



DEPARTMENT OF CIVIL ENGINEERING

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To,

Date : 04.05.2017

**Sub:** Call letter for **Written Test and Interview** for regular candidates for admission into M. Tech. programmes in **Environmental Engineering and Earth System Science and Engineering**, to start from July 2017.

Dear Applicant,

With reference to your application for admission in to M. Tech. programmes of the Department of Civil Engineering, you are hereby required to appear for **WRITTEN TEST and INTERVIEW** for the specializations: **Environmental Engineering and Earth System Science and Engineering**. Written Test and Interview for above specializations will be conducted as per the following schedule:

Document Verification, Written Test and Interview	Date and time	Reporting Time
Document Verification	9:00 AM on 16 <sup>th</sup> May 2017	8:00 AM
1-hour written test (Environmental Engineering)	12 Noon on 16 <sup>th</sup> May 2017	11:30 AM
1-hour written test (Earth System Science and Engineering)	02:30 PM on 16 <sup>th</sup> May 2017	2:00 PM
Interviews (Environmental Engineering, and Earth System Science and Engineering)	16 <sup>th</sup> May 2017 (4:00 PM- 8 PM) 17 <sup>th</sup> May 2017 (9AM onwards)	3:45 PM on 16 <sup>th</sup> May 2017 & 8:00 AM on 17 <sup>th</sup> May 2017

The venue for document verification, Written Test and Interview to be held on May 16<sup>th</sup> 2017 is – **Lecture Hall Complex (L1-L4)**.

The venues for Interview to be held on May 17<sup>th</sup> 2017 are –**Conference Room, Seminar Hall, Department of Civil Engineering, IIT Guwahati**.

If you have opted for admission in M. Tech. with specializations in Environmental Engineering/ Earth System Science and Engineering, you are required to appear for written Tests and Interviews. The important details including syllabus for written tests are enclosed in Annex – (A) Environmental Engineering and Annex – (B) Earth System Science and Engineering.

**Please note that:**

(1) For results **as well as timely follow-up actions to be taken**, the candidates will have to constantly monitor the instructions to be provided in the Institute's website as provided below:

<http://www.iitg.ernet.in/acad/AdvtNotificationJuly2017/MTechMDes.htm>

(2) Also, please note the following:

(a) (1) Firstly, you will be required to bring your downloaded and signed copy of the Online Application Form (If due to some reasons, you filled-up more than one online application forms, you have to bring the latest and updated one only),

**ALONG WITH:**

- (i) your coloured photograph of size 4.5 cm. x 3.5 cm., affixed on it;
- (ii) **Original Demand Draft** for Rs.150/- (Rs.75/- for SC/ST/PwD candidates), from any nationalized bank, in favour of INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI, payable at Guwahati;
- (iii) attested copy of your Date of Birth Certificate (if DoB is not mentioned in your Class X/XII Pass Certificate/Mark Sheet);
- (iv) **if applicable**, attested copy of your Caste Certificate [*Please note that OBC (Non-creamy Layer) Certificate will have to be as per format prescribed in our Admission Notification for MTech/MDes programme, and issued by the competent authority on or after 01-04-2016, failure to which you will be considered under 'General' category*];
- (v) **if applicable**, attested copy of your 'PwD' Certificate;
- (vi) **if applicable**, the appropriate **Form in original** relating to candidate's Category [Sponsored (Full-Time)/ IITG's Project Staff/ Part-Time] - *as per format prescribed in our Admission Notification for MTech/MDes programme*;
- (vii) attested copies of Pass Certificates and Mark Sheets [ **Mark Sheets should be complete for all semesters/years** of your educational qualifications (from Class X onwards)];
- (viii) **as may be applicable**, copy of your qualifying degree Grade Point Average to Percentage conversion certificate( or proof thereof);
- (ix) **as may be applicable**, attested copy of your GATE Score Card (*This is a MUST, unless your qualifying degree is M.E. or M.Tech., Or you are a BTech degree holder from an IIT with a minimum CPI of 8.0*);
- (x) **as may be applicable**, attested copy of Certificates relating to your professional experience etc.;

(2) **As may be applicable**, you are also required to bring all **ORIGINAL documents relating to** points

(a)(1) (iii), (iv), (v), (vi), (vii), (viii), (ix) and (x), for verification on the day of your **Counseling/Written Test/Interview/ Written Test and Interview**.

