

Career Options After +2



Exploring Career Options

In a civilized and prosperous society, the first place where children move and stay away from home is the school. During primary schooling, every child is exposed to similar study environment to ensure development of basic skills such as reading, writing, expressing, good ethics and morale, general discipline, etc. Gradually, students start showing inclination towards certain stream of education and that is the point from where one should start exploring options which would help a student in getting oriented and focused towards his/her career option. It is a very common trend in our society to think of career options at very later stages causing many hardships to students and their parents, besides losing opportunity to concentrate on the preferred career track. It is very usual to force the students to a career option based on the interest of parents, ideas from a relative, or any other person who is unaware of the capability and interest of the student. This leads to the lack of confidence and dedication in the student making his/her efforts counterproductive. Therefore, there is a need for assessing the competence of student at an earliest point of time and expose him to different possible career options according to his competency so that he/she would freely select the career track of his own/her interest.

In a vast and progressive country like India, there are unlimited career options available to explore. The options are so vast including major areas such as Engineering and IT, Medical & Health Sciences, Civil and Defense Services, Social and Political Services, Law and Justice, Commerce and Accountancy, Sports, Art and Cinema, Literature and Journalism, Business, Manufacturing and Cultivation, etc. However, there is a lack of proper awareness among the masses about most of these career options. In addition to this lack of awareness, Indians living abroad with

families are totally cut off from the changing scenario of avenues and competitions for career selection back home in India. This is a very challenging situation for young generations living abroad and getting school education in constrained conditions and then suddenly exposed to a new environment of higher education in India where it is very tough to get acclimatized and reach to the expectations. Due to the lack of information, guidance, and pre-planning, higher education to the children of the Indian expatriates is mostly limited to engineering and medical courses depriving them from other streams where they could do better.

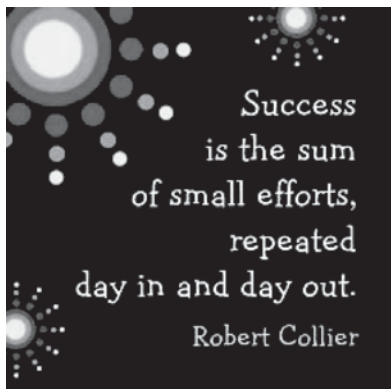
Considering the importance of selecting a proper career at a proper time, IIS Dammam from this year onward is starting an awareness and assessment campaign which would greatly help the students in exploring career options and choosing the right careers for them. This campaign would include many activities such as arranging lectures of prominent persons in different fields from time to time, disseminating relevant information about the state-of-the art career scenarios in India and abroad and providing relevant information about institutions offering professional education in all possible areas, collected and compiled by the IIS Dammam Career Guidance Cell. I take this opportunity to extend my appreciation to this team for bringing out such a helpful booklet.

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How to Prepare for Exams

For many students, exam time is the most stressful part of the school year. With so much riding on the outcome, there can be a high degree of pressure to perform well. Here are some exam preparation tips to help you excel in exams.



Creating a Study Plan

As the exam nears, you will need to create a plan to help you study effectively and minimize stress. Ask yourself the following questions:

- What is your performance target for the exam?
- How much material do I need to cover?
- How difficult is the material?
- How much time is available?
- Do I have any other priorities during the study period?
- What is the format of the exam?
- How important is the exam?

To prepare the study plan, map out all of the material that has to be covered and make a schedule showing what, when and how much you will study each day.

Here are some tips to follow in creating your study plan:

- Allocate the study time into several manageable study sessions; each session shall be of 40 minutes and never exceed 90 minutes.
- Don't forget to include regular breaks but don't extend breaks too.
- Divide the course material into small segments and assign them to the study sessions;

- Prioritize to ensure that material weighted more heavily in the exam gets sufficient study time;
- Take into account your familiarity with the material and the difficulty level;
- Study session may start with a boring subject or lesson to end with an interesting one. It's better to study more than one subject in a day.

Practicing for the Exam

• *Revising with Summary Notes*

Make a condensed version of your readings and class notes by creating summary notes. Pinpoint the key terms and concepts and make sure that you understand them.

• *Memorizing with Flashcards*

Flashcards (or "index cards") are a good memorization tool. Reduce your summary notes into bullet points, keywords, lists, formulas and diagrams and place them onto a card for each topic. The items on the flashcards act as memory triggers.

• *Taking Care of Yourself*

Don't forget to take care of yourself during the exam preparation. It is very important to be in good mental and physical condition for the exam. A small amount of stress can get you psyched which can be detrimental to your performance. After you finish studying, take some time to relax. Don't stay up too late and try to get a good night's sleep. Eat before the exam to build your energy, but avoid heavy foods that can make you drowsy.

Keep a positive attitude about the exam. Think of it as a way to demonstrate your knowledge and not as some imposing challenge. Go to the exam focused and relaxed - you have done the work, now it's time to reap the rewards.

***** **Wish You all the Best** *****

Lawrence Varghese, Boys Section

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Introduction :

WHEN you were in primary school, you might have known exactly what you wanted to do when you grow up. Today, as you are about to step into colleges, you might not be so sure about your choice. As you get older, you discover that choosing a career is a complex, multi-step process. It requires learning about yourself and the professions you are considering.

These are the initial years to shape your career. Stiff competition and numerous options make students confused. To weed out the thorns of confusion, first you need to analyze your interest, aptitude, inclination, potentiality and opportunities. It is often said that if you choose your career based on your interest and aptitude, the success rate as well as satisfaction level will be very high. Do not choose any career under the influence of friends or parents. Give priority to your potential and interest. It should be the sole criteria of selecting a career. Choose your career by keeping the following aspects in mind.

- Area of interest
- Personality
- Aptitude
- your strength and weakness.
- Skills
- Opportunities available
- Capability
- Feasibility for future growth
- Financial aid and scholarship
- Nature of Job

The starting point for a review of options after class XII is your choice of subjects.

All choices for higher studies are linked to the academic background you have acquired. Then there are those which are suited only to individuals with a certain temperament and/ talent. Some options are very academically demanding and require long years of study, while others are more personality-oriented. Choosing the best career option is one of the most important step in the life of a young person which leads to a successful career or Profession.

More than one crore students appear for their 10+2 examination each year across India.

Of these, just over 15 per cent get the opportunity to go for higher studies. And their choices have been uniform for many decades.

CAREER OPTION AFTER +2

Science stream:

What to do after 12th or 10+2 Science? This is the biggest challenge the class 12 students face today immediately after the completion of their course .There are many undergraduate, professional diploma and degree courses and career options available to students with science stream after class 12 in engineering, medicine, computers, B.Sc, B.E, B.Tech, MBBS, BHM, BCA, hotel management, etc. Here you can explore list of top and best careers and courses after 12th science, in medical, non medical, biological sciences etc .in Mumbai, Delhi, Bangalore, Chennai, Chandigarh, Kolkata, Hyderabad, Ahmedabad, Jaipur, Pune, and other cities in India.

1. Careers in medicine
2. Careers in engineering

Medicine :

Medicine is one of the sought after and gratifying professions in the world over. In India, medical science has made tremendous development, over the past few decades. Numerous specializations have been developed over a period of time. The medical profession is considered to be the noblest profession of all. The job of a doctor requires hard work, dedication, commitment, patience and above all, zeal to cure the patients. It is indeed a very demanding profession across the globe.

For admission to MBBS/BDS Courses in India in All Medical/Dental Colleges run with the approval of Medical Council of India/Dental Council of India under the Union Ministry of Health and Family Welfare, a student has to appear at the National Eligibility Cum Entrance Test (UG) - NEET conducted by the Central Board of Secondary Education, Delhi.

NATIONAL ELIGIBILITY CUM ENTRANCE TEST (UG) -2013

<http://cbseneet.nic.in/cbseneet/welcome.html>

PATTERN OF NEET 2013

(i) Pattern of the Entrance Examination:-

The Entrance Examination shall consist of one paper containing 180 objective type questions (four options with single correct answer) from Physics, Chemistry and Biology (Botany & Zoology) to be answered on the specially designed machine-gradable sheet using Ball Point Pen only.

(ii). Date of examination:

The National Eligibility-cum-Entrance Test (NEET) –UG, 2013 will be conducted on Sunday the 05th May 2013 from 10:00 am to 01:00 pm. (The duration of paper would be 3 hours)
The schedule will remain unaltered even if the above date is declared a public holiday.

Indian Nationals and Overseas Citizen of India (OCI) are Eligible for appearing in the National Eligibility Cum entrance test.

iii. Eligibility for All India Quota Seats

(a) He/She should have completed 17 years at the time of admission or will complete the age on or before 31st December of the year of his/her admission to the 1st year MBBS/BDS Course and is an INDIAN NATIONAL.

(b) The upper age limit for candidates seeking admission under 15% All India Quota Seats is 25 years as on 31st December of the year of the entrance examination. Further, provided that this upper age limit shall be relaxed by a period of 5 (five) years for the candidates of Scheduled Castes/ Scheduled Tribes/Other Backward Classes.

Candidates must be born on or between

(a) 01.01.84 to 01.01.97 (SC/ST/OBC Category)

(b) 01.01.89 to 01.01.97 (Other Category)

(iv) Eligibility for State Quota Seats

(i) He/She should complete age of 17 years at the time of admission or will complete the age on or before 31st December of the year of his/her admission to the 1st year MBBS/BDS Course and is an

INDIAN NATIONAL.(ii) Overseas Citizens of India (OCI) are eligible for admission in Medical/Dental Colleges subject to rules and regulations framed by the respective State Governments and the Government of India.

(v).Candidates from Andhra Pradesh and J&K

(i) Students from the States of Andhra Pradesh and J&K are NOT ELIGIBLE for 15% all India quota seats as both these States had opted out of All India Scheme since its inception. If they claim eligibility, they must submit an affidavit, in original, on non-judicial Stamp Paper of Rs 10/- duly sworn in before and attested by a Metropolitan Magistrate/First Class Judicial Magistrate to the effect that:-

- a) They are not eligible to seek admission for MBBS/BDS seats in Medical/ Dental Colleges in the States of Andhra Pradesh and J&K.
- b) They are not domiciled in Andhra Pradesh and J&K.

(ii) Students from the States of Andhra Pradesh and J&K are however eligible for 100% seats for MBBS/BDS seats in Medical/ Dental Colleges in the States of Andhra Pradesh and J&K.

(vi) QUALIFYING CRITERIA FOR NATIONAL ELIGIBILITY-CUM-ENTRANCE TEST

(a) In order to be eligible for admission to MBBS/BDS courses for a particular academic year, it is necessary for a candidate to obtain minimum of marks at 50 th percentile in 'National Eligibility-cum-Entrance Test, held for the said academic year. However, in respect of candidates belonging to Scheduled Castes, Scheduled Tribes, Other Backward Classes, the minimum marks shall be at 40 th percentile. In respect of General candidates with locomotory disability of lower limbs, the minimum marks shall be at 45th percentile. The percentile shall be determined on the basis of highest marks secured in All-India common merit list in 'National Eligibility-cum Entrance Test for admission to MBBS/BDS courses'. Provided when sufficient number of candidates in the respective categories fail to secure minimum marks as prescribed in National Eligibility-cum-Entrance Test held for any academic year for admission to MBBS/BDS Courses, The Central Government in consultation with Medical Council of India/Dental Council of India may at its discretion lower the minimum marks required for admission to MBBS/BDS Courses for candidates belonging to respective categories and marks so lowered by the Central Government shall be applicable for the said academic year only.

(b) No candidate who has failed to obtain the minimum eligibility marks as above shall be eligible for admission to MBBS/BDS courses.

(vii). ADMISSION AND RESERVATION

An All India merit list and State wise merit list of the qualified candidates shall be prepared on the basis of the marks obtained in the National Eligibility-cum-Entrance Test and candidates shall be admitted to MBBS/BDS courses from the said list only by following the already existing Reservation Policies.All admission to MBBS/BDS courses within in the respective categories shall be based solely on marks obtained in the National Eligibility-cum-Entrance Test.

