

# JAM 2012

## INDIAN INSTITUTES OF TECHNOLOGY

BOMBAY □ DELHI □ GUWAHATI □ HYDERABAD □ KANPUR □ KHARAGPUR □ MADRAS □ ROORKEE

### Joint Admission Test for M.Sc.

**IMPORTANT:** The JAM 2012 examination will be held in February 2012 instead of May 2012

#### ABOUT JAM:

Joint Admission Test for M.Sc. (JAM) 2012 will be held on 12 February, 2012 (Sunday) for admission to M.Sc. (two-year), Joint M.Sc.-Ph.D, M.Sc.-Ph.D. Dual degree and other post-bachelor's degree programmes at the IITs [Bombay (IITB), Delhi (IITD), Guwahati (IITG), Hyderabad (IITH), Kanpur (IITK), Kharagpur (IITKgp), Madras (IITM) and Roorkee (IITR)] for the academic session 2012-13. JAM 2012 is open to all nationals. However, foreign nationals will be required to satisfy the rules and regulations of the admitting Institute(s) pertaining to foreign students for admission.

JAM 2012 is being organized by IIT Bombay. All correspondence related to JAM 2012 must be addressed to Organizing Chairman, JAM 2012, IIT Bombay.

**Test Papers:** JAM 2012 will have eight test papers, namely, **Biotechnology (BT), Chemistry (CY), Computer Applications (CA), Geology (GG), Geophysics (GP), Mathematical Statistics (MS), Mathematics (MA) and Physics (PH)**, each of three hours duration. The questions for BT and CA test papers will be fully objective type. The questions for the other test papers will be objective-cum-subjective type. A candidate can appear in either one or two test papers subject to the restrictions of test schedule given below and with an additional fee for the second test paper.

Date & Day	Session	Time	Test Paper Codes
12 February 2012 (Sunday)	I	9:00 a.m. to 12:00 noon	CA, CY, GG, MS, PH
	II	2:00 p.m. to 5:00 p.m.	BT, GP, MA

#### APPLICATION FORMS & INFORMATION BROCHURES:

A candidate can apply/register for JAM 2012 either OFFLINE or ONLINE.

**For OFFLINE** process, application forms along with information brochures can be obtained on cash payment (see the table below) from designated branches of the Canara Bank from 22 September, 2011 to 22 October, 2011. The application material can also be obtained by post from the JAM office of IIT Bombay by sending a request along with a self-addressed slip and a crossed Demand Draft towards application fee (see the table below) latest by 18 October, 2011. The application material will be sent by Registered Post/Speed Post.

**For ONLINE** process, candidates can register at the website: <http://www.iitb.ac.in/jam> from 22 September, 2011 to 25 October, 2011 and send a print-out of completed application form along with the Demand Draft to JAM Office, IIT Bombay.

The details of application fees are given below:

Category	Gender	Fees for OFFLINE Application Form from Banks / IITB JAM Office	Fees for ONLINE Application	Additional fees for 2 <sup>nd</sup> test paper**
General/OBC	Male	Rs. 1000	Rs. 900	Rs. 300
	Female	Rs. 900	Rs. 800	Rs. 300
SC/ST/PD*	Male / Female	Rs. 500	Rs. 400	Rs. 150

\*Person with Disability

\*\*Those who are obtaining application form from Bank/IITB JAM office should send the Demand Draft, if opting for a second test paper.

Demand draft should be drawn in favour of "Chairman, JAM, IIT Bombay", on any bank, payable at Mumbai.

The completed OFFLINE/ONLINE Application Form with necessary enclosures must reach the "Organizing Chairman, JAM 2012, IIT Bombay, Powai, Mumbai - 400 076", latest by 1 November 2011.

#### DESIGNATED BANK BRANCHES OF CANARA BANK:

Agra (Cantonment), Ahmedabad (Revdi Bazar), Aligarh (Apsara Complex), Allahabad (Civil Lines), Amritsar (Dharam Singh Market), Bareilly (Civil Lines), Bengaluru (Town Hall), Bhopal (Maharana Pratap Nagar), Bhubaneswar (Bapuji Nagar), Chandigarh (Sector 17 C), Chennai (IIT Campus and T. Nagar), Coimbatore (Oppannakara Street), Delhi (IIT Campus, Janpath, Maharani Bagh and Vivek Vihar), Dhanbad (New Market Bank More), Durgapur (RH Benachitty), Ernakulam (Nettipadam Road), Faridabad (New Industrial Town), Goa (F. L. Gomes Road, Vasco), Gorakhpur (Bank Road), Gurgaon (Alwar Road), Guwahati (Fancy Bazar), Haldwani (Bareilly Road), Hubli (Billappanavar Nagar), Hyderabad (Abid Road), Indore (MG Road), Jabalpur (M.K. Chowk), Jaipur (Ajmeri Gate), Jammu (Shalimar Road), Jamshedpur (Loyola School, Bistupur), Jhansi (Civil Lines), Jodhpur (12th Chopasani Road), Jorhat (Garali), Kadapa (Chinna Chowk), Kakinada (Jawahar