(b) If you have appeared in the qualifying degree examination and your results are awaited OR you are going to appear in all the subjects of your qualifying degree examination before 14-07-2017, you may appear in the **Counseling/Written Test/Interview/Written Test and Interview**. Please note that, for such candidates, selections shall be provisional. And all provisionally selected candidates shall have to produce their original pass certificates and Mark Sheets of the qualifying degree examination latest by **21-08-2017**, for regularization – failure to which their admissions shall stand automatically cancelled.

Also, please note the following:

Accommodation for candidates has been arranged in IIT Guwahati Hostels. **However, you are required to bring your own bedroll.**

Yours sincerely,

Subashisa Dutta

Prof. & Head, Civil Engineering, IIT Guwahati



## ANNEXURE-A

### Details for written test and interview for admission in M. Tech. Environmental Engineering

Selection of candidates for admission shall be carried out on the basis of GATE marks and their performance in Written Test and Interview. The merit list shall be prepared by assigning 70% weight to GATE marks (out of 100), 15% weight to performance in Written Test and 15% weight to performance in Interview.

#### Schedule for Written Test:

Reporting Date : 16<sup>th</sup> May, 2017  
Reporting Time : 8:00 AM sharp  
Reporting Venue : Lecture Hall Complex, IIT Guwahati  
Written Test Timing : 12 Noon to 1:00 PM

#### Test Pattern:

The test shall comprise of 30 objective type multiple choice questions and candidates are required to *Tick* (✓) the correct/most appropriate answer. Ticking more than one answer will be treated as a wrong/incorrect answer. Each correct answer will fetch ONE mark while NEGATIVE HALF mark will be awarded for each wrong/incorrect answer and NO mark will be awarded if the question is not attempted. Use of scientific calculator is allowed while use of mobile as calculator not permitted.

#### Syllabus:

**Water/Wastewater:** Quality standards, basic unit processes and operations for water treatment. Drinking water standards, water requirements, basic unit operations and unit processes for surface water treatment, distribution of water. Sewage and sewerage treatment, quantity and characteristics of wastewater. Primary, secondary and tertiary treatment of wastewater, sludge disposal, effluent discharge standards. **Air Pollution:** Types of pollutants, their sources and impacts, air pollution meteorology, air pollution control, air quality standards and limits. **Municipal Solid Wastes:** Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/recycle, energy recovery, treatment and disposal).

#### Schedule for Interview:

Reporting Date : 16th May, 2017  
Reporting Time : 3:45 PM sharp  
Reporting Venue : Lecture Hall Complex, IIT Guwahati  
Interview Timings : 4.00 PM onwards

## ANNEXURE -B

### Details for written test and interview for admission in M. Tech. Earth System Science and Engineering

Selection of candidates for admission shall be carried out on the basis of GATE marks and their performance in Written Test and Interview. The merit list shall be prepared by assigning 70% weight to GATE marks (out of 100), 15% weight to performance in Written Test and 15% weight to performance in Interview.

#### Schedule for Written Test:

Reporting Date	:	16 <sup>th</sup> May, 2017
Reporting Time	:	8:00 AM
Reporting Venue	:	Lecture Hall Complex, IIT Guwahati
Written Test Timings	:	2:30 PM to 3.30 PM

#### Test Pattern:

The test shall comprise of 30 objective type multiple choice questions and candidates are required to *Tick (✓)* the correct/most appropriate answer. Ticking more than one answer will be treated as a wrong/incorrect answer. Each correct answer will fetch ONE mark while NEGATIVE HALF mark will be awarded for each wrong/incorrect answer and NO mark will be awarded if the question is not attempted. *Use of scientific calculator is allowed while use of mobile as calculator not permitted.*

#### Syllabus:

**Elementary Mathematics:** Relations and functions; Trigonometric functions; Matrices; Determinants; Differential and Integral calculus; Differential equations; Statistics and probability.

**Elementary Physics:** Electromagnetism; Optics; Magnetism; Gravity; Thermodynamics.

**Elementary Chemistry:** Chemical bonding and molecular structure; Organic chemistry; Solutions; Solid state; Electrochemistry; Chemical kinetics.

**Elementary Geology:** Carbon cycle; Hydrogen cycle; Nitrogen cycle; Fold; Faults; Minerals and rocks; Coal; Petroleum; Greenhouse gases and effects; Atmosphere; Ocean system; Earthquake, volcanoes and other natural disasters, River system; Groundwater.