Event	Date
Date of Examination, NEET (UG)	05.5.2013 (Sunday)
Schedule for submission of application forms without late fee	01.12.2012 to 31.12.2012
Date of receipt of confirmation page in CBSE	10.01.2013
Schedule for submission of online application forms with late fee Rs.1000/	01.01.2013 to 31.01.2013
Date of receipt of confirmation page in CBSE for the applications submitted late with fee of Rs.1000/-.	05.02.2013

1. Date of hosting of Admit Card - Applications without Late Fee : 01.04.2013 - Applications with Late Fee : 10.04.2013
2. Date of Examination, NEET (UG) : 05.05.2013(Sunday)
3. Time Schedule National Eligibility Cum Entrance Test (NEET)
 - (a) Entry in the Examination Hall : 9.15 AM
 - (b) Checking of Admit Cards by the invigilator : 9.30 AM to 9.45 AM
 - (c) Distribution of Test Booklet : 9.45 AM
 - (d) Seal of the Test Booklet to be broken/ : 9.55 AM opened to take out the Answer Sheet
 - (e) Test Commences : 10.00 AM
 - (f) Latest Entry in the Examination Hall : 10.00 AM
 - (g) Test Concludes : 01.00 PM
4. Declaration of Results : End of 1st week of June, 2013
5. Material to be brought on the day of examination : Admit Card, Card Board/Clip Board, Post Card Size Photograph and Ball Point Pens of good quality
6. Rough Work : All rough work is to be done in the Test Booklet only. The candidate will do any rough work or put stray mark on the machine gradable Answer Sheet.
7. Writing of particulars on the Test Booklet and responses on the Answer Sheet. List of Government Recognized medical colleges (StateWise)

S.NO	State	Name and Address of medical college
1	Andhra Pradesh	Andhra Medical College, Visakhapatnam
2	Andhra Pradesh	Gandhi Medical College, Hyderabad
3	Andhra Pradesh	Government Medical College, Anantapur
4	Andhra Pradesh	Guntur Medical College, Guntur
5	Andhra Pradesh	Kakatiya Medical College, Wrangal
6	Andhra Pradesh	Kurnool Medical College, Kurnool
7	Andhra Pradesh	Osmania Medical College, Hyderabad
8	Andhra Pradesh	Rajiv Gandhi Institute of Medical Sciences, Kadapa
9	Andhra Pradesh	Rangaraya Medical College, Kakinada
10	Andhra Pradesh	S V Medical College, Tirupati
11	Andhra Pradesh	Siddhartha Medical College, Vijaywada
12	Assam	Assam Medial College, Dibrugarh
13	Assam	Gauhati Medical College, Guwahati
14	Assam	Silchar Medical College, Silchar
15	Bihar	A N Magadh Medical College, Gaya
16	Bihar	Darbanga Medical College, Lehriasarai
17	Bihar	Jawaharlal Nehru Medical College, Bhagalpur
18	Bihar	Nalanda Medical College, Patna
19	Bihar	Patna Medical College, Patna

20	Bihar	Shri Krishna Medical College, Muzzafarpur
21	Chandigarh	Government Medical College, Chandigarh
22	Chhattisgarh	Chhattisgarh Institute of Medical Sciences, Bilaspur
23	Chhattisgarh	Government Medical College, NMDC, Jagdalpur
24	Chhattisgarh	Pt. J N M Medical College, Raipur
25	Delhi (DMC)	All India Institute of Medical Sciences, New Delhi
26	Delhi (DMC)	Lady Hardinge Medical College, New Delhi
27	Delhi (DMC)	Maulana Azad Medical College, New Delhi
28	Delhi (DMC)	University College of Medical Sciences & GTB Hospital, New Delhi
29	Delhi (DMC)	VardhmanMahavir Medical College & Safdarjung Hospital, Delhi
30	Goa	Goa Medical College, Panaji
31	Gujarat	B J Medical College, Ahmedabad
32	Gujarat	Government Medical College, Bhavnagar
33	Gujarat	Government Medical College, Surat
34	Gujarat	Medical College, Baroda
35	Gujarat	MP Shah Medical College, Jamnagar
36	Gujarat	PanditDeendayalUpadhyay Medical College, Rajkot
37	Gujarat	Smt. N.H.L.Municipal Medical College, Ahmedabad
38	Gujarat	Surat Municipal Institute of Medical Education & Research, Surat
39	Haryana	Pt. B D Sharma Postgraduate Institute of Medical Sciences, Rohtak (Haryana)
40	Himachal Pradesh	Dr. Rajendar Prasad Government Medical College, Tanda, H.P
41	Himachal Pradesh	Indira Gandhi Medical College, Shimla
42	Jammu & Kashmir	Government Medical College, Jammu
43	Jammu & Kashmir	Government Medical College, Srinagar
44	Jammu & Kashmir	Sher-I-Kashmir Instt. Of Medical Sciences, Srinagar
45	Jharkhand	M G M Medical College, Jamshedpur
46	Jharkhand	Patliputra Medical College, Dhanbad
47	Jharkhand	Rajendra Institute of Medical Sciences, Ranchi
48	Karnataka	Bangalore Medical College and Research Institute, Bangalore
49	Karnataka	Belgaum Institute of Medical Sciences, Belgaum
50	Karnataka	Govt. Medical College, Mysore
51	Karnataka	Hassan Institute of Medical Sciences, Hassan
52	Karnataka	Karnataka Institute of Medical Sciences, Hubli
53	Karnataka	Mandya Institute of Medical Sciences, Mandya
54	Karnataka	Shimoga Institute of Medical Sciences, Shimoga
55	Karnataka	Vijaynagar Institute of Medical Sciences, Bellary

56	Kerala	Co-operative Medical College, Kochi
57	Kerala	Government Medical College, Kottayam
58	Kerala	Govt. Medical College, Kozhikode, Calicut
59	Kerala	Govt. Medical College, Thrissur
60	Kerala	Medical College, Thiruvananthapuram
61	Kerala	T D Medical College, Alleppey (Allappuzha)
62	Madhya Pradesh	Gajra Raja Medical College, Gwalior
63	Madhya Pradesh	Gandhi Medical College, Bhopal
64	Madhya Pradesh	M G M Medical College, Indore
65	Madhya Pradesh	NetajiSubhash Chandra Bose Medical College, Jabalpur
66	Madhya Pradesh	Shyam Shah Medical College, Rewa
67	Maharashtra	Armed Forces Medical College, Pune
68	Maharashtra	B. J. Medical College, Pune
69	Maharashtra	DrVaishampayan Memorial Medical College, Solapur
70	Maharashtra	Dr. ShankarraoChavan Govt. Medical College, Nanded
71	Maharashtra	Government Medical College, Aurangabad
72	Maharashtra	Government Medical College, Nagpur
73	Maharashtra	Govt Medical College, Akola
74	Maharashtra	Govt. Medical College , Latur
75	Maharashtra	Govt. Medical College, Miraj
76	Maharashtra	Grant Medical College, Mumbai
77	Maharashtra	Indira Gandhi Medical College & Hospital, Nagpur
78	Maharashtra	LokmanyaTilak Municipal Medical College, Sion, Mumbai
79	Maharashtra	RajashreeChatrapatiShahuMaharaj Government Medical College, Kolhapur
80	Maharashtra	Rajiv Gandhi Medical College & ChhatrapatiShivajiMaharaj Hospital, Thane
81	Maharashtra	Seth GS Medical College, Mumbai
82	Maharashtra	ShriVasantRaoNaik Govt. Medical College, Yavatmal
83	Maharashtra	Sri Bhausaheb Hire Government Medical College, Dhule
84	Maharashtra	SRTR Medical College, Ambajogai
85	Maharashtra	Topiwala National Medical College, Mumbai
86	Manipur	Regional Institute of Medical Sciences, Imphal
87	Orissa	MKCG Medical College, Berhampur
88	Orissa	SCB Medical College, Cuttack
89	Orissa	VSS Medical College, Burla
90	Pondicherry	Jawaharlal Institute of Postgraduate Medical Education & Research, Puducherry
91	Punjab	Government Medical College, Amritsar

92	Punjab	Government Medical College, Patiala
93	Punjab	Guru Govind Singh Medical College, Faridkot
94	Rajasthan	Dr SN Medical College, Jodhpur
95	Rajasthan	Government Medical College, Kota
96	Rajasthan	Jawaharlal Nehru Medical College, Ajmer
97	Rajasthan	R N T Medical College, Udaipur
98	Rajasthan	Sardar Patel Medical College, Bikaner
99	Rajasthan	SMS Medical College, Jaipur
100	Tamil Nadu	Chengalpattu Medical College, Chengalpattu
101	Tamil Nadu	Coimbatore Medical College, Coimbatore
102	Tamil Nadu	Government Vellore Medical College, Vellore
103	Tamil Nadu	K A P Viswanathan Government Medical College, Trichy
104	Tamil Nadu	KanyaKumari Government Medical College, Asaripallam
105	Tamil Nadu	Kilpauk Medical College, Chennai
106	Tamil Nadu	Madras Medical College, Chennai
107	Tamil Nadu	Madurai Medical College, Madurai
108	Tamil Nadu	Mohan Kumaramangalam Medical College, Salem
109	Tamil Nadu	Perunthurai Medical College and Institute of Road Transport, Perunthurai
110	Tamil Nadu	Stanley Medical College, Chennai
111	Tamil Nadu	Thanjavur Medical College, Thanjavur
112	Tamil Nadu	Theni Government Medical College, Theni
113	Tamil Nadu	Thoothukudi Medical College, Thoothukudi
114	Tamil Nadu	Tirunelveli Medical College, Tirunelveli
115	Tripura	Agartala Government Medical College, Agartala
116	Uttar Pradesh	BRD Medical College, Gorakhpur
117	Uttar Pradesh	ChhatrapatiShahujiMaharaj Medical University, Lucknow
118	Uttar Pradesh	GSVM Medical College, Kanpur
119	Uttar Pradesh	Institute of Medical Sciences, BHU, Varansi
120	Uttar Pradesh	Jawaharlal Nehru Medical College, Aligarh
121	Uttar Pradesh	LLRM Medical College, Merrut
122	Uttar Pradesh	Maharani LaxmiBai Medical College, Jhansi
123	Uttar Pradesh	MotiLal Nehru Medical College, Allahabad
124	Uttar Pradesh	S N Medical College, Agra
125	Uttar Pradesh	U.P. Rural Institute of Medical Sciences & Research, Etawah
126	Uttaranchal	Govt. Medical College (Prev.Uttarakhand Forest Hospital Trust Med.Col.), Haldwani
127	West Bengal	BankuraSammilani Medical College, Bankura

128	West Bengal	Burdwan Medical College, Burdwan
129	West Bengal	Calcutta National Medical College, Kolkata
130	West Bengal	Institute of Postgraduate Medical Education & Research, Kolkata
131	West Bengal	Medical College, Kolkata
132	West Bengal	Midnapore Medical College, Midnapore
133	West Bengal	NilratanSircar Medical College, Kolkata
134	West Bengal	North Bengal Medical College, Darjeeling
135	West Bengal	RG Kar Medical College, Kolkata

For details on the private medical colleges all over Indian please visit <http://www.mciindia.org/InformationDesk/MedicalCollegeHospitals/ListofCollegesTeachingMBBS.aspx>

Other courses in medicine:

Bachelor of Homeopathic Medicine & Surgery (B. H. M. S):B.H.M.S is an undergraduate course in homeopathy. The homeopathic education in India is presently regulated by the National Institute of Homeopathy.

Duration: 5.5 years

Eligibility: Candidates should be XIIth pass or equivalent with science subjects from recognized Board.

Bachelor of Ayurvedic Medicine and Surgery (B. A. M. S):B. A. M. S is an undergraduate course in Ayurveda **discipline**. The Ayurvedic Education in India is presently regulated by the Central Council of Indian Medicine (CCIM).

Duration: 5.5 years

Eligibility: Candidates should be XIIth pass or equivalent with science subjects from recognized Board.

Career opportunities in Paramedics

Paramedics can be defined as a practice in the field of medical science that deals with pre-hospital emergency services. A person working in this field is referred to as paramedic.

Pharmacy: This science deals with collection, preparation and standardisation of drugs. Pharmacists are trained experts in medicines. As healthcare professionals they are responsible for dispensing prescribed medicines to patients and providing information about the drugs. Thus, they have an important role in safety and effective use of medication. In addition to dispensing drugs, they are also concerned with drugs discovery, manufacturing of drugs and quality control of pharma products.

Programmes: DPharm, BPharm, MPharm, PharmD

Best Institutes: DIPSRA, Delhi; JamiaHamdard, Delhi; IT BHU, Varanasi; Bombay College of Pharmacy, Mumbai; Annamalai University, Tamil Nadu Job Profiles: Pharmacist, Chemist, Medical Representative, Researcher, Drug inspector, Scientist etc.

For colleges please visit : <http://www.pci.nic.in/ForStudent.aspx>

Medical Lab Technicians: Medical Lab Technicians work on doctor's instructions. They prepare

specimens and operate on machines to analyse samples.

Based on results released by lab technicians and technologists together, clinical management of a patient is decided. They must be well-versed in lab safety protocol and have knowledge of all branches of medical science.

Programmes: BMLT, DMLT, BVSc, BSc (Plant Science)

Best Institutes: CMC Vellore; College of Allied Health Sciences, Manipal; Indira Gandhi KrishiVishwavidyalaya, Anjora; GB Pant University of Agriculture Science & Technology, Pantnagar; National Institute of Mental Health and Neuro Sciences, Bangalore; Indian Agricultural Research Institute, Delhi
Job Profiles: Medical Lab Technician, Researcher, Consultant, Vet Pathologists

The Radiographer : Radiologists need the assistance of a radiographer to carry out various imaging and scans.