Street), Kanpur (Mall Road), Kharagpur (Fatak Bazar, Kharida), Kochi (Matancherry), Kolkata (College Street and Gariahat), Kurukshetra (Railway Road), Lucknow (Hazratganj), Madurai (Eastmasi Street), Mangalore (Balmatta Road), Meerut (Abu Lane), Mumbai (IIT Campus and Fort), Muzzafarpur (Motijheel), Nagpur (Sitabuldi), Nanded (Tara Singh Maket), Nellore (Jonagaddavari Street), Noida (Sector VI, Noida Complex), Patna (Exhibition Road), Pune (Camp), Raipur (Malviya Road), Ranchi (SN Ganguli Road), Roorkee (Anaj Mandi), Rourkela (Uditnagar), Secunderabad (MG Road), Shillong (Gulasta Fancy Market), Shimla (The Mall), Silchar (Rangerkhiri), Siliguri (Sevoke Road), Thiruvananthapuram (MG Road, Spencer Junction), Tiruchirapalli (Teppakulam), Vadodara (Manick Rao Road), Varanasi (Bansphatak), Vijayawada (Sivalayam Street), Visakhapatnam (Daba Garden).

#### PLACES OF TEST CENTRES:

Agra, Ahmedabad, Allahabad, Amritsar, Bareilly, Bengaluru, Bhopal, Bhubaneswar, Chandigarh, Chennai, Coimbatore, Delhi, Dhanbad, Durgapur, Ernakulam, Faridabad, Goa, Gorakhpur, Gurgaon, Guwahati, Haldwani, Hubli, Hyderabad, Indore, Itanagar, Jabalpur, Jaipur, Jammu, Jamshedpur, Jhansi, Jodhpur, Jorhat, Kadapa, Kakinada (AP), Kanpur, Kharagpur, Kolkata, Kurukshetra, Lucknow, Madurai, Mangalore, Mumbai, Nagpur, Nanded, Nellore, Noida, Patna, Pune, Raipur, Ranchi, Roorkee, Rourkela, Shimla, Silchar, Siliguri, Thiruvananthapuram, Tiruchirapalli, Vadodara, Varanasi, Vijayawada, Visakhapatnam.

Note: JAM 2012 Committee may drop any place as a test centre at its own discretion.

#### TEST PAPERS, ACADEMIC PROGRAMMES AND MINIMUM EDUCATIONAL QUALIFICATIONS FOR ADMISSION:

Test Paper/ Test paper Code	Academic Programme(s)	Institute(s)	Minimum Educational Qualification(s) for admission
Biotechnology (BT)	M.Sc. Biotechnology	IITB, IITR	Bachelor's degree in any branch of Science/ Agriculture / Pharmacy / Veterinary / Engineering / Medicine (MBBS). NOTE: For IITB only, M.Sc. Biotechnology and M.Sc.-Ph.D. Dual Degree in Biotechnology, the candidate should have passed Mathematics at the (10+2) level.
	M.Sc.- Ph.D. Dual Degree in Biotechnology	IITB	
	M.Sc.- Ph.D. Dual Degree in Environmental Science & Engineering	IITB	Bachelor's degree with any one of Biology, Biotechnology, Chemistry, Mathematics and Physics for two years/four semesters, and any one of the other four subjects for at least one year/two semesters. The candidate should have passed Mathematics at (10 + 2) level.
Chemistry (CY)	M.Sc. Chemistry	IITB, IITD, IITG, IITH, IITK, IITM, IITR	Bachelor's degree with Chemistry as a subject for three years/six semesters and Mathematics at (10+2) level.
	Joint M.Sc.- Ph.D. Programme in Chemistry	IITKgp	
	M.Sc.- Ph.D. Dual Degree Programme in Chemistry	IITB	
	M.Sc.- Ph.D. Dual Degree Programme in Energy	IITB	Bachelor's degree with any one of Chemistry, Mathematics and Physics for two years/four semesters and any one of the remaining two subjects for at least one year/ two semesters.
	M.Sc.- Ph.D. Dual Degree in Environmental Science & Engineering	IITB	Bachelor's degree with any one of Biology, Biotechnology, Chemistry, Mathematics and Physics for two years/four semesters, and any one of the other four subjects for at least one year/two semesters. The candidate should have passed Mathematics at (10 + 2) level.
Computer Applications (CA)	Master of Computer Applications	IITR	Bachelor's degree with Mathematics as a subject for at least one year for annual system candidates/ at least two papers of Mathematics for semester system candidates.
Geology (GG)	M.Sc. Applied Geology	IITB, IITR	Bachelor's degree with Geology as a subject for three years/six semesters and any two subjects among Mathematics, Physics, Chemistry, and Biological science. The candidate must have passed Mathematics at (10+2) level.
	Joint M.Sc.- Ph.D. Programme in Geology	IITKgp	
	M.Tech. in Geological Technology	IITR	
	M.Sc.- Ph.D. Dual Degree Programme in Applied Geology	IITB	
Geophysics (GP)	M.Sc. Applied Geophysics	IITB	Bachelor's degree with both Mathematics and Physics as subjects for two years and at least one of them as a subject for three years.

