भारतीय प्रौद्योगिकी संस्थान मुंबई
पवई, मुंबई-400 076, भारत

Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

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डॉ. प्रेमकुमार आर
कुलसचिव

**Dr. R. Premkumar**
Registrar

REG/L-10//2017
Date: 02nd February, 2017

To

Shri Kundan Nath
Under Secretary to Government of India
Ministry of Human Resource Development
Dept of Higher Education, Technical Section-I
Shastri Bhavan, NEW DELHI 110 115.

Sub: Rajya Sabha Unstarred Question No.61 for 02.02.2016 regarding
"Seats reserved for students of SC and ST communities."

Sir,

This has reference to your email dated 30th January,.2017 on the subject cited above. The requisite Information is furnished below.

a) the number of seats reserved for students from SC and ST communities in IITs, IIMs and NITs in the country.

Ans.: Information for the year 2015, the year in which IIT Bombay was the Organizing Institute for JEE (Advanced) is given below:

| SC | ST |
|----|----|
| 1506 | 761 |

(b) the number of such reserved seats filled in each of these institutions during the last three years;

Ans.: (i) **All IITs :**

| Year | SC | ST |
|------|-----|-----|
| 2015 | 1503 | 761 |

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**Dr. R. Premkumar**
Registrar

REG/L-10//2017
Date: 02nd February, 2017

To

Shri Kundan Nath
Under Secretary to Government of India
Ministry of Human Resource Development
Dept of Higher Education, Technical Section-I
Shastri Bhavan, NEW DELHI 110 115.

Sub: Rajya Sabha Unstarred Question No.61 for 02.02.2016 regarding
     "Seats reserved for students of SC and ST communities."

Sir,

This has reference to your email dated 30th January,.2017 on the subject cited above. The requisite Information is furnished below.

a) the number of seats reserved for students from SC and ST communities in IITs, IIMs and NITs in the country.

Ans.: Information for the year 2015, the year in which IIT Bombay was the Organizing Institute for JEE (Advanced) is given below:

| SC | ST |
|----|----|
| 1506 | 761 |

(b) the number of such reserved seats filled in each of these institutions during the last three years;

Ans.: (i) **All IITs :**

| Year | SC | ST |
|------|-----|-----|
| 2015 | 1503 | 761 |

**(ii) IIT Bombay :**

| Year | SC | | ST | |
|------|----------|----------|----------|----------|
| | Reserved | Admitted | Reserved | Admitted |
| 2014 | 368 | 342 | 183 | 143 |
| 2015 | 377 | 361 | 186 | 138 |
| 2016 | 377 | 342 | 187 | 147 |

(c) the reasons for such seats lying vacant, if any;

Ans.:     Seats remained vacant in Undergraduate programmes are being utilized for admitting students for Preparatory Course.  On successful completion of Preparatory Course by such candidates, they are admitted in next year to UG Programme against the previous year's vacant positions.

(d) the details of discontinuance from studies by SC, ST and OBC students, from such IITs, IIMs and NITs reported during the last three years, if any ?

| Year | SC | ST | OBC |
|------|-----|-----|-----|
| 2014 | 16 | 13 | 28 |
| 2015 | 26 | 7 | 48 |
| 2016 | Nil | Nil | 2 |

Yours Sincerely,

(R. Premkumar)
Registrar

L-10

डॉ. प्रेमकुमार आर
कुलसचिव

**Dr. R. Premkumar**
Registrar

REG/L-10//2017
Date: 03rd March, 2017

To

Shri Kundan Nath
Under Secretary to Government of India
Ministry of Human Resource Development
Dept of Higher Education, Technical Section-I
Shastri Bhavan, NEW DELHI 110 115.

Sub: Rajya Sabha Provisional admitted Q. Dy.No.1112 to be admitted on 09.0.32017 regarding "Fees for foreign students in IITs."

Sir,

This has reference to your email dated 01st March 2017 on the subject cited above. The requisite Information is furnished below.

a) whether Government has decided against granting any fee subsidy to foreign undergraduate and postgraduate students in IITs;
(b) whether such students can avail of scholarships provided through the Indian Council of Cultural Relations or institutional funding on a case by case basis'
(c) whether a committee set up by Govt. to look into the fee structure for foreign students stated that such students should be charged the same fee as Indian students and
(d) if so, the details thereof;

Ans.: The decision taken by the IIT Council in its 50th Meeting held on 23.8.2016 regarding admission of international students in IITs and communicated by MHRD vide its OM No.F.No.24-1/2016-TS.I (Sectt.) dated 28th November 2016 is as follows:

"That the foreign students selected for admission in the IITs through the JEE(Advanced)/GATE examinations shall be charged annual tuition fee of Rs.6 lakh per year. However, suitable scholarships may be provided through the ICCR/Institution funding on case-by-case basis."