Programmes: BSc Medical Imaging Technology, BSc Radiography, MSc Medical Imaging Technology
Best Institutes: AIIMS, New Delhi; CMC, Vellore; PGI of Medical Sciences Chandigarh; Apollo Institute of Hospital Management & Allied Health Sciences; Manipal University
Job Profiles: Imaging, X-Ray Technicians, Scientific Assistants, Clinic Assistants, Entrepreneurs etc.

Nursing the Sector:

The World Health Organisation recommends 2.5 doctors, nurses and mid-wives for every 1,000 people. The UK and USA have more than 12, whereas India has only 1.6. The domestic healthcare industry is in need of nurses. The sector offers ample employment opportunities.

Bachelor of Science in Nursing is an undergraduate degree in nursing. Students are trained in basic principles & practices of nursing, community health nursing, general psychology, pharmacology, medical surgical nursing, maternity nursing, nursing administration etc.

Duration: 4 years

Eligibility: Candidates should be XIIth pass or equivalent with a minimum of 45% marks in science subjects from a recognized board.

Qualification: B.Sc Nursing. 4-year degree programme, General Nursing & Midwifery course (3.5 years). For further education: MSc, MPhil, PhD.

Visit: <http://www.indiannursingcouncil.org/types-nursing-programs.asp>

Colleges: Raj Kumari Amrit Kaur College of Nursing, Delhi, AIIMS, Safdarjung Hospital, St. Stephens Hospital (Delhi), Bharati Vidyapeeth's College of Nursing (Pune), National Institute of Mental Health and Neurosciences (Bangalore), N.I.N.E PGIMER, (Chandigarh) CMC,(Vellore).

See the list of INC recognised colleges @ www.indiannursingcouncil.org/Recognized-Nursing-Institution.asp

Physiotherapy: Healing without drugs:

Bachelor of Physiotherapy (B.P.T): B.P.T is a bachelor degree program in physiotherapy taken after class XII. Physiotherapy mainly deals with mobilization, manual therapy, exercise, science and the application of electro physical modalities. Physiotherapist is consulted for degenerative disorder, physically challenged, neurological disorders and sports professionals.

Duration: 4 years inclusive of 6 months Internship

Eligibility: Candidates should be XIIth pass or equivalent with 50% marks in science subjects from a recognized board.

Programmes: BPT, MPT

Job Profiles: Independent practitioner; physiotherapists in hospitals, rehab centres & special schools

Admissions are generally based on the entrance examination conducted both at the State and national level. After BPT one can pursue a postgraduate degree (MPT) in this field.

Institute	Course	Website
Indian Institute of Health Education & Research, Patna	BPT, MPT, Diploma in Physiotherapy	www.iiher.org
Government Medical College, Nagpur	BPT, MSc (Physiotherapy)	www.gmcnagpur.org.in
Post Graduate Institute of Medical Education and Research, Chandigarh	BPT	http://pgimer.nic.in
Guru GobindIndraprastha University, New Delhi	BPT	www.ipuniversity.com
KEM Hospital, Mumbai	BSc P.Th	www.kem.edu
M S Ramaiah Institute of Physiotherapy, Bangalore	BPT	www.msrmc.ac.in
JSS College of Physiotherapy, Mysore	BPT, MPT	http://jssedu.jssonline.org
Mahatma Gandhi University Medical College, Kottayam	BPT	http://mgu.ac.in
M.G.M. Medical College, Indore	BPT	www.mgmmcindore.co.in
College of Physiotherapy, Ahmednagar	BPT, MPT	www.pravara.com
K.J. Somaiya College of Physiotherapy & Research Centre, Mumbai	BPT	www.somaiya.edu
National Institute of Rehabilitation Training and Research, Cuttack	BPT, MPT	http://nirtar.nic.in
Dr. D.Y.Patil College of Physiotherapy	BPT, MPT	http://dypatiluniversity.org
Department of Physiotherapy, Guru Nanak Dev University, Amritsar.	BPT, MSPT	http://department.gndu.ac.in
Garden City College of Physiotherapy, Bangalore	BPT, MPT	www.gardencitycollege.edu
Pt Deendayal Upadhyaya Institute of physically Handicapped, New Delhi	BPT	www.iphnewdelhi.in
Rajiv Gandhi University of Health Sciences	MPT	www.rguhs.ac.in

Bachelor of Occupational Therapy: B.O.T is an undergraduate degree in medicine. Students are trained in human growth and development with particular emphasis on the psychological, socio-cultural, emotional, cognitive, physical and environmental components of various illnesses and injuries.

Duration: 4 years

Eligibility: Candidates should be XIIth pass or equivalent with science subjects from recognized Board. Speech Therapists and Audiologists: Helping individuals cope with limitations is very rewarding

Duration: 3 years;

Eligibility: 10+2 with Physics, Chemistry and Biology (may vary);

Job profiles: Speech Therapist, speech language specialist, Audiologists in a hospital, school, social welfare department or NGOs. Salaries vary and working abroad is a strong possibility too.

COLLEGES IN INDIA OFFERING COURSES IN SPEECH THERAPY

Institution/University	Course
Postgraduate Institute of Medical Education and Research, Sector 12, Chandigarh 160012	B.Sc
All India Institute of Medical Sc., Ansari Nagar, New Delhi 110029	B.Sc and M.Sc
University of Bombay, Ali Yavar Jung National Institute for the Hearing Handicapped Kishen Chand Marg, Bhandra (West), Mumbai 400050	B.Sc and M.Sc
TN Medical college, BYL Nair Charitable Hosp., Mumbai 400008	B.Sc and M.Sc.
University of Chennai , Centenary Building , Chepauk, Chennai 600005	B.Sc and M.Sc
University of Mysore, Mysore Vishwavidyalaya , KaryaSaudha, Crawford Hall, PB No. 17, Mysore 570005, Karnataka	B.Sc and M.Sc
Kasturba Gandhi Medical College, Manipal	B.Sc
Institute of Nursing, AB ShettyMarg Mangalore	B.Sc
Institute of Speech & hearing, Hannur Road, Bangalore	B.Sc
All India Institute & Special Hearing, Mansazangolhri, Mysore 576006	B.Sc and M.Sc
Indian Inst. Of Health Education, Near Control Jail, Berur, Patna 800002	B.Sc
Medical Trust Hospital, MG Road Cochin 582016	Diploma
Sri Ram Chandra Medical Inst. Porur, Chennai 600010	B.Sc

Optometry: is a primary eye care profession.

Programmes: Bachelor of Science (BS) Optometry, Master of Philosophy (MPhil) Optometry, Doctor of Philosophy (PhD) Optometry;

Specialisations: Contact Lenses, Low Vision, Binocular Vision, Glaucoma, Occupational Optometry;

Institutes: Elite School of Optometry (Shankar Netralya); Bausch and Lomb School of Optometry; BITS, Pilani;

Job roles: Optometrist at eye hospitals/clinics, product executive & trainers, entrepreneurs

- All India Institute of Medical Sciences, Ansari Nagar, New Delhi-16 - B.Sc. (Hons) Ophthalmic technology 3 yrs
- Ancillary Medical Training School, Medical College Complex Jammu - Diploma (Ophthalmic Assistant) 2 years

- Andhra Medical College, Vishakhapatnam - Ophthalmic Assistant 1 yr
- Assam Medical College, Dibrugarh 786002 - Diploma (Ophthalmic Assistant) 2 yrs
- Birla Institute of Tech. Science, Pilani 333031 - B.Sc. Optometry, 4 years
- BRD Medical College, Gorakhpur - Certificate (Ophthalmic Assistant) 2 yrs
- BS Medical College, Bankura 722102
- Dean Medical College, Bhopal - Certificate (Opticians/Ophthalmic Assistant) 2 yrs
- Dean Medical College, Gwalior
- Dean Medical College, Raipur
- Gandhi Eye Hospital, Aligarh - Diploma (Optometrist) 2 years
- Gandhi Eye Hospital, Aligarh (Govt. aided Institution) - Diploma Ophthalmic 2 years
- Government Medical College and Hospital, Surat - Certificate (Ophthalmic assistant) 2½ years
- Government Medical College, Nagpur - Diploma Optometry, 2 years
- Government Ophthalmic Hospital, Egmore, Chennai - Diploma Optometry
- Govt. Medical College Aurangabad - Diploma Optometry, 2 years
- Govt. Medical College, Patiala
- Govt. Medical College, Srinagar - Diploma (Ophthalmic Assistant) 2 years
- Guhawati Medical College, Dispur, Guhawati 781032
- Haryana Medical College, Rohtak 124001 - Diploma Ophthalmic assistant
- Indira Gandhi Medical College, Shimla
- Kakatiya Medical College, Warangal 506007 - Diploma Ophthalmic Assistant
- Karnataka Medical College, Hubli - Diploma Ophthalmic Assistant
- Kurnool Medical College Kurnool 518002
- M & J Institute Civil Hospital, Ahmedabad - Certificate (Ophthalmic assistant) 2½ years
- Madurai Medical College, Madurai - B.Sc. in Optometry 4 yrs and Diploma (Orthoptists) 2 yrs
- MD Eye Hospital, Gorakhpur - Certificate (Ophthalmic Assistant) 2 yrs
- Medical College, Behrampur 760004
- Medical College, Calicut - Certificate (Ophthalmic Assistant) 2 yrs
- Medical College, Cuttack 753007 - Diploma Ophthalmic Assistant
- Medical College, Kottayam - Certificate (Ophthalmic Assistant) 2 yrs
- Medical College, Trivandrum - Certificate (Ophthalmic Assistant) 2 yrs
- Minto Regional Institute of Ophthalmology, Bangalore - Diploma (Optician & Refractionist) 2 yrs.
- ML Bai Medical College, Allahabad 211002 - Diploma Ophthalmic Assistant
- MLN Medical College, Allahabad 211002 - Diploma Ophthalmic assistant
- North Bengal Medical College, Darjeeling 734432
- Patna Medical College, Patna 800004 - Diploma Ophthalmic Assistant
- Punjab Medical College, Amritsar
- Regional Medical College, Imphal 795001 - Diploma Ophthalmic Assistant
- Rotary Eye Institution, Dudhiya Talow, Navasri, Dist. Valsad - Certificate (Ophthalmic assistant) 2½ years
- SankarNetralaya, Medical Research Foundation, Chennai
- School of Optometry, Medical College Calcutta - Diploma (Ophthalmic Assistant) 2 yrs
- School of Optometry, S.D. Eye Hospital, Humayun Nagar Hyderabad - Optometrist
- School of Optometry, S.D. Eye Hospital, Humayun Nagar Hyderabad - Diploma in Optometry
- Sitapur Eye Hospital, Aligarh - Diploma (Optometrist) 2 years
- Sitapur Eye Hospital, Sitapur (Govt. Aided Institution) - Diploma Ophthalmic 2 years
- SMS Hospital, Jaipur
- Thanjavur Medical College, Thanjavur 613004

CAREER IN ENGINEERING

ENGINEERING ENTRANCE EXAMINATION -2013

JEE-MAIN 2013

1. The admission to Undergraduate Engineering Programs at NITs, IITs, other centrally funded Technical Institutions, Institutions funded by several participating State Governments, and several other Institutions shall include the performance in the Joint Entrance Examination, JEE (Main). The JEE (Main) will also be an eligibility test for the JEE (Advanced), which the candidate has to take if he/she is aspiring for admission to the undergraduate programmes offered by the IITs.
2. For admission to NITs, Centrally Funded Technical Institutions (CFTIs) like IITs etc. and other participating Institutions, the merit/rank list shall be prepared based on 40% weightage to school Boards marks in class 12th or equivalent examination and 60% weightage to JEE(Main). The weightage to school Board/Equivalent examination marks shall be considered only after normalization.

3. Mode of Examination

The Paper-1 (described below) of JEE (Main) will be conducted in two separate modes i.e. Offline (Pen and Paper Based Examination) mode and Online (Computer Based Examination) mode. The Paper-2 of JEE (Main) will be conducted only in Pen and Paper based examination mode. A candidate will opt for either Pen and Paper Based or Computer Based examination modes for Paper-1 only.

Type of Examination

JEE (Main) – 2013 shall have two papers, Paper-1 and Paper-2. Candidates may take Paper-1, or Paper-2, or both as per the course(s) they are seeking admission to. Subject combination for each paper, type of questions in each paper and mode of examination available is given in the table below.

	SUBJECTS	TYPE OF QUESTIONS	MODE OF EXAM
Paper 1	Physics, Chemistry & Mathematics	Objective type with equal weightage to Physics, Chemistry & Mathematics	Pen and Paper based OR Computer based
Paper 2	Mathematics – Part I Aptitude Test – Part II & Drawing Test – Part III	Objective type Objective type Questions to test drawing aptitude	Only Pen and Paper based

Requirement of papers for different courses is given in the table below.

