# Indian Institute of Technology Guwahati, Guwahati-781 039, Assam, India.

#### DEPARTMENT OF CIVIL ENGINEERING

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To, Date: 04.05.2017

Sub:

Call letter for Written Test and/or Interview for the candidates with BTech/BDes degree from an IIT, for admission into M. Tech. programmes in the Department of Civil 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 the *WRITTEN TEST and/or INTERVIEW* for the different specializations as per the schedule given below.

| Document Verification, Written Test and Interview   | Date and Time  | Reporting Time   |  |  |
|---|--|--|--|--|
| Document Verification   | 9:00 AM on<br>16 <sup>th</sup> May 2017  | 0.00 414   |  |  |
| 1-hour written test:<br>(Environmental Engineering)   | 12 Noon on<br>16 <sup>th</sup> May 2017  | 11:30 AM   |  |  |
| <b>1-hour written test:</b><br>(Earth System Science and Engineering)   | 02:30 PM on<br>16 <sup>th</sup> May 2017   | 2:00 PM  |  |  |
| Interviews:<br>(Environmental Engineering, and Earth System Science<br>and Engineering)   | 16 <sup>th</sup> May 2017<br>(4:00 PM- 8 PM) &<br>17 <sup>th</sup> May 2017<br>(9:00 AM onwards) | 3:45 PM on<br>16 <sup>th</sup> May 2017 &<br>8:00 AM on<br>17 <sup>th</sup> May 2017 |  |  |
| BTech/BDes degree from an IIT with a minimum CPI of 7.0 opting for M. Tech. in Environmental Engineering, and Earth System Science and Engineering  | As per respective s<br>written test and inte   | pective specialization-wise<br>and interview schedule given<br>above in the table    |  |  |
| BTech/BDes degree from an IIT with a minimum CPI of 7.0 opting for M. Tech. in Structural Engineering, Geotechnical Engineering, Transportation Systems Engineering, Water Resources Engineering and Management and Infrastructure Engineering and Management | Reporting time at 2.30 PM and Interview at 3 PM 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 and Seminar Hall, Department of Civil Engineering, IIT Guwahati.

If you have opted for admission into 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 <u>as well as timely follow-up actions to be taken</u>, 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 <u>signed</u> copy of the Online Application Form (<u>If due to some reasons</u>, <u>you filled-up more than one online application forms</u>, <u>you have to bring the latest and updated one only</u>), **ALONG WITH**:
    - (i) your coloured photograph of size 4.5 cm. x 3.5 cm., affixed on it;
    - (ii) <u>Original Demand Draft</u> for Rs.150/- (Rs.75/- for SC/ST/PwD candidates), from any nationalized bank, in <u>favour of INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI</u>, 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) <u>if applicable</u>, 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, <u>and issued by the competent authority on or after 01-04-2016</u>, failure to which you will be considered under `General' category];
    - (v) if applicable, attested copy of your 'PwD' Certificate;
    - (vi) <u>if applicable</u>, the appropriate <u>Form in original</u> 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) <u>as may be applicable</u>, copy of your qualifying degree Grade Point Average to Percentage conversion certificate( or proof thereof);
    - (ix) <u>as may be applicable</u>, 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) <u>as may be applicable</u>, attested copy of Certificates relating to your professional experience etc.;
  - (2) <u>As may be applicable</u>, you are also required to bring all <u>ORIGINAL documents relating to points</u> (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

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  $Tick(\sqrt{\prime})$  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  $Tick(\sqrt{t})$  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)