Accordingly, the matter was reported to the 236th Meeting of the Board held on 25th February, 2017 for its approval and the Board approved adoption of above decision of the Ministry.

Yours Sincerely,

(R. Premkumar)
Registrar

L-10

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**IIT Bombay**

डॉ. प्रेमकुमार आर
कुलसचिव

**Dr. R. Premkumar**
Registrar

REG/L-10/2017
Date: 09ᵗʰ March, 2017

To
Shri Kundan Nath
Under Secretary to Government of India
Ministry of Human Resource Development
Dept of Higher Education, Technical Section-I
Shastri Bhavan, NEW DELHI 110 011.

**Sub: Rajya Sabha Provisionally Admitted Question No.S3087 to be replied on 16.03.2017 regarding "Criteria to define Predatory journals"**

Sir,
      This has reference to your email dated 06ᵗʰ March 2017 on the subject cited above. The requisite inputs with regard to the question is furnished below:

a) whether Government has laid down criteria to define 'predatory journals' and identified the number of Indian 'predatory journal' publishers and if so, the details of such publishers, discipline-wise.

Ans.: IIT Bombay has not laid down any criteria for defining predatory journals. IIT Bombay is also not aware if Government has laid down any criteria for definition of predatory journals.

(b) whether Government is aware that researchers from laboratories under the Council of Scientific and Industrial Research and the Indian Institutes of Technology are publishing academic papers in 'predatory journals' i.e. online publications accepting poor quality papers without adequate peer review and if so, the details thereof;

Ans.: IIT Bombay is not aware that our researchers are publishing academic papers in predatory journals, i.e. online publications accepting poor quality papers without peer review. Though IIT Bombay does not bar any faculty or researcher from publishing in any journal (in absence of any policy as such from Government), any publication in non-peer reviewed journal is not being given any weightage during recruitment/assessment/promotion of faculty members at IIT Bombay. For all such purposes, only papers published in SCI-indexed journals are considered.

(c) whether Government has formulated any rules/policies to discourage increased publishing in predatory journals since 2014?

Ans.: We are not aware if Government has formulated any rules/policies to discourage increased publishing in predatory journals since 2014.

Yours Sincerely,

(R. Premkumar)
Registrar

L-10

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डॉ. प्रेमकुमार आर
कुलसचिव

**Dr. R. Premkumar**
Registrar

REG/L-10//2017
Date: 28th March, 2017

To
Shri Kundan Nath
Under Secretary to Government of India
Ministry of Human Resource Development
Dept of Higher Education, Technical Section-I
Shastri Bhavan, NEW DELHI 110 011.

Sub: Rajya Sabha Unstarred Question No.3239 for 30.03.2017 regarding
"Providing jobs to students from IITs and medical colleges."

Sir,

This has reference to your email dated 27th March, 2017 on the subject cited above. The requisite Information is furnished below.

(a)  whether there is any data available on percentage of students opting for jobs abroad after completion of their degree from IITs and Government medical colleges during the last five years; and
(b)  if so, the details thereof;

Ans.:  Out of the Registered candidates, IIT Bombay has the data of students opting for jobs outside India which are given through the placement office.

Ans:  Following are the percentage of students who got international job offers through the placement office.

Academic Year---Percentage
2016-17     --- 3.84%
2015-16     --- 4.56%
2014-15     --- 5.14%
2013-14     --- 6.72%
2012-13     --- 5.67%
2011-12     --- 4.75%

(c)  the steps taken in collaboration with other Ministries to reduce this trend and to provide better jobs to students in the country itself?

Ans.:  IIT Bombay is in touch with PSUs under various Ministries to take part in student placement activities of the Institute.

Yours Sincerely,

(R. Premkumar)
Registrar

L-10

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डॉ. प्रेमकुमार आर
कुलसचिव

**Dr. R. Premkumar**
Registrar

शिघ्रडाक
**SPEED POST**

REG/L-10//2017
Date: 07<sup>th</sup> April, 2017

To
Shri Kundan Nath
Under Secretary to Government of India
Ministry of Human Resource Development
Dept of Higher Education, Technical Section-I
Shastri Bhavan, NEW DELHI 110 011.