COURSE	PAPERS
B.ARCH/B. PLANNING(At Institutions other than IITs)	Paper –2
All other undergraduate courses	Paper –1

Schedule of Examination

A. Offline examination (Pen and Paper Based Examination) for Paper 1 and Paper 2

Date of Examination	Paper	Subjects	Timings	Duration
07.04.2013	Paper 1	Physics, Chemistry & Mathematics	0930-1230 Hours(IST)	3 Hours

Date of Examination	Paper	Subjects	Timings	Duration
07.04.2013	Paper 2	Mathematics – Part I Aptitude Test – Part II & Drawing Test – Part III	1400-1700 Hours(IST)	3 Hours

B. Online examination (Computer Based Examination) for Paper 1 Only

Date of Examination	Paper	Subjects	Timings	Duration
During 08.04.2013 and 25.04.2013	Paper 1	Physics, Chemistry & Mathematics	1st shift 0900-1200 Hours (IST) 2nd shift (*) 1400-1700 Hours (IST) *If required	3 Hours

*The exact slots/dates for computer based examination shall be displayed on the website by 1st February 2013. The candidates will be required to make their slot/date selection through online mode during 1st February 2013 – 15th February 2013. A candidate who opts for computer based examination and does not make this selection, for whatever reasons, shall be randomly assigned a slot based on the availability,

JEE ADVANCED -2013

<http://jee.iitd.ac.in/>

Admission to all undergraduate programmes in these institutions for Indian and Foreign nationals will be made through a Joint Entrance Examination (Advanced) - 2013. Only the top 1,50,000 candidates (including all categories) who qualify in Paper - I of JEE (Main) - 2013 are eligible to appear in JEE (Advanced) - 2013. JEE (Main) - 2013 will be conducted by JEE Apex Board during the month of April, 2013. (Details of JEE (Main) - 2013 are available at <http://www.jeemain.nic.in>).

2. ABOUT JEE (Advanced) - 2013 JEE (Advanced) - 2013 will be jointly conducted by IIT Bombay, IIT Delhi, IIT Guwahati, IIT Kanpur, IIT Kharagpur, IIT Madras and IIT Roorkee. These institutes are henceforth referred to as the zonal IITs. The details of the pattern and the dates of examination, eligibility criteria and how to apply are outlined below.

2.1 Schedule

The JEE (Advanced) - 2013 examination will be held on Sunday, 02 June 2013 as per the schedule given below:

Paper 1: 09.00 to 12.00 hrs (IST)

Paper 2: 14.00 to 17.00 hrs (IST)

The schedule will remain unaltered even if the above day is declared a public holiday.

Procedure for selecting the candidates who are eligible to appear for JEE (Advanced) – 2013.

The following procedure will be used for selecting the 1,50,000 candidates who will be eligible to appear for JEE (Advanced)- 2013 based on their performance in JEE (Main) -2013.

1. 50.5% of the 1,50,000 (75,750 candidates) will be taken from the top rankers of the Common Merit List (CML) of JEE (Main). 27% (40,500), 15% (22,500) and 7.5% (11,250) candidates will be taken from the top rankers of the category rank lists of OBC-NCL, SC and ST, respectively. The candidates figuring in the category rank lists will be those who do not figure in the 75,750 candidates chosen from the CML.
2. 3% of the candidates selected within each category will be those belonging to PwD (Persons with Disability) sub-category, who figure in the respective rank lists of JEE (Main).
3. Only the candidate's aggregate marks in JEE (Main) will be considered and no tie-break mechanism will be implemented at this stage. This will make the list of candidates eligible to appear in JEE (Advanced)-2013 slightly more than 1,50,000 due to bunching of candidates with the same aggregate marks at the bottom of each category.

Statewise Entrance Exams

I. KERALA

1. KERALA ENTRANCE -2013

Stream	Subject	Date	Time
Engineering	Paper-1:Physics&chemistry	22.04.2013 (Monday)	10 AM - 12.30 PM
	Paper-2:Mathematics	23.04.2013 (Tuesday)	10 AM - 12.30 PM
Website	http://cee-kerala.org/index.php/keam/keam2013/exam-2013		
Eligibility	50% marks in Mathematics separately, and 50 % marks in Mathematics, Physics and Chemistry put together are eligible for admission		
Online application starting date	14-01-2013 at www.cee.kerala.gov.in		
Last date and time for receipt of the Print out of the Application :	5 p.m. on 09.02.2013 (Saturday), by Hand Delivery/Registered Post/Speed Post.		
B.Arch.	The CEE will not conduct any Entrance Examination for admission to B.Arch. course. However, candidates seeking admission to B.Arch. course should compulsorily appear and qualify the National Aptitude Test in Architecture (NATA) conducted by the National Institute of Advanced Studies in Architecture (NIASA). Such candidates should also apply online through the website of the Commissioner for Entrance Examinations, ww.cee.kerala.gov.in within the specified date mentioned in this notification.		

1. CUSAT EXAM -2013 Cochin University of Science and Technology

	SUBJECT	DATE	TIME
All B.Tech. Programmes	The test(Test 101) comprises of 250 objective type multiple choice questions based on Plus Two syllabus. Of this, 125 questions will be from Mathematics and 125 questions will be from Physics and Chemistry with physics to chemistry ratio maintained at 3:2	12-05-2013	3:00 HOURS
NRI QUOTA	10% seats are reserved as N.R.I. Quota in each branch of all B.Tech courses in School of Engineering, Cochin University College of Engineering and Kunjali Marrakar School of Marine Engineering. Candidates applying under this quota are required to remit Rs.5000/- in addition to the normal application fee of Rs.950/- as prescribed in the Notification. All applicants under the N.R.I. quota will have to qualify in the Common Admission Test conducted by CUSAT and fulfill all eligibility criteria.		
Eligibility	Pass in the Plus Two Examination of the State of Kerala with Mathematics, Physics and Chemistry as optional subjects or anyother examination accepted as equivalent thereto securing a minimum of 50% marks in Mathematics and 50% marks in Mathematics, Physics and Chemistry put together.		
Online application starting date	20-Jan-2013 to 11-Feb-2013 www.cusat.nic.in or www.cusat.ac.in		
Downloading the Admit Card from www.cusat.nic.in (For B.Tech. programme	24.04.2013 TO 12.05.2013		

State 2 - Andhra Pradesh :EAMECT-2013

	SUBJECT	DATE	TIME
All B.Tech. Programmes	The question paper consists of a total 160 questions comprising of a total of 80 questions in Mathematics, 40 questions in Physics and 40 questions in Chemistry. All questions are objective type (multiple choice) only and each question carries one mark.	10-MAY-2013	3:00 HOURS
Eligibility	Pass in the Plus Two Examination		
Online application starting date	To be announced. www.apeamcet.org		

State -3 Karnataka Common Entrance Test

	SUBJECT	DATE
All B.Tech. Programmes	Physics , chemistry and maths each carry 60 marks and kannada language test.	To be announced.
Eligibility	Domicile of Karnataka state, Physics, Chemistry and Maths with aggregate minimum of 45% marks	
Application starting date	To be announced http://www.kar.nic.in	

ii. Manipal University

	SUBJECT	DATE	time
All B.Tech. Programmes	Test consists of 240 multiple choice questions (MCQ) of the objective type. The approximate distribution of questions is as follows: Physics - 60 questions, Chemistry - 60 questions, Mathematics - 80 questions, English & General Aptitude - 40 questions.	15.04.2013 to 15.05.2013	The test duration is of 2.30 hrs
Eligibility	Pass in the Plus Two Examination with PCM		
Online test booking schedule	21-03-2013 to -28-03-2013 www.manipalotbs.com		
Last date for receipt of applications	11.03.2013		

iii. COMEDK exam

	SUBJECT	DATE	time
All B.Tech. Programmes	Physics and chemistry There will be a total of 120 objective type questions 60 questions from each subject.	12-may-2013	120 mins
	Mathematics The test consists of 60 questions	12-may-2013	60min
Eligibility	Non-domicile of Karnataka state candidate are not eligible to write CET exam but can write only COMEDK exam which is held every year by the Karnataka Private Medical & Dental Colleges Association under the name of Consortium of Medical, Engineering and Dental Colleges of Karnataka (COMEDK). So this is the main difference between CET and COMEDK examination of Domicile of Karnataka state.		

Online Application	To be announced For more information: http://www.comedk.org/
Last date for receipt of applications	To be announced For more information: http://www.comedk.org/

State -3 Tamil Nadu

(ii). SRM UNIVERSITY ENTRANCE EXAM-2013

	SUBJECT	DATE	time
All B.Tech. Programmes	PART 1 – PHYSICS) PART 2 – CHEMISTRY PART 3 – MATHEMATICS Each carry 35 Questions	Entrance Examination a) Paper – Pencil examination 20th April 2013	
		b) Online examination 20th & 21st April 2013	
Eligibility	<p>A pass in 10+2 or its equivalent and</p> <p>(a) For all programs: Minimum 70% aggregate in mathematics, physics & chemistry</p> <p>(b) For biotechnology, Bioinformatics, Biomedical Engineering and Genetic Engineering: Minimum 70% aggregate in Mathematics / Biology, Physics and Chemistry.</p>		
Online Application	Use the URL www.srmuniv.ac.in/apply , register and pay online.		
Last date for receipt of applications	15th March 2013		

iii. VIT ENTRANCE EXAM -2013

	SUBJECT	DATE	time
All B.Tech. Programmes	PART-I – Physics PART-II – Chemistry PART-III – Mathematics <input type="checkbox"/> Please refer slot booking for further details in www.vit.ac.in from March '2013 onwards <input type="checkbox"/> Each part has 40 questions and each question carries one mark. Each question is followed by 4 alternative answers. The candidate will have to choose the correct answer and click the same. No negative marks for wrong answers. <input type="checkbox"/> (computer based test)	15th April, 2013 to 30th April 2013	2 hours 30 minutes.
Eligibility	Candidates appearing for the VITEEE in 2013 should have secured an aggregate of 60% in Physics, Chemistry, Mathematics / Biology in the qualifying examination (+2/Intermediate).		

Online Application	Started https://academics.vit.ac.in/online_application/viteee2013/default.asp
Last date for receipt of applications	28th Feb, 2013

iv. Amrita Entrance Examination - Engineering 2013

	SUBJECT	DATE	time
All B.Tech. Programmes	Mathematics - 60 questions Physics - 30 questions Chemistry - 30 questions Total No. of Questions - 120 questions Total Marks (120 x 3) = 360 marks	The 2013 entrance exam is scheduled for Sunday, 21st April 2013 (FN).	3 hours (10 AM to 1 PM).
Eligibility	A pass in the Higher Secondary (Plus Two) examination of a recognised Board or its equivalent, securing 60% or above marks in Mathematics, 55% or above separately in Physics and Chemistry with an aggregate of minimum 60% in the three subjects.		
Online Application	21 - 12 - 2012 to 18 - 03 - 2013		
Last date for receipt of applications	20 - 03 - 2013		

State -4 MAHARASHTRA

NOTIFICATION : <http://dte.org.in/MTCET2013/StaticPages/HomePage.aspx>
 Eligibility Criteria for Foreign National/Foreign student/ PIO/Children of Indian workers in the Gulf countries/Children of NRI:

The candidate also needs to secure minimum 50% marks i.e. not less than 150 marks out of 300 marks in the subjects Physics, Chemistry and Mathematics added together.

Its is not required to appear for the MHT-CET

Important Factors for the NRI Candidates:

If you are an NRI candidate, then you are eligible to apply for admission in Unaided Private Engineering Colleges/Institutes. For the NRI candidates there is only 15% scheduled intake capacity.

