558 570 653">A.4.2</td> <td data-bbox="570 558 1360 653">Master's degree in Engineering/Technology/Design in a relevant area with a minimum CPI of 6.5 or 60% marks.</td> </tr> <tr> <td data-bbox="440 653 570 768">A.4.3</td> <td data-bbox="570 653 1360 768">Four-year Bachelor's degree from an Indian Institute of Technology (IIT) in a relevant area with a minimum CPI of 7.0.</td> </tr> <tr> <td data-bbox="440 768 570 915">A.4.4</td> <td data-bbox="570 768 1360 915">Four-year Bachelor's degree in Engineering/Technology/Design or equivalent (from other than IITs) in a relevant area with a minimum CPI of 7.5 or 70% marks.</td> </tr> </table>	A.4.1	Master's degree in Arts/Commerce/Science in a relevant area with a minimum of 55% marks or equivalent of marks.	A.4.2	Master's degree in Engineering/Technology/Design in a relevant area with a minimum CPI of 6.5 or 60% marks.	A.4.3	Four-year Bachelor's degree from an Indian Institute of Technology (IIT) in a relevant area with a minimum CPI of 7.0.	A.4.4	Four-year Bachelor's degree in Engineering/Technology/Design or equivalent (from other than IITs) in a relevant area with a minimum CPI of 7.5 or 70% marks.
A.4.1	Master's degree in Arts/Commerce/Science in a relevant area with a minimum of 55% marks or equivalent of marks.								
A.4.2	Master's degree in Engineering/Technology/Design in a relevant area with a minimum CPI of 6.5 or 60% marks.								
A.4.3	Four-year Bachelor's degree from an Indian Institute of Technology (IIT) in a relevant area with a minimum CPI of 7.0.								
A.4.4	Four-year Bachelor's degree in Engineering/Technology/Design or equivalent (from other than IITs) in a relevant area with a minimum CPI of 7.5 or 70% marks.								

A.5	PhD in Centres										
	<table border="1" data-bbox="367 1073 1430 1856"> <tr> <td data-bbox="367 1073 586 1209">A.5.1</td> <td data-bbox="586 1073 1430 1209">Master's Degree in Engineering/Technology/Design/ Architecture/ Medical Sciences in a relevant area with a minimum CPI of 6.5 or 60% of marks.</td> </tr> <tr> <td data-bbox="367 1209 586 1346">A.5.2</td> <td data-bbox="586 1209 1430 1346">Four-year Bachelor's degree in Engineering/ Technology/ Medical Sciences or equivalent in a relevant area with a minimum CPI of 7.5 or 70% of marks.</td> </tr> <tr> <td data-bbox="367 1346 586 1608">A.5.3</td> <td data-bbox="586 1346 1430 1608"> <p data-bbox="602 1377 1365 1440">Bachelor's degree from an Indian Institute of Technology (IIT) in a relevant area with a minimum CPI of 7.0.</p> <p data-bbox="602 1482 1398 1587">Four-year Bachelor's degree in Engineering/ Technology or equivalent, in a relevant area with a minimum CPI of 7.0, from any of the Centrally Funded Technical Institutions (CFTIs).</p> </td> </tr> <tr> <td data-bbox="367 1608 586 1713">A.5.4</td> <td data-bbox="586 1608 1430 1713">Master's degree in Science in a relevant area with a minimum CPI of 6.5 or 60% marks.</td> </tr> <tr> <td data-bbox="367 1713 586 1856">A.5.5</td> <td data-bbox="586 1713 1430 1856">Master's degree in Social Sciences, in a relevant area, with a minimum CPI of 6.5 or 60% marks, is also considered for admission to the Centre for the Environment.</td> </tr> </table>	A.5.1	Master's Degree in Engineering/Technology/Design/ Architecture/ Medical Sciences in a relevant area with a minimum CPI of 6.5 or 60% of marks.	A.5.2	Four-year Bachelor's degree in Engineering/ Technology/ Medical Sciences or equivalent in a relevant area with a minimum CPI of 7.5 or 70% of marks.	A.5.3	<p data-bbox="602 1377 1365 1440">Bachelor's degree from an Indian Institute of Technology (IIT) in a relevant area with a minimum CPI of 7.0.</p> <p data-bbox="602 1482 1398 1587">Four-year Bachelor's degree in Engineering/ Technology or equivalent, in a relevant area with a minimum CPI of 7.0, from any of the Centrally Funded Technical Institutions (CFTIs).</p>	A.5.4	Master's degree in Science in a relevant area with a minimum CPI of 6.5 or 60% marks.	A.5.5	Master's degree in Social Sciences, in a relevant area, with a minimum CPI of 6.5 or 60% marks, is also considered for admission to the Centre for the Environment.
A.5.1	Master's Degree in Engineering/Technology/Design/ Architecture/ Medical Sciences in a relevant area with a minimum CPI of 6.5 or 60% of marks.										
A.5.2	Four-year Bachelor's degree in Engineering/ Technology/ Medical Sciences or equivalent in a relevant area with a minimum CPI of 7.5 or 70% of marks.										
A.5.3	<p data-bbox="602 1377 1365 1440">Bachelor's degree from an Indian Institute of Technology (IIT) in a relevant area with a minimum CPI of 7.0.</p> <p data-bbox="602 1482 1398 1587">Four-year Bachelor's degree in Engineering/ Technology or equivalent, in a relevant area with a minimum CPI of 7.0, from any of the Centrally Funded Technical Institutions (CFTIs).</p>										
A.5.4	Master's degree in Science in a relevant area with a minimum CPI of 6.5 or 60% marks.										
A.5.5	Master's degree in Social Sciences, in a relevant area, with a minimum CPI of 6.5 or 60% marks, is also considered for admission to the Centre for the Environment.										