| SI. No   | Items   | PE                       | RIODICITY     | Amount (Rs.) |
|--|---|--------------------------|---------------|--------------|
| 1.   | Admission fee   | ONE TI                   | ME            | 150          |
| 2.   | Grade Card Fee  | ONE TI                   | ME            | 150          |
| 3.   | Provisional Certificate Fee   | ONE TI                   | ME            | 100          |
| 4.   | Medical Examination Fee   | ONE TI                   | ME            | 100          |
| 5.   | Student Welfare Fund  | ONE TI                   | ME            | 200          |
| 6.   | Identity Card Fee   | ONE TI                   | ME            | 50           |
|  | Tuition Fee *   |                          |               |              |
|  | a) Applicable for regular and QIP students  | PER SE                   | MESTER        | 5,000        |
| 7.   | b) Applicable for Self-financed OR Sponsored students (part-time / full-time) who are serving as teachers   | PER SE                   | MESTER        | 5,000        |
|  | <ul> <li>c) Applicable for Self-financed OR Sponsored students (part-time / full-time) who<br/>are NOT serving as teachers</li> </ul>   | PER SEMESTER             |               | 25,000       |
| 8.   | Examination Fee   | PER SE                   | MESTER        | 350          |
| 9.   | Registration / Enrolment Fee  |                          | MESTER        | 200          |
| 10.  | Gymkhana Fee  |                          | MESTER        | 200          |
| 11.  | Medical Fee   |                          | MESTER        | 100          |
| 12.  | Institute Caution Money   | ONE TIME<br>(REFUNDABLE) |               | 1,000        |
| 13.  | Library Caution Money   | ONE TIME<br>(REFUNDABLE) |               | 1,000        |
| 14.  | Hostel Admission Fee **   | One Tim                  | ne            | 400          |
| 15.  | Hostel Rent **  | Per Sem                  | nester        | 1,000        |
| 16.  | Hostel Fund**   | Per Sem                  | nester        | 400          |
| 17.  | Fan, Electricity and Water Charges **   | Per Sem                  | nester        | 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 Yea                  | r             | 1,500        |
|  | (1 to 20) [Without mess related fee / deposit] – To be commonly applicable for all: gular and QIP students  | Hostelle                 | er            | 14,950       |
| b) Sel   | o) Self-financed OR Sponsored students (part time / full time) who are serving as teachers  Non-hosteller  Total (1 to 20) [Without mess related fee / deposit] – For all Self-financed OR Sponsored  Hosteller |                          | 40.450        |              |
|  |   |                          |               | 10,150       |
| students (part time / full time) who are NOT serving as teachers  Non-h  Total (1 to 20) for `Regular' SC / ST/ PwD students - Without mess related fee / denosit  Hoste           |   |                          |               | 34,950       |
|  |   |                          |               | 30,150       |
|  |   |                          |               | 9,950        |
| Mess   | related Collections for all hosteller students:   | Non-hos                  | steller       | 5,150        |
| SI. No   |   | Doriedia                 |               | A            |
| 2  |   |                          |               | Amount (Rs.) |
| 2:   | One Time (Return  |                          |               | 2,600        |
| 2  |   | One Time                 |               | 1,000        |
|  | 23. Mess Advance First Semester   |                          | 11,495        |              |
|  |   | TO San                   |               | 15,095       |
| GRAND TOTAL (1 TO 23) [WITH mess related fee / deposit] – To be <u>commonly</u> applicable for all :  a) Regular and QIP students  |   |                          | Hosteller     | 30,045       |
| b) Self-financed OR Sponsored students (part time / full time) who are serving as teachers   |   | Non-hosteller            | 10,150        |              |
|  |   |                          | Hosteller     | 50,045       |
| <b>GRAND TOTAL (1 TO 23) [WITH</b> mess related fee / deposit] – For <b>all</b> Self-financed OR Sponsored students (part time / full time) <u>who are NOT serving as teachers</u> |   | Non-hosteller            | 30,150        |              |
| GRAND TOTAL (1 TO 23) FOR SCIST SIDES TUDENTS (ANITH   |   |                          | Hosteller     | 25,045       |
| GRAND TOTAL (1 TO 23) FOR SC/ST S/PwD TUDENTS ((WITH mess related fee / deposit)   |   |                          | Non-hosteller | 5,150        |

 $<sup>^{\</sup>star}$  "Regular" SC / ST / PwD students  $\,$  are not required to pay Tuition Fees  $^{\star\star}$  These are Hostel related Fees to be paid by Hostellers only.