State -5 UTTERPRADESH: UPSEE-2013

	SUBJECT	DATE	Time
All B.Tech. Programmes	Physics , chemistry and mathematics	20-04-2013 21-04-2013	3 hours
Eligibility	A pass in the Higher Secondary (Plus Two) examination of a recognised Board or its equivalent, securing 45% physics , chemistry and mathematics. Note: A identified institutions shall admit FN/PIO/CIWGC up to the extent sanctioned by AICTE as per the eligibility criteria and guidelines of the University. These supernumerary seats shall be exclusively meant for the FN/PIO/CIWGC students in undergraduate courses with the condition that under no circumstances a seat remained unfilled shall be allocated to candidates other than a FN/PIO/CIWGC. The candidates, opting for admission under this quota, need not appear in UPSEE-2013.		
Online Application	To be announced www.upsee.nic.in		
Last date for receipt of applications	To be announced www.upsee.nic.in		

BITSAT-2013 <http://www.bitsadmission.com>

	SUBJECT	DATE	Time																				
All B.Tech. Programmes (Bits pilani, Bits Hydrabad & Bits Goa Campus)	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Subject</th> <th style="text-align: left;">No of questions</th> <th></th> </tr> </thead> <tbody> <tr> <td>Part I</td> <td>Physics</td> <td style="text-align: right;">40</td> </tr> <tr> <td>Part II</td> <td>Chemistry</td> <td style="text-align: right;">40</td> </tr> <tr> <td rowspan="2">Part III</td> <td>(a) English Proficiency</td> <td style="text-align: right;">15 10</td> </tr> <tr> <td>(b) Logical Reasoning</td> <td></td> </tr> <tr> <td>Part IV</td> <td>Mathematics</td> <td style="text-align: right;">45</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total:</td> <td style="text-align: right;">150</td> </tr> </tbody> </table>	Subject	No of questions		Part I	Physics	40	Part II	Chemistry	40	Part III	(a) English Proficiency	15 10	(b) Logical Reasoning		Part IV	Mathematics	45	Total:		150	Online test 14th May – 1st June 2013.	3 hours
Subject	No of questions																						
Part I	Physics	40																					
Part II	Chemistry	40																					
Part III	(a) English Proficiency	15 10																					
	(b) Logical Reasoning																						
Part IV	Mathematics	45																					
Total:		150																					
Eligibility	the candidate should have passed the 12th class examination of 10+2 system from a recognized Central or State board or its equivalent with Physics, Chemistry and Mathematics. Further, the candidate should have obtained a minimum of 75% aggregate marks in Physics, Chemistry and Mathematics subjects in 12th class examination, at least 60% marks in each of the Physics, Chemistry, and Mathematics subjects and adequate proficiency in English. Note: Students who appear for BITSAT-2013 may also seek admission to the Dubai campus of BITS Pilani. For more details see: http://universe.bits-pilani.ac.in/dubai																						
Online Application	Started http://www.bitsadmission.com																						
Last date for receipt of applications	15-02-2013 5:00pm																						

NATA EXAM National Aptitude Test For Architecture

<http://www.nata.in/www/Home.aspx>

Detailed Information about NATA 2013 will be available on this website around 15 February 2013. Visitors are advised to get the updated information about NATA 2013 by visiting back to this website around 15 February 2013.

WHAT IS NATA

The National Aptitude Test in Architecture (NATA) measures the aptitude of the applicant for specific field of study, i.e. Architecture. The test measures drawing and observation skills, sense of proportion, aesthetic sensitivity and critical thinking ability, that have been acquired over a long period of time, and that are related to specific field of study, i.e. Architecture.

Eligibility

Candidates having 50% marks in 10+2 or equivalent examination with mathematics as one of the subject, only are eligible for admission to B.Arch.Course.

Who should take NATA and Why?

Prospective applicants desirous of taking admission to First year of undergraduate course in Architecture (Bachelor of Architecture) in India take NATA. NATA scores are used by admissions authorities of different Government, Govt. Aided & unaided schools / colleges of Architecture, to provide common measure for comparing the qualifications of applicants for admission in addition to their scholastic performance in 10+2 or equivalent examination.

Where to appear for NATA?

NATA is offered over major part of admission season at designated Test Centers located at colleges / schools of architecture in India.

Direct Admission of Students Abroad(DASA)

WWW.DASANIT.ORG

Foreign Nationals / Persons of Indian Origin (PIOs) / Non-Resident Indians (NRIs) under Direct Admission of Students Abroad (DASA) Scheme to Undergraduate Courses in Engineering in National Institutes and other premier Technical Institutions in India

The admissions of foreign nationals and Indian students studying abroad to undergraduate Engineering programs in Centrally Funded Institutions (CFIs) is being done under DASA (Direct Admission of Students Abroad) scheme from the academic session 2001-02 onwards. The Ministry of Human Resource Development, Government of India has entrusted the coordination of the admission process under DASA scheme to NITK, Surathkal from academic year 2010-11 vide an official order.

The academic eligibility criteria for candidates seeking admission under DASA scheme for the 13, is same as last years (i.e DASA 2011-12). Candidates who have secured 60% aggregate marks or 10 point grade or equivalent grades in all subjects of qualifying examination i.e. senior secondary and have a valid SAT Subject Test (earlier known as SAT II) score (in subjects Physics, Chemistry level –II) with a minimum score of 1440 are eligible

Residential Requirement:

Candidates must be Foreign Nationals / Persons of Indian Origin (PIOs) studying in any country (including India) / Indian Nationals studying abroad. In case of Indian Nationals studying abroad they at least 2 (two) academic years of education in a Foreign country and must pass the qualifying (inclusive of 11th and 12th standard or equivalent) from abroad only.

All candidates must satisfy the following academic qualifications: Candidates must have passed the qualifying examination, i.e. Senior Secondary [10+2] or equivalent [See Appendix-I] from any system of education as recognized by the Association of Indian Universities (website: www.aiuweb.org) with Physics and Mathematics as compulsory subjects and any one of Chemistry, Bio-Technology, optional subjects.

AND

Must have secured a minimum of at least 60% aggregate marks(average of all subjects taken together) or 6.75 CGPA on a 10 point scale or equivalent grades in the qualifying examination. (Candidates appearing for the qualifying examination with the above-mentioned compulsory subjects in the academic year 2011-12 may also apply.)

AND

Candidates having valid SAT Subject Test scores (Maths level II, Physics and Chemistry) with a minimum score of 51440 are eligible. SAT subject test scores have to be submitted through College Board to NITK, Surathkal(Designated Institute Code : 6530). Internet downloaded score cards are not acceptable. Candidates at the time of registration for SAT Subject Test should indicate DI code: 6530 for sending their scores to NITK Surathkal.Candidates who have taken multiple attempts in SAT Subject Test can send each score to NITK Surathkal directly through college board USA. The best score in each subject will be considered for arriving at the total score which will be used for merit list preparation .For more details on SAT Subject Test scores visit website: www.collegeboard.com

The following decisions are taken in the DASA stake holders meeting held on 26.11.2012 at MHRD NewDelhi.

1. SAT II (SAT Subject Test)scores (Physics, Chemistry and Maths Level II) only will be used for merit list preparation.
2. Valid SAT II scores, till May 2013 exam which must reach NITK Surathkal electronically through College Board USA, using DI code 6530 on or before 29.05.2013 only will be considered for first 3 Rounds of merit list preparation.
2. Schedule of admission is as follows.

1.	Submission of Online application April 01, to May 25, 2013
2.	Last date for receipt of SAT Subject Test Score /hard copy of
3.	the completed application
4.	May 29 , 2013
5.	Announcement of first list of selected candidates June 01, 2013
6.	Confirmation by first list candidates June 01, to June 07, 2013
7.	Announcement of second list June 08, 2013
8.	Confirmation by second list candidates June 08, to June 14,2013
9.	Announcement of third list June 15, 2013
10.	Confirmation by third list candidates June 15, to June 18, 2013
11.	Reporting to allotted Institutes July 18, to July23, 2013
12.	Announcement of vacant seat matrix for Spot round July 25, 2013
13.	Spot admissions against vacant seats July 30, 2013
14.	Reporting to allotted Institutes in spot admission July 31, to August 06,2013

The details of academic eligibility, residential eligibility and fee payment etc., will be published on DASAwebsite shortly.

Scholarship Programme For Diaspora Children [Spdc]

The Ministry of Overseas Indian Affairs (MOIA), Government of India, launched a scheme called “Scholarship Programme for Diaspora Children” (SPDC), in the academic year 2006-2007, for the wards of Persons of Indian Origin (PIOs) and Non-Resident Indians (NRIs) to assist them in pursuing Under Graduate University Education in India. EdCIL (India) Limited, a Government of India Enterprise, has been designated as the “Nodal Agency” for implementation of the SPDC.

SCHEME

The SPDC is applicable to undergraduate studies in Professional and Non-Professional courses (except Medical and related courses). Assistance provided under comprises of financial assistance, primarily towards tuition fee, admission fee and post admission services as mentioned herein after. The scheme is applicable to Indian Diaspora from 40 select countries, having larger concentration of Persons of Indian origin, as listed at Appendix-A. For the purpose of the SPDC, the Indian Diaspora shall comprise of PIOs and NRIs, as specified in Appendix-B. Scholarship shall be provided to 100 selected students as per the

following distribution:

Non-Resident Indians (NRIs) - 50 (Fifty)

Persons of Indian Origin (PIOs) - 50 (Fifty)

ELIGIBILITY CRITERION FOR ADMISSION :

Date of Birth: The SPDC is open for applicants in the age group of 17 to 21 years

Residence:

Applicants must be (i) a Persons of Indian Origin (PIO) and a citizen of a country listed in the Appendix-A, or (ii) an Indian National studying abroad. The Indian Nationals must have had at least 3 (three) years of education in foreign countries listed in Appendix-A during the last 6 (six) years and must have passed the qualifying examination inclusive of 11th and 12th standard or equivalent (not beyond), from countries listed in Appendix-A.

Academic Qualification:

Applicants must possess the following academic qualification: Qualifying Examination: The candidate must have passed the Senior Secondary (10+2) or equivalent examination from a system of education recognized by the Association of Indian Universities (AIU), with requisite subjects. Minimum Marks in qualifying Examination: The candidate must have secured a minimum of 60% aggregate marks or equivalent grades in aggregate of all the subjects in the qualifying examination.

MEANS CRITERIA

In case of only NRI candidates, the total monthly income of the family of the candidate should not exceed an amount equivalent to US Dollars two thousand two hundred fifty (US\$ 2250). The candidate would have to provide a certificate to this effect in the format given at Appendix 'D' which should be duly countersigned by the Parent/Guardian, as applicable. There is no income limit to the PIO candidates.

FURNISHING OF FALSE INFORMATION DECLARATION

In the event being any information, certificate or declaration, as furnished by an applicant being subsequently found to be false or furnished willfully to hide material fact(s), the grant of scholarship to him/her will be withdrawn forthwith and no further correspondence will be entertained on this matter. The amount of scholarship already paid to such candidate would be recoverable from the candidate/parents/guardian. The decision of EdCIL/MOIA would be final in this regard.

SHORTLISTING & SELECTION PROCESS

Selection process will be based exclusively on ‘MERIT’:

For more information please visit www.edcilco.in

Engineering branches

1 **Branch:** Agricultural Engineering

Description: Uses scientific principles and technology to solve problems relating to sustainable agricultural production. Agricultural Engineers may perform tasks such as planning, supervising and managing the building of dairy effluent schemes, irrigation, drainage, flood and water control systems, perform environmental impact assessments and interpret research results and implement relevant practices.

2 **Branch:** Aeronautical Engineering

Description: Aeronautical / Aerospace Engineering is one of the most challenging fields of engineering with a wide scope for growth. This field deals with the development of new technology in the field of aviation, space exploration and defence systems. It specialises in the designing, construction, development, testing, operation and maintenance of both commercial and military aircraft, spacecrafts and their components as well as satellites and missiles

3 **Branch:** B.Tech. Aerospace Engineering

Description: □ B.Tech. programme in Aerospace Engineering is aimed at imparting sound knowledge in the fundamental areas of the discipline and also expose students to advanced applications of this knowledge.

4 **Branch:**B.Tech. Avionics

Description: □ The B.Tech Avionics Programme is primarily aimed at training students in the area of Electrical, Electronics and Computer Systems. The word Avionics is derived from Aviation Electronics. The quality and reliability of electronics used in aerospace electronics i.e Avionics has to be very stringent.

5 **Branch:** B.Tech. Physical Sciences

Description:□ The B. Tech (Physical Science) program is primarily aimed at training students in fundamental areas of physical science for application in space sciences and technology. Space missions are often planned and driven by some definite science goals and scientific objectives. The B. Tech program in Physical Sciences has been designed keeping such science requirements of space research in mind.

6 **Branch:** Architecture

Description: □ Architecture, the science of building, is the visualisation of building blocks. It is the area of study which deals with the designing and planning of buildings and structures and the spaces between them. Architecture is a highly competitive and multi-disciplinary profession which involves a variety of tasks at work. This is a field which covers various fields including spatial design, aesthetics, safety management, material management etc

7 **Branch:** Automobile Engineering

Description: A degree in Automobile Engineering will help land the dream job of designing and making dream machines on wheels. While doing the course, the students get an understanding of the mechanics of vehicle chassis, the internal combustion engine, the electrical and electronic systems in automobiles, workshop technology, and the motor transport affairs. Their skill sets will include the design, development, and maintenance of automobiles and spare parts

- Automobile Engineers are mainly classified into three streams like
- Product or Design Engineers: Product Engineers or Design Engineers are those who deal with the designing and testing of the components and systems of automobiles.
- Development Engineers :Those who deal with connecting all systems in a completed automobile are called Development engineers. Manufacturing Engineers. Manufacturing Engineers deal with activities like how to create and assemble the whole parts of automobiles. They have to design and layout the equipments, machine rates and line rates, specification of automation equipment, and manufacturing safety procedures....