**Elementary Civil Engineering:** Fluid properties; Principle of conservation of mass; Momentum and energy; Applications of momentum and Bernoulli's equation; Laminar and turbulent flow; Soil properties; Stress and strain; Water quality and basic units processes for water treatment; Air and water pollution; Linear and angular measurements in surveying.

#### Schedule for Interview:

Reporting Date	:	16 <sup>th</sup> May, 2017
Reporting Time	:	3:45 PM sharp
Reporting Venue	:	Lecture Hall Complex, IIT Guwahati
Interview Timings	:	4:00 PM onwards



### ANNEXURE-C

Tentative Fee for New M. Tech./M.Des./MS(R) students for July-Nov 2017 Semester (First Semester)

Sl. No.	Items	PERIODICITY	Amount (Rs.)
1.	Admission fee	ONE TIME	150
2.	Grade Card Fee	ONE TIME	150
3.	Provisional Certificate Fee	ONE TIME	100
4.	Medical Examination Fee	ONE TIME	100
5.	Student Welfare Fund	ONE TIME	200
6.	Identity Card Fee	ONE TIME	50
7.	<b>Tuition Fee *</b>		
	a) Applicable for regular and QIP students	PER SEMESTER	5,000
	b) Applicable for Self-financed OR Sponsored students (part-time / full-time) <u>who are serving as teachers</u>	PER SEMESTER	5,000
	c) Applicable for Self-financed OR Sponsored students (part-time / full-time) <u>who are NOT serving as teachers</u>	PER SEMESTER	25,000
8.	Examination Fee	PER SEMESTER	350
9.	Registration / Enrolment Fee	PER SEMESTER	200
10.	Gymkhana Fee	PER SEMESTER	200
11.	Medical Fee	PER SEMESTER	100
12.	Institute Caution Money	ONE TIME (REFUNDABLE)	1,000
13.	Library Caution Money	ONE TIME (REFUNDABLE)	1,000
14.	Hostel Admission Fee **	One Time	400
15.	Hostel Rent **	Per Semester	1,000
16.	Hostel Fund**	Per Semester	400
17.	Fan, Electricity and Water Charges **	Per Semester	2,000
18.	Hall Caution Money **	One Time(Refundable)	1,000
19.	Students' Brotherhood Fund (SBF)	Per Semester	50
20.	Group Medical Insurance Scheme(GMIS) Premium for 2016-17	Per Year	1,500
<b>Total (1 to 20) [Without mess related fee / deposit] – To be commonly applicable for all:</b>			
a) Regular and QIP students		Hosteller	14,950
b) Self-financed OR Sponsored students (part time / full time) <u>who are serving as teachers</u>		Non-hosteller	10,150
<b>Total (1 to 20) [Without mess related fee / deposit] – For all Self-financed OR Sponsored students (part time / full time) <u>who are NOT serving as teachers</u></b>		Hosteller	34,950
		Non-hosteller	30,150
<b>Total (1 to 20) for 'Regular' SC / ST/ PwD students - Without mess related fee / deposit</b>		Hosteller	9,950
		Non-hosteller	5,150
<b>Mess related Collections for all hosteller students:</b>			
Sl. No.	Items	Periodicity	Amount (Rs.)
21.	Mess Deposit	One Time (Refundable)	2,600
22.	Hall Mess Establishment Charges	One Time	1,000
23.	Mess Advance	First Semester	11,495
<b>Total (21 to 23)</b>			<b>15,095</b>
<b>GRAND TOTAL (1 TO 23) [WITH mess related fee / deposit] – To be commonly applicable for all :</b>			
a) Regular and QIP students		Hosteller	30,045
b) Self-financed OR Sponsored students (part time / full time) <u>who are serving as teachers</u>		Non-hosteller	10,150
<b>GRAND TOTAL (1 TO 23) [WITH mess related fee / deposit] – For all Self-financed OR Sponsored students (part time / full time) <u>who are NOT serving as teachers</u></b>		Hosteller	50,045
		Non-hosteller	30,150
<b>GRAND TOTAL (1 TO 23) FOR SC/ST S/PwD TUDENTS ((WITH mess related fee / deposit)</b>		Hosteller	25,045
		Non-hosteller	5,150

\* "Regular" SC / ST / PwD students are not required to pay Tuition Fees

\*\* These are Hostel related Fees to be paid by Hostellers only.

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