      Sub:  Lok Sabha Unstarred Question No.5935 to be replied on 10.04.2017
             regarding courses on Seismology.
Sir,

      This has reference to your email dated 5<sup>th</sup> April, 2017 on the subject cited above. The requisite Information is furnished below.

(a)  whether the Government is aware that institutes in the country offer courses like Earthquake Engineering and Computation Seismology and if so, the details thereof;

(b)  whether these courses exist as one of the branches of engineering at the undergraduate level in institutes and if so, the details thereof along with degree and name of the institutes thereof;

  Ans.:   (a&b) The department of Earth Sciences, IIT Bombay is offering a course on Earthquake and Engineering Seismology alongwith a lab course in the first year M.Sc.(Applied Geophysics) program. These courses can also be opted by students from the engineering streams. Additionally, a course on "Seismology and earth structure" is also offered at Ph.D level.

GP 403 Earthquake and Engineering Seismology 3 0 0 6

Introduction to seismology, Elasticity, Stress-strain relationships, Equations of motion, seismic wave equations, Body waves and ray theory, Partitioning of energy, Attenuation, anisotropy and anelasticity, Travel times in layered media, Surface waves dispersion and free oscillations, Seismometry and Principles of Digital seismographs, Seismic observatory practices, Seismogram interpretation – Nomenclature of seismic phases, Body wave travel times in earth, Internal structure and composition of the earth, Earthquakes – Seismic sources, Directivity, Scaling laws, Magnitude scales, Location, Focal mechanisms, Moment tensors, Stress drop, Earthquake characteristics, effects and distribution, Seismotectonics, Earthquake prediction, Seismic hazard and risk, Waveform modeling and Inverse problems.

GP 407 Seismology Lab 0 0 3 3

Practical training in seismological data acquisition, processing and interpretation, Seismogram analysis and interpretation, Identification of seismic phases, Determination of earthquake parameters – location, magnitude, stress drop, focal mechanism, Seismological data analysis using standard seismological softwares.

(c) the details of the Seismology Observatories in the country; and
(d) whether the Government intends to construct more such observatories in the country and if so, the details thereof;

Ans.  India Meteorological Department of India is operating several permanent seismological observatories in India.  IIT Bombay is operating a network of temporary seismological observatories in India on research mode.

Yours Sincerely,

(R. Premkumar)
Registrar

L-10

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डॉ. प्रेमकुमार आर
कुलसचिव

**Dr. R. Premkumar**
Registrar

No.REG/L-10/2017
Date: 12th July, 2017

To
Shri Kundan Nath
Under Secretary
Ministry of Human Resources Development
Department of Higher Education
428-C, Shastri Bhavan, New Delhi – 110 011.

Sub: Lok Sabha Unstarred Question No. 219 regarding 'Student death and dropout in IITs'.

Sir,

This has reference to your email dated 11th July, 2017 on the subject cited above. The requisite information pertaining to IIT Bombay is furnished below:

a) **Whether the Government is aware of the number of student deaths and dropout rates of Indian Institutes of Technology (IITs);**

b) **If so, the details of such instances reported in the current year, Institution-wise and the reasons therefor;**

   (i) No death case of student has been reported during the current year.

   (ii) Following is the details of dropped out students for the year 2016-17:

   M.Tech. - 50
   M.Des.  - 1
   M.Mgt  -1
   Ph.D.   - 19

The reasons being students' personal preferences for better opportunities, withdrawal due to realization of wrong choices filled etc.

c) **whether the students in IITs are encouraged to join de-stressing and other motivational / psychological activities for total personality development and if so, the details thereof?**

IIT Bombay has appointed a Student Counsellor dedicated to holding such workshops and sessions. In addition, we have four Student Counsellors to take care of the wellness of the students. We also have 'Yogastha' Club on campus which helps in this.

Yours sincerely,

(R. Premkumar)
Registrar

डॉ. प्रेमकुमार आर
कुलसचिव

**Dr. R. Premkumar**
Registrar

REG/L-10/2017
31st July, 2017

To
Arun Kumar Karn
Assistant Section Officer
Technical Section-1
Department of Higher Education
Ministry of Human Resource Development
216-D, Shastri Bhawan, New Delhi

**Subject :- Rajya Sabha Unstarred Question No.2145 to be answered on 3-8-2017 regarding "Enrolment of students in central institutions"**

Sir,

This has reference to your email dated 29th July, 2017 on the subject mentioned above. The requisite information pertaining to IIT Bombay is furnished below:

Q (a) - The total student strength in various central universities, IITs, IIMs and NITs till date, category-wise for SCs, STs, OBCs and others, university and institute-wise

Ans - Total student strength of IIT Bombay (On Roll-2016-2017): 10169

    (GN: 6174, SC: 1212, ST: 473, OBC: 2310)

Q (b) -The total number of students enrolled in research degrees viz. M. Phil and Ph.D in various central universities, IITs, IIMs, and NITs till date category-wise for SCs, STs, OBCs and others, university and institute-wise

Ans - Total number of students enrolled in research degrees at IIT Bombay

    1. M.Phil: 45 (GN-25, SC-9, ST-1, OBC-10)

    2. Ph.D.: 3022 (GN-2277, SC-236, ST-43, OBC-466)

**P.T.O.**

Q (c) -The steps taken by Government during the last three years to increase the enrolment of SC/ST students at the reasearch level studies in various universities and institutions

Ans - Institute measures to increase the enrolment of SC/ST students:

1. 15% and 7.5% seats are reserved for SC/ST students respectively in all programmes.

2. All SC/ST students admitted are exempted from payment of tuition fees irrespective of their parental income.

3. SC/ST students are awarded scholarship viz., free messing (basic menu), pocket allowance of Rs. 250/- per month and exemption from payment of hostel seat rent of Rs. 500/- per semester provided their parental income is below Rs. 4,50,000/- per annum.

4. All students including SC/ST students in the final year (9th and 10th semesters) of Dual degree programme are eligible for Teaching Assistantship on the basis of their CPI till at the end of 8th semester. Students with CPI 8.00 and above entitled for TAship @ Rs. 12,400/- per month and students with CPI between 6.00 and 7.99 entitled for TAship @ Rs. 6,000/- per month. The cases of the students with CPI below 6.00 are also considered and decided by the Heads of the Department for payment of appropriate TAship at lower rate.

5. All students including SC/ST students with B.Tech. degree from IITs with CGPA/CPI 8.00 and above, are eligible to apply for direct admission to M.Tech. Programme (i.e. without GATE score).

6. A preparatory course of one academic year exists exclusively for SC/ST students. Selection for this course is made from the Joint Entrance Examination list of SC/ST students who did not qualify for admission. On successful completion of the preparatory course at the IIT, they are eligible to join the UG programme and they do not require to write the JEE again.

7. There is SC/ST student adviser who looks into representations of SC/ST students and advise them.

8. There is a programme known as Academic Rehabilitation Programme for weaker students to achieve the required average credits in the 1st or 2nd year of B.Tech. Course.

Yours Sincerely

(R Premkumar)
Registrar

To
Shri Kundan Nath,
Under Secretary (IITs)
Ministry of Human Resources Development
Department of Higher Education
428-C, Shastri Bhavan,
New Delhi – 110011.

**Subject: - Stared Question 'Campus Placement at IITs**

Sir,

This has reference to your email dated 18th December, 2017 on the subject mentioned above. The requisite information pertaining to IIT Bombay is furnished below:

**(a) Whether the campus placement of IIT graduates has gone down during the recent years;**

**Ans.** In the recent years, the placements of IIT Bombay have been improving for the last three years. This year we are better off than the last two years and previously the trends have been similar.

**(b) if so, the details thereof and the reasons there for;**

**Ans.**

| Number of students placed | 2017-18 | 2016-17 | 2015-16 |
|---|---|---|---|
| Total Count (only Phase I)* | 1010 (1010) | 1134 (1007) | 1145 (1017) |

* Number of selections till today. Only Phase I (Dec 1 to Dec 15) data for previous years have also been compiled.

The placements have been better because of the following reasons:

1. The increasing demand for students from IIT Bombay leading to an increase in the number of recruiters
2. Increase in the number of Japanese companies recruiting from IIT Bombay
3. Increase in the number of Pre Placement Offers (PPOs) over the years

**(c) Whether the IITs that have relatively lesser rates of campus placement than others;**

**Ans.** According to the overall data, IIT Bombay has been observing better placements than other IITs. We cannot comment on relative rates of campus placements of non-IIT colleges due to unavailability of data.

**(d) The steps being taken to increase the campus placement at IITs?**

**Ans.** To improve the campus placements we have been,

1. Reaching out to more companies in India as well as abroad
2. Proactively inviting PSUs for campus placements and providing them with the prime slot for interviews
3. Improving student preparation in turn leading to their better interview performance

**Dr. R Premkumar**
**REGISTRAR**