8 **Branch:** Biomedical Engineering

Description: □ study and application of engineering principles and techniques to the medical field. It is a combination of technical knowledge in biology and medicine to improve life quality.

□ BME is concerned with the development and manufacture of prostheses, medical devices, diagnostic devices, drugs and other therapies. This unique field encompasses bio-instrumentation, bio-materials, bio-mechanics, medical imaging, genetic engineering, orthopedic surgery, cellular and tissue engineering. the combination of Mechanical Engineering, Electronics Engineering, Sciences with Computers for communication and control led to the emergence of interdisciplinary courses such as Mechatronics, Computer Integrated Manufacturing (CIM), Geographical Information System (GIS), Bio Technology, Bio Mechanics, Bio Medical Instrumentation and Bio Medical Engineering.

9 **Branch:** Chemical Engineering

Description: □ Chemical Engineering involves the design and maintenance of chemical plants and the development of chemical processes for converting raw materials or chemicals into valuable forms including those to remove chemicals from waste materials, to enable large-scale manufacture.

10 **Branch:** CERAMICS ENGINEERING

Description: □ Ceramics is a cutting-edge, low-cost material; hence the use of this materialism on the rise. Ceramics engineering goes way beyond the manufacture of cereal bowls, plates, bathroom and kitchen tiles and so on. From the production of ceramic teeth, bones and joints to implementation of the same in fibre optic cables used by doctors to see inside the human body, ceramic engineering is very much needed. The branch deals with the creation of objects from inorganic and on-metallic materials by using heat, or lowering temperatures through precipitation reactions from high purity chemical solutions. Ceramic materials, being heat resistant finds usefulness in mining, aerospace, refinery, medicine and a wide range

11 **Branch:** Civil Engineering

Description: □ Considered as one of the oldest engineering disciplines, Civil Engineering involves planning, designing and executing structural works.

□ The profession deals with a wide variety of engineering tasks including designing, supervision and construction activities of public works like roads, bridges, tunnels, buildings, airports, dams, water works, sewage systems, ports etc. and offers a multitude of challenging career opportunities.

12 **Branch:** Computer engineering

Description: □ **Hardware engineer** Computer engineers are a part of a team who apply their knowledge of mathematics and science for the design and development of a computer

Software engineer: those who deal with the computer programs are called computer software engineers. Software engineers should have strong programming skills as they are concerned with the design and development of many types of software, including computer games, word processing and business applications, operating systems and network distribution and compilers, which convert programs to machine language for execution on a computer.

13 **Branch:** Dairy technology

Description: Dairy technology is a division of engineering that deals with the processing of milk and its products. Dairy technology study involves processing, storage, packaging, distribution and transportation of dairy products by implying the science of bacteriology, nutrition and biochemistry. Apart from that, some principles of physics, engineering, economics and chemistry are also incorporated in the field of dairy technology, in order to develop the appropriate utilization of milk and their products..

List of Courses: -

- Diploma in Dairy Technology
- Diploma in Food and Dairy Technology
- Advanced Diploma in Dairy Science and Technology
- Bachelor of Engineering in Dairy Technology
- Bachelor of Technology in Dairy Technology
- Master of Technology in Dairy Chemistry
- Master of Technology in Dairy Microbiology
- Master of Technology in Dairy Technology
- Doctor of Philosophy in Dairy Chemistry

14 Branch: Electrical Engineering

Description: □ Electrical engineering is a field of engineering that generally deals with the study and application of electricity, electronics and electromagnetism. Electrical engineering,

□ The field of Electrical engineering involves transmission and generation of electrical power, electrical circuit design, electronics, instrumentation, control system, understanding electrical and electronic networks etc. Electrical engineering is considered to deal with the problems associated with large-scale electrical systems such as power generation and transmission and motor control.

15 Branch: Electronics Engineering

Description: □ Electronics Engineering has evolved today as one of the fastest growing and most in-demand industries. It encompasses a wide array of applications we use daily. These applications are television, radio, computers, telecommunication, etc. that play a vital role in making our life more easier and enjoyable than before.

Branch: Electronics and Communication Engineering

Description: □ Electronics and Communication Engineering deals with electronic devices and software interfaces. It has a wide range of applications that helps to make our life comfortable and more convenient. It helps to increase productivity in various industries such as oil, energy, agriculture, telecommunication media including television, radio and computers. The course is also applied to many other important sectors such as steel, petroleum and chemical industries; healthcare industry; and transportation industry.

.EEE VS ECE □ Electrical Engineering is based on using electrical energy to produce mechanical energy whereas electronics engineering focuses on every energy form other than mechanical energy that can be generated using electrical energy so in the definition itself you can see that the electrical branch is a bit confined as compared to the electronics branch..

Moreover ECE has electronics + Communications.where communications is a very wide and ever growing field..which has a very high scope and a lot of job opportunity..

There is more of electronics in ECE than in EEE. In EEE, the stress is on power engineering.

16 Branch: Industrial Engineering

Description: Industrial engineering draws upon the principles and methods of engineering analysis and synthesis. It eliminates waste of time, money, materials, energy and other resources. Industrial Engineering is also known as Operations management, Production Engineering, Manufacturing Engineering or Manufacturing Systems Engineering depending on the viewpoint or motives of the user. In healthcare Industrial Engineers are more commonly known as Management Engineers or Health Systems Engineers.

17 Branch: Instrumentation engineering

Description: □ In scientific terms, instrumentation is defined as the art and science of measurement and control of process variables within a production, or manufacturing area. The science has further opened up the realm of instrumentation engineering.

□ instrumentation engineering is a specialised branch of electrical and electronic engineering and it deals with measurement, control and automation of processes.

18 **Branch:** Environmental Engineering

Description: □ Environmental Engineering related to Environmental science, is a broad field that apply the principles of science and engineering to protect and improve environmental conditions. The field focuses on design and technology for improving environmental quality.

The main areas of environmental engineering include air pollution control, industrial hygiene, radiation protection, hazardous waste management, toxic materials control, recycling, water supply, wastewater management, storm water management, solid waste disposal, public health and land management. Within each of these major categories, there are many sub categories

19 **Branch:** Interior Designing

Description: □ Designing is the blend of artistic talents and creativity. Design encompasses a number of different fields. It can be mainly divided into four ie, Fashion designing, Product designing, Graphic designing and Interior designing. Fashion designing deals with clothing and textiles, product designing with designing the products and graphic designing deals with designing for websites, movies, logos, signage, etc. Interior designing is the arrangement of living space i.e organizing, managing and planning of the interiors of rooms at homes, offices, retail shops, showrooms, hotels, airports, exhibition halls, conference centers, theatres, TV and film studios and commercial establishments etc. The objective of designing space is to achieve functionality and to create the right kind of atmosphere for the right budget. Interior designing as a specialisation became popular only in the last few years.

20 **Branch:** Genetic Engineering

Description: 'Genetic Engineering' means the deliberate modification of the characters of an organism by the manipulation of its genetic material. Genetic engineering comes under the broad heading of Biotechnology.

21 **Branch:** Food Technology

Description: □ Food technology is a branch of science in which food science is applied in the manufacturing and preservation of food products. It is the application of science and technology to the treatment, processing, preservation and distribution of food.

22 **Branch:** Leather Technology

Description: □ The Indian leather industry which is the fourth largest export industry in the world, is growing by leaps and bounds. India not only exports leather goods and footwear to western countries, but leather is also consumed in large quantities by the domestic market. It is one of the largest foreign exchange earners for the country. With more and more multinationals coming to India, this industry is poised to become a hi-tech one

23 **Branch:** Marine Engineering

Description: □ Marine Engineering courses deal with construction and maintenance of ships and other sailing vessels.

□ The three professions, i.e Naval Architecture, Marine Engineering and Ocean Engineering are interrelated and sometimes may be confusing. Naval Architects are those who are involved with basic ship design, starting with hull forms and overall arrangements, power requirements, structure and stability. Ocean Engineers study the ocean environment to determine its effects on ships and other marine vehicles and structures. They may design and operate stationary ocean platforms, or manned or remote-operated sub-surface vehicles used for deep sea exploration. Marine Engineers have the complete responsibility of the ship's technical management. They are responsible for selecting the ships' machinery, which may include diesel engines, steam turbines, gas turbines; and for the design of mechanical, electrical, fluid and control systems throughout the vesse

24 **Branch:**Mechanical Engineering

Description: Mechanical engineering, the broadest of all Engineering disciplines deals with design and production of tools, machines and all other mechanical equipment to be used in industries. The industry offers a wide choice of options extending across many interdisciplinary interdependent specialties. Mechanical engineering is concerned with all types of machinery in industries and all aspects of their mechanism and functioning; the design, development, construction, production, installation, operation and maintenance; such as large steam and gas turbines, components of thermal power stations, internal combustion engines, jet engines, machine tools, air conditioning and heating machines, refrigerators etc to name a few. They not only design and create new products, but also develop materials for them and ways of making them

25 **Branch:**Mechatronics Engineering

Description: □ Mechatronics engineering is an interdisciplinary engineering field which is the combination of computer, electrical, electronics and mechanical engineering that serves the purpose of controlling advanced hybrid systems. In other words, Mechatronics is a branch of engineering that incorporates the ideas of mechanical and electronic engineering into one entity, and in particular cover those areas of engineering concerned with the increasing integration of mechanical, electronic, and software engineering into a production process. It is also called Robotic Science. Mechatronics engineering is an integrated approach to the design of computer controlled electro-mechanical systems. The field of mechatronics integrates the operations, skills and tools of mechanical engineering with those of electrical and computer engineering. It unites the principles of mechanics, electronics and computing, and the end purpose is to design a simpler and more economical system.

26 **Branch:**Metallurgical Engineering

Description: Metallurgical Engineering is a branch of engineering which deals with the study of science and art of metals and their properties. It includes areas of processing the metals and converting them into useful products. In other words, it is the study of physical and chemical behavior of metallic elements, their inter-metallic compounds and their alloys. Metallurgical engineering comprises the application of technology to metals. Professionals in this field of engineering are known as Metallurgical Engineers or Metallurgist

27 **Branch:** Mining Engineering:

Description: Mining Engineering is a complex and interdisciplinary field that includes elements of geological, civil, mechanical, and materials engineering. Mining Engineers design, operate, manage, and reclaim mines and mining facilities for both open pit and underground deposits.

There is a severe shortage of mining engineers worldwide due to growing demand for minerals in developed and developing countries. Mining engineering students can look forward to a secure and well-paid career in a dynamic and challenging industry. The mining industry offers career paths that provide the flexibility to work in and move between a diverse range of jobs in mining regions and major cities around the world.

28 **Branch:**Nanotechnology

Description: Nanotechnology is a branch of science that deals with the purpose of science, technology and engineering to build up new materials and devices in different fields in nano-range. Nanoscale technology and Molecular manufacturing are two major fields in Nanotechnology. Nanoscale technology studies small structure which is used for making stronger materials, better medicines and faster computers. Molecular manufacturing is concerned with building mechanical and chemical manufacturing systems that join molecules together.

Nanotechnology is applied in various fields such as medicine, textile, education, electronic devices, auto-mobile gadgets, bio-technological applications, genetic engineering, sports and fitness equipments,

ophthalmology related instruments, quality control, forensics, defense, medical apparatus, space and robotics, polymer chemistry, aeronautics agriculture, environmental domains and business applications.

Nanotechnology is considered as a technology of future and may bring major technological advances in the 21st century. The technology has the potential to produce garments which can prevent chemical and biological weapons from touching human skin.

Few courses offered in this field are: -

- Bachelor of Science in Nano-Science
- Bachelor of Technology in Nanotechnology
- Master of Technology in Nanotechnology
- Master of Science in Nanotechnology

29 Branch: Production & Industrial engineering

Description: Production & Industrial engineering is a branch of engineering concerned with the development, improvement, implementation and evaluation of integrated systems of people, money, knowledge, information, equipment, energy, material and process. It also deals with designing new prototypes to help save money and make the prototype better. Industrial engineering draws upon the principles and methods of engineering analysis and synthesis, as well as mathematical, physical and social sciences together with the principles and methods of engineering analysis and design to specify, predict, and evaluate the results to be obtained from such systems. Production & Industrial Engineering is a course which equips a person with the vital technical, analytical and managerial skills required for production & management of time, labour, and resources in an industry for it to run successfully.

30 Branch: Petroleum Engineering

Description: □ petroleum Engineering is the discipline in which the principles of Geology, Physics and Engineering are applied for the recovery, development and processing of petroleum. It is basically mining Engineering, but deals only with oil and gas.

31 Branch: Robotics engineering

Description: Robotics engineering is the division of engineering science and technology of robots. It includes the manufacture, functions, design and structural disposition of robots. Robotics engineering is a sub-field of mechanical engineering. Robotics engineers usually design robots and develop new applications for them to make them functional in a broad range of industries. Robots are used in industries for speeding up the manufacturing process. Robots are also used in variety of fields such as sea-exploration, servicing of transmission electric signals, nuclear science and designing of bio-medical equipments.