	M.Sc. - Ph.D. Dual Degree Programme in Applied Geophysics	IITB	
	M.Tech. in Geophysical Technology	IITR	Bachelor's degree with Mathematics and Physics as subjects and anyone of the following subjects: Chemistry, Geology, Statistics, Electronics and Computer Science.
Mathematics (MA)	M.Sc. Mathematics	IITB, IITD, IITK, IITM	Bachelor's degree with Mathematics as a subject for at least two years/four semesters.
	M.Sc. Mathematics & Computing	IITG	
	M.Sc. Applied Mathematics	IITR	
	M.Sc. Industrial Mathematics and Informatics	IITR	
	Joint M.Sc. - Ph.D. Programme in Mathematics	IITKgp	Bachelor's degree with Mathematics / Statistics as a subject for at least two years/four semesters.
	M.Sc. - Ph.D. Dual Degree in Operations Research	IITB	
	M.Sc. - Ph.D. Dual Degree in Environmental Science & Engineering	IITB	Bachelor's degree with any one of Biology, Biotechnology, Chemistry, Mathematics and Physics for two years/four semesters, and any one of the other four subjects for at least one year/two semesters. The candidate should have passed Mathematics at (10 + 2) level.
	M.Sc. - Ph.D. Dual Degree Programme in Energy	IITB	Bachelor's degree with any one of Chemistry, Mathematics and Physics for two years/four semesters and any one of the remaining two subjects for at least one year/ two semesters.
Mathematical Statistics (MS)	M.Sc. Applied Statistics and Informatics	IITB	Bachelor's degree with either Mathematics or Statistics as a subject for at least two years or four semesters.
	M.Sc. - Ph.D. Dual Degree in Operations Research	IITB	
	M.Sc. Statistics	IITK	
Physics (PH)	M.Sc. Physics	IITB, IITD, IITG, IITH, IITK, IITM, IITR	Bachelor's degree with Physics as a subject for at least two years/four semesters and Mathematics for at least one year/two semesters.
	Joint M.Sc. - Ph.D. Programme in Physics	IITKgp	
	M.Sc. - Ph.D. Dual Degree Programme in Physics	IITB, IITK	
	M.Sc. (Physics)-M.Tech (Materials Sciences with specialization in Nano-Science & Tech.)	IITB	
	M.Sc. - Ph.D. Dual Degree Programme in Energy	IITB	Bachelor's degree with any one of Chemistry, Mathematics and Physics for two years/four semesters and any one of the remaining two subjects for at least one year/ two semesters.
	M.Sc. - Ph.D. Dual Degree in Environmental Science & Engineering	IITB	Bachelor's degree with any one of Biology, Biotechnology, Chemistry, Mathematics and Physics for two years/four semesters, and any one of the other four subjects for at least one year/two semesters. The candidate should have passed Mathematics at (10 + 2) level.

**JOINT ADMISSION PROCEDURE:**

Admission to the above mentioned academic programmes in IITs for the academic session 2012-13 will be made on the basis of all India merit list of JAM 2012. Candidates who qualify in any test paper are eligible to apply for admission to all the academic programmes corresponding to that test paper, provided they also satisfy the minimum educational qualifications and the essential eligibility requirements, as specified by the Institute(s) in which the admission is

sought. After the declaration of JAM 2012 results, qualified candidates are required to apply on prescribed admission form, listing all the programmes, for which the admission is sought, to the Organizing Institute (IIT Bombay). Candidates should note that being in the merit list of any test paper neither guarantees nor provides any automatic entitlement for admission. Further details regarding admissions, prescribed fees, etc., are available in the JAM 2012 information brochure and also on the JAM website.

**ELIGIBILITY REQUIREMENTS FOR ADMISSION:**

- At least 55% aggregate marks (taking into account all subjects, including languages and subsidiaries, all years combined) for General/OBC Category candidates and at least 50% aggregate marks (taking into account all subjects, including languages and subsidiaries, all years combined) for SC/ST and PD Category candidates in the qualifying degree.
- For candidates with letter grades/CGPA (instead of percentage of marks) the equivalence in percentage of marks will be decided by the admitting institute(s).
- Proof of having passed the qualifying degree with required eligibility, as specified by the admitting institute will be submitted by 30 September 2012.

Reservations: As per Government of India norms.

**Organizing Chairman, JAM 2012,  
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**Long Advertisement for JAM 2012 to be published in Employment News and University News  
On 10 September (Employment News) and 12 September (University News)**

20cm x 38cm = 760 Sqcm  
(in Employment News)

One Full Page & a Half Page Fixed  
(in University News)