A qualified robotics engineer can apply his mastery in varied fields such as nano-technology, surgery, modern warfare and space-exploration. In present world robots are replacing humans where conditions are hazardous, tedious and manipulative in industrial units, space ships, atomic plants, mines and deep-sea vessels. The computerization of work through robotics has greatly increased productivity.

32 Branch: Thermal Engineering

Description: Thermal engineering is a division of engineering that deals with heating or cooling of processes, equipment, or enclosed environments. A thermal engineer is a professional who specializes in a complex field of engineering that focuses on thermodynamics, heat transfer, mass transfer, and fluid mechanics

33 Branch: Textile Technology

Description: □ Textile industry is one of the oldest industries in India. The industry basically involves manufacturing of various types of fabrics both natural and synthetic, production of machinery, and planning and development of new technology. The industry has categorized three major areas of work namely research and development, manufacturing and merchandising. It provides direct employment to more than thirty million people.

P - Private, G - Government

1	Nirma Institute of Technology	Ahmedabad	p
2	Motilal Nehru National Inst. of Technology	Allahabad	G
3	IIT	Allahabad	G
4	JNTU	Anantpur	G
5	University Visvesvaraya College of Engg.	Bangalore	G
7	IIT	Bangalore	G
8	R.V. College of Engineering	Bangalore	p
9	P.E.S. Institute of Technology	Bangalore	p
10	B.M.S. College of Engineering	Bangalore	p
11	Bangalore Institute of Technology	Bangalore	P
12	M.S. Ramaiah Institute of Technology	Bangalore	P
13	The Technological Inst. of Textile & Sciences	Bhiwani	G
15	MANIT	Bhopal	G
16	Kalinga Institute of Industrial Technology	Bhubaneshwar	P
17	Jadavpur University, Faculty of Engg & Tech	Calcutta	G
18	SIT	Calcutta	G
19	Punjab Engineering College	Chandigarh	G
21	IIT Madras	Chennai	G
22	SSN College of Engineering	Chennai	P
23	SRM Institute of Science and Technology	Chennai	P
24	Sathyabama Engineering College	Chennai	P
25	Hindustan Inst of Engineering Technology	Chennai	P
26	PSG College of Technology	Coimbatore	G
27	Coimbatore Institute of Technology	Coimbatore	G
28	Amrita Institute of Technology & Science	Coimbatore	p
30	Karunya Institute of Technology	Coimbatore	P
31	IIT Delhi	Delhi	G
32	Indian School of Mines	Dhanbad	G
33	SDM College of Engineering	Dharwad	P
34	NIT Durgapur	Durgapur	G
35	Kongu Engineering College	Erode	P
36	Dhirubhai Ambani IICT	Gandhinagar	P
38	College of Engg, Anna University	Guindy	G
40	R.V.R. & J.C. College Of Engg	Guntur	P
41	IIT Guwahati	Guwahati	G
42	IIT	Gwalior	G
44	NIT	Hamirpur	G
46	Bengal Eng and Science University, Shibpur	Howrah	G

47	IIT	Hyderabad	G
48	Osmania Univ. College of Engineering	Hyderabad	G
49	JNTU	Hyderabad	G
50	Chaitanya Bharathi Inst. of Technology	Hyderabad	P
57	Vasavi College of Engineering	Hyderabad	P
59	The ICFAI Inst of Science and Technology	Hyderabad	P
61	Muffakham Jah Engineering College	Hyderabad	P
64	S.G.S. Institute of Technology & Science	Indore	G
68	Jabalpur Engineering College	Jabalpur	G
69	Malviya National Institute of Technology	Jaipur	G
70	NIT	Jalandhar	G
73	NIT	Jamshedpur	G
74	JNTU	Kakinada	G
75	IIT Kanpur	Kanpur	G
76	Harcourt Butler Technological Institute	Kanpur	G
79	IIT Kharagpur	Kharagpur	G
80	NIT	Kozhikode	G
89	NIT	Kurukshetra	G
93	Guru Nanak Dev Engineering College	Ludhiana	G
96	Manipal Institute of Technology	Manipal	p
97	IIT Bombay	Mumbai	G
99	VJTI	Mumbai	G
6	Mumbai University Inst of Chemical Tech	Mumbai	G
14	Sardar Patel College of Engineering	Mumbai	p
20	D.J. Sanghvi	Mumbai	P
29	National Institute of Engineering	Mysore	p
37	S.J. College of Engineering	Mysore	P
39	Dharmsinh Desai Institute of Technology	Nadiad	P
43	VNIT	Nagpur	G
45	Laxminarayan Institute Of Tech.	Nagpur	G
51	Shri Ramdeo Baba K.N. Engineering College	Nagpur	P
52	Delhi College of Engineering	New Delhi	G
53	Netaji Subhas Institute of Technology	New Delhi	G
54	Jamia Millia Islamia, New Delhi	New Delhi	G
55	Amity School of Engineering	Noida	p
56	Thapar Inst of Engineering & Technology	Patiala	p
58	NIT	Patna	G
60	BITS Pilani	Pilani	P
62	Govt. College of Engineering	Pune	G

63	IIT	Pune	G
65	Cummins College of Engg for Women	Pune	G
66	Maharashtra Institute of Technology	Pune	P
67	VIT	Pune	P
71	NIT	Raipur	G
72	BIT, Mesra	Ranchi	P
77	IIT Roorkee	Roorkee	G
78	NIT	Rourkela	G
81	Mepco Schlenk Engineering College	Sivakasi	P
82	SVNIT	Surat	G
83	NIT	Suratkal	G
84	SASTRA	Thanjavur	P
85	SV University Engineering College	Tirupati	G
86	NIT	Trichy	G
87	College of Engineering	Trivandrum	G
88	Sree Chitra Thirunal College of Engineering	Trivandrum	P
90	G.H. Patel College of Engg & Technology	Vallabh Vidyanagar	G
91	IT-BHU	Varanasi	G
92	K.L. College of Engineering	Veddeswaram	P
94	Vellore Institute of Technology	Vellore	P
95	College of Engineering, Andhra University	Vishakhapatnam	G
98	Gitam	Vishakhapatnam	P
100	NIT	Warangal	G

Best Commerce Courses after 12th, 10+2 std for Commerce Stream in India

What to do after 12th, 10+2 commerce? This is the biggest question in 12th class/ hsc students mind today. There are many graduation, professional diploma and degree courses and career options available to students after 12th std class in commerce stream like diplomas and bachelor degrees like B.Com, BBA, BMS, BBM, CFA, CA, ICWA, CFP, etc.

You have a host of career options after 12th commerce to choose from. Find the career options after 12th commerce mentioned below :

- **Banking** - Retail / personal banking, Corporate banking, Merchant banking, Treasury group, Rural banking, Product management, Loans executive
- **Accounts** - Chartered Accountant, Cost and work accountant, Certified financial analyst, Certified financial planner
- **Insurance** - Actuarial science, Insurance and Risk management, Insurance surveyor, Insurance agent
- **Investments** - Equity research analyst, Investment banker, Mutual fund executive, Stock broker, Capital market manager, Forex dealer, Venture capitalist, Real estate
- **Management** - Human resource Management, Brand management, Event management, International business

management, Market research management, Retail management, Marketing and Sales management, Technology management, Disaster management, Education management, NGO management, Rural management, Operation and Logistics management, Export management, Family business management, Material management, Financial management, Business development management

• **Finance** - Certified Financial Analyst - CFA , Certified Financial Planner - CFP

• **Company secretary**

• **Computers** - Software development, System architect, Web developers, Multimedia designer, System/IT manager, Database Administrator, Data processing assistant/ Data entry operator, Servicing and Maintenance technician, Technology management

ICAI Common Proficiency Test 2013

Posted on 10 January, 2013.

The Institute of Chartered Accountants of India

[Set up under an Act of Parliament]

Post Box No.7112, ICAI BHAWAN, Indraprastha Marg

New Delhi – 110002

TO BE PUBLISHED IN PART III SECTION 4 OF THE GAZETTE OF INDIA

Institute of Chartered Accountants of India is pleased to notify that the Common Proficiency Test (Paper- Pencil Mode) will be held on Sunday, 16th June, 2013 in two sessions.

First Session(i.e. Morning Session)

10.30 AM to 12.30 PM (IST)

Section – A Fundamentals of Accounting

Section – B Mercantile Laws

Second Session (i.e. Afternoon Session)

2.00 PM to 4.00 PM (IST)

Section – C General Economics

Section – D Quantitative Aptitude

Common Proficiency Test application forms duly filled in may be sent so as to reach the Additional Secretary (Examinations) at New Delhi not later than 24th April, 2013. Applications received after 24th April, 2013 shall not be entertained under any circumstances. Applications duly filled in will be received by hand delivery at the offices of Institute at New Delhi and at the Decentralised Offices of the Institute at Mumbai, Chennai, Kolkata, Kanpur, Ahmedabad, Bangalore, Hyderabad, Jaipur and Pune upto 24th April, 2013. Candidates residing in these cities are advised to take advantage of this facility. It may be noted that there is no provision for acceptance of application forms after 24th April, 2013 with late fee. The candidates who fill up the examination application form online at <http://icaiaexam.icaai.org> from 3rd April, 2013 (10.00 hrs) to 24th April, 2013 (17.30 hrs) and remit the fee online by using either VISA or MASTER Credit/ Debit Card shall not be charged Rs. 500/- (i.e. cost of application form fee) in order to popularize filling-in of application form online.

Common Proficiency Test (CPT) is open only to those students who are already registered with the Institute of Chartered Accountants of India for the said course on or before 2nd April, 2013 and fulfill the requisite eligibility conditions

For Further Information www.icaai.org

ICWAI after 12th

Institute of Cost and Works Accountants of India offers ICWA course which is carried out in 3 stages namely the foundation, intermediate and the finals. A plus two pass out has the option to do the foundation level of this program. Several plus two pass outs opt for this course which will provide a basic foundation to build up a career in the field of accountancy. Those students who clear the three levels of program can directly become Cost Accountants. The details of pursuing an ICWAI course after 12th are as follows.

Eligibility for ICWAI foundation course

The plus two pass outs can apply for the foundation course if they have obtained the qualification from any recognized board. 17 years is the minimum age requirement to apply for this program. The students who are waiting for the results can also apply for this program.

Application procedure for the ICWAI course after 12th

The exams will be conducted twice in a year usually in the months of June and December. The students can submit their applications offline. They need to attach relevant documents and certificates as specified in the brochure along with the application. The fees details will be mentioned in the brochure which is available in the official website. Three recent photographs have to be pasted on the form. The students should make sure that the completed form reaches the specified address before the last date mentioned.

Preparing for the ICWAI foundation course

The students should start preparing for the course after completing their plus two exams. They should get an idea about the portions to be covered in the preparation before making up a study plan. They should carefully choose the right reference books for the preparation. They have the option to seek the help of good coaching centers for the preparation as well.

Reference books for 12th students for ICWAI foundation course

- Financial accounting: an international introduction by David Alexander, Christopher Nobes
- Schaum's outline of theory and problems of financial accounting by Jae K. Shim, Joel G. Siegel
- Advanced accountancy by Hrishikesh Chakraborty
- Guide to Accounting Standard by Sanjiv Agarwal
- Accounting Theory by K.S. Most
- Financial Accounting Theory-Issues and Controversies by Bernstei & Wild
- Analysis and Use of Financial Statements by Sondhi & Fried
- Accounting Standards and Corporate Accounting Practices by T.P. Ghosh

Coaching centers for the ICWAI course

There are various coaching centers available for ICWAI course preparation. Out of them the most popular ones include Excel Academy, Accounts and Taxation Coaching centre, Prabhat Classes etc. The students should carefully select the right coaching centre by looking into the past track record and the perception of students studying presently in these institutes.

Read more here: <http://entrance-exam.net/icwai-after-12th/#ixzz2HgmLfgzy>

[Here you can explore list of top and best careers & courses after 12th std commerce and courses after 10+2 for commerce students, graduation courses, diploma and degree commerce courses in Mumbai, Delhi, Bangalore, Chennai, Chandigarh, Kolkata, Hyderabad, Ahmedabad, Jaipur, Pune, India.](#)

☞ <u>(Graduate Diploma in Print, Broadcast or Online/Multimedia Journalism)</u>	<u>Indian Institute of Journalism & New Media (IINM), Bangalore, India</u>
☞ <u>B Com (Honours in Accounting and Finance)</u>	<u>St. Xaviers College- Kolkata, Kolkata, India</u>
☞ <u>B. Com (Accounting & Finance)- BAF</u>	<u>H.R College of Commerce & Economics, Mumbai, India</u>
☞ <u>B. Com (Banking & Insurance)- BBI</u>	<u>H.R College of Commerce & Economics, Mumbai, India</u>
☞ <u>B. Com (Banking and Insurance)</u>	<u>Hindi Vidya Prachar Samiti's, Ramniranjan Jhunjhunwala College, Mumbai, India</u>
☞ <u>B.A. (Fashion Communication)</u>	<u>Institute of Apparel Management (IAM), Gurgaon - Delhi/NCR, India</u>
☞ <u>B.B.A (Honours)</u>	<u>Shri Shikshayatan College, Kolkata, India</u>
☞ <u>B.B.A.</u>	<u>Vels University, Chennai, India</u>
☞ <u>B.B.A. - Bachelor of Business Administration</u>	<u>Alpha Arts and Science College, Chennai, India</u>
☞ <u>B.B.M (Bachelor of Business Management)</u>	<u>T. John Group of Institutions, Bangalore, India</u>
☞ <u>B.B.M. (Bachelor of Business</u>	<u>Kristu Jayanti College of Management & Technology,</u>

- ※ Animation Film Making Picasso Animation College, Lucknow, India
- ※ Animation Master Animation & Digital Media Education Center (ADMEC), Delhi/NCR, India
- ※ Animation Standard Animation & Digital Media Education Center (ADMEC), Delhi/NCR, India
- ※ Artistic-Basic Jewellery Design Program Indian Institute of Jewellery(IIJ), Mumbai, India
- ※ B. A. Programme with Functional Hindi Miranda House, Delhi/NCR, India
- ※ B. Sc Degree in Fashion, Interior and Textile Design International Institute of Fashion Design (INIFD), Chandigarh, India
- ※ B.A (Honours in Sociology) St. Xaviers College- Kolkata, Kolkata, India
- ※ B.A (Honours) Economics Delhi College of Arts & Commerce, Delhi/NCR, India
- ※ B.A (Honours) Economics Sri Guru Gobind Singh College of Commerce, Delhi/NCR, India
- ※ B.A (Honours) History Delhi College of Arts & Commerce, Delhi/NCR, India
- ※ B.A (Hons) English Ramjas College, Delhi/NCR, India
- ※ B.A (Journalism) T. John Group of Institutions, Bangalore, India
- ※ B.A (Journalism) Bangalore City College, Bangalore, India
- ※ B.A (Media & Communication) MASSCOMEDIA, Delhi/NCR, India
- ※ B.A (Psychology) Lady Shri Ram College for Women (LSRC), Delhi/NCR, India
- ※ B.A - Tourism, History & Journalism Garden City College, Bangalore, India
- ※ B.A Economic (Hons) GD Goenka World Institute, Gurgaon - Delhi/NCR, India
- ※ B.A Hons in English Economics and Hindi Goswami Ganesh Dutta Sanatan Dharma College, Chandigarh, India
- ※ B.A LLB Garden City College, Bangalore, India
- ※ B.A-English SNDT Womens University, Mumbai, India
- ※ B.A. (Apparel Design & Merchandising) Institute of Apparel Management (IAM), Gurgaon - Delhi/NCR, India
- ※ B.A. (Economics) Loyola College, Chennai, India
- ※ B.A. (Economics, English, Politics) Fergusson College, Pune, India
- ※ B.A. (English) Womens Christian College, Chennai, India
- ※ B.A. (Fine Arts) Lovely Professional University, Jalandhar, India
- ※ B.A. (H) English with Journalism Amity Institute of English and Business Communication, Noida - Delhi/NCR, India

- ※ B.A. (History) Lady Shri Ram College for Women (LSRC), Delhi/NCR, India
- ※ B.A. (History) Ethiraj College, Chennai, India
- ※ B.A. (Honours in Political Science) St. Xaviers College- Kolkata, Kolkata, India
- ※ B.A. (Hons.) Economics Hans Raj College, Delhi/NCR, India
- ※ B.A. (Hons.) Humanities and Social Sciences Hindu College, Delhi/NCR, India
- ※ B.A. (Hons.) in Social Work Tata Institute of Social Sciences (TISS), Mumbai, India
- ※ B.A. (Journalism) M.O.P. Vaishnav College for Women, Chennai, India
- ※ B.A. (Mass Communication) Sadhna Academy For Media Studies, Noida - Delhi/NCR, India
- ※ B.A. (Sociology) Sacred Heart College, Kochi, India
- ※ B.A. (Sociology) St.Terasas College, Ernakulam, India
- ※ B.A. (Sociology) Loyola College, Chennai, India
- ※ B.A. Economics Guru Nanak College, Chennai, India
- ※ B.A. English Hons St. Stephens College, Delhi/NCR, India
- ※ B.A. Hons Kamala Nehru College, Delhi/NCR, India
- ※ B.A. in Mass Communication (BMC) International Media Institute (IMI), Delhi/NCR, India
- ※ B.A. LL.B. Manav Bharti University, Solan, India
- ※ B.A. LL.B. (Hons.) National University of Advanced Legal Studies (NUALS), Kochi, India
- ※ B.A. Philosophy Hons. St. Stephens College, Delhi/NCR, India
- ※ B.A. Sociology M.O.P. Vaishnav College for Women, Chennai, India
- ※ B.A., LL.B. (Hons.) National Law School of India University, Bangalore, India
- ※ B.A., LL.B. (Hons.) Jamia Millia Islamia University, Delhi/NCR, India
- ※ B.A., LL.B.(Hons.) Jindal Global Law School (JGLS), Delhi/NCR, India
- ※ B.A.LL.B Bhai Gurdas College of Law, Sangrur, India
- ※ B.A.LL.B (Hons.) National Law Institute University (NLIU), Bhopal, India
- ※ B.A.LL.B. The Army Institute of Law (AIL), Mohali, India
- ※ B.Arch School of Planning and Architecture, Delhi/NCR, India
- ※ B.Des. (Accessory Design) National Institute of Fashion Technology (NIFT), Delhi/NCR, India
- ※ B.Des. (Fashion Design) National Institute of Fashion Technology (NIFT), Delhi/NCR, India
- ※ B.Des. (Textile Design) National Institute of Fashion Technology (NIFT), Delhi/NCR, India

✧	<u>B.A. English Hons</u>	<u>St. Stephens College, Delhi/NCR, India</u>
✧	<u>B.A. Hons</u>	<u>Kamala Nehru College, Delhi/NCR, India</u>
✧	<u>B.A. in Mass Communication (BMC)</u>	<u>International Media Institute (IMI), Delhi/NCR, India</u>
✧	<u>B.A. LL.B.</u>	<u>Manav Bharti University, Solan, India</u>
✧	<u>B.A. LL.B. (Hons.)</u>	<u>National University of Advanced Legal Studies (NUALS), Kochi, India</u>
✧	<u>B.A. Philosophy Hons.</u>	<u>St. Stephens College, Delhi/NCR, India</u>
✧	<u>B.A. Sociology</u>	<u>M.O.P. Vaishnav College for Women, Chennai, India</u>
✧	<u>B.A., LL.B. (Hons.)</u>	<u>National Law School of India University, Bangalore, India</u>
✧	<u>B.A., LL.B. (Hons.)</u>	<u>Jamia Millia Islamia University, Delhi/NCR, India</u>
✧	<u>B.A., LL.B.(Hons.)</u>	<u>Jindal Global Law School (JGLS), Delhi/NCR, India</u>
✧	<u>B.A.LL.B</u>	<u>Bhai Gurdas College of Law, Sangrur, India</u>
✧	<u>B.A.LL.B (Hons.)</u>	<u>National Law Institute University (NLIU), Bhopal, India</u>
✧	<u>B.A.LL.B.</u>	<u>The Army Institute of Law (AIL), Mohali, India</u>
✧	<u>B.Arch</u>	<u>School of Planning and Architecture, Delhi/NCR, India</u>
✧	<u>B.Des. (Accessory Design)</u>	<u>National Institute of Fashion Technology (NIFT), Delhi/NCR, India</u>
✧	<u>B.Des. (Fashion Design)</u>	<u>National Institute of Fashion Technology (NIFT), Delhi/NCR, India</u>
✧	<u>B.Des. (Textile Design)</u>	<u>National Institute of Fashion Technology (NIFT), Delhi/NCR, India</u>
✧	<u>B.Law</u>	<u>New law Academy, Pune, India</u>
✧	<u>B.M.S</u>	<u>K.J.Somaiya College of Arts & Commerce, Mumbai, India</u>
✧	<u>B.Sc (Electronics Media)</u>	<u>Editworks School Of Mass Communication, Delhi/NCR, India</u>
✧	<u>B.Sc (Hons) Digital Art & Technology</u>	<u>IMC-COAC Animation & Multimedia, Delhi/NCR, India</u>
✧	<u>B.Sc (Hospitality Studies)</u>	<u>Rizvi College of Arts, Science and Commerce, Mumbai, India</u>
✧	<u>B.Sc (Mass Communication Journalism & Advertising)</u>	<u>College of Media & Communication (CMAC), Delhi/NCR, India</u>
✧	<u>B.Sc - Animation (Distance Education)</u>	<u>Vogue Institute of Fashion Technology, Bangalore, India</u>
✧	<u>B.Sc - Fashion Designing & Apparel Designing</u>	<u>Vogue Institute of Fashion Technology, Bangalore, India</u>
✧	<u>B.Sc - Interior Designing (ID)</u>	<u>Vogue Institute of Fashion Technology, Bangalore, India</u>
✧	<u>B.Sc - Jewellery Designing & Management (B.SC. JD&M)</u>	<u>Vogue Institute of Fashion Technology, Bangalore, India</u>

- ✧ B.Sc Fashion Technology Amity School of Fashion Technology, Noida - Delhi/NCR, India
- ✧ B.Sc Games & Interactive Media from Sheffield Hallam University. IMC-COAC Animation & Multimedia, Delhi/NCR, India
- ✧ B.Sc in Fashion Technology IMS-Design and Innovation Academy, Delhi/NCR, India
- ✧ B.Sc in Jewellery Design IMS-Design and Innovation Academy, Delhi/NCR, India
- ✧ B.Sc in Texttile Design IMS-Design and Innovation Academy, Delhi/NCR, India
- ✧ B.Sc Mass Communication, Journalism & Advertising Rai Foundation, Delhi/NCR, India
- ✧ B.Sc Multimedia Rai Foundation, Delhi/NCR, India
- ✧ B.Sc Multimedia & Animation TGC Animation and Multimedia, Delhi/NCR, India
- ✧ B.Sc. (Fashion & Apparel Design)- FAD Ganga Kaveri Group Of Institutions, Bangalore, India
- ✧ B.Sc. (Fashion Communication) Satyam Fashion Institute, Noida - Delhi/NCR, India
- ✧ B.Sc. (Fashion Design) Satyam Fashion Institute, Noida - Delhi/NCR, India
- ✧ B.Sc. (Mass Communication, Advertisement & Journalism) NRAI School of Mass Communication, Management & Technology, Delhi/NCR, India
- ✧ B.Sc. (Mass Communication, Advertising & Journalism) MASSCOMEDIA, Delhi/NCR, India
- ✧ B.Sc. in Fashion Technology Vishwakarma Creative-i College, Pune, India
- ✧ B.Sc. in Interior Design Vishwakarma Creative-i College, Pune, India
- ✧ B.Sc. Mass Communication, Advertisement & Journalism Delhi Film Institute, Delhi/NCR, India
- ✧ BA (Economics, English, Phylosophy) St Xaviers College - Ahmedabad, Ahmedabad, India
- ✧ BA (Hons) Marketing Leeds Met India, Bhopal, India
- ✧ BA (Hons.) in Marketing Management Bangalore Management Academy (BMA), Bangalore, India
- ✧ BA (Journalism & Mass Communication) Skyline Business School, New Delhi, India
- ✧ BA in Digital Film Making & Animation SAE Technology College, Chennai, India
- ✧ Bachelor in Design Apeejay Institute of Design, Delhi/NCR, India
- ✧ Bachelor in Fine Arts Apeejay Institute of Design, Delhi/NCR, India
- ✧ Bachelor in Journalism & Mass Communication R. K. College of Systems & Management (RKCSM), Delhi/NCR, India
- ✧ Bachelor in Mass Comm & Journalism & Advertising Sharda Group of Institutions, Noida - Delhi/NCR, India

BEST SCIENCE COURSES AFTER 12TH, 10+2 STD FOR SCIENCE STREAM IN INDIA

There are many graduation, professional diploma and degree courses and career options available to students after 12th std class for science, biology, non medical and computer science stream like diplomas and bachelor degrees like B.Sc, B.E, B.Tech, MBBS, BHM, BCA, hotel management, engineering, medical, computers, etc.

If you are interested in objective thoughts and innovative ideas or if you are able to spare long hours for your studies, then you can opt for various career options after 12th science.

Find below mentioned career options after 12th science with PCM and PCB

Science - PCM

- **Engineering-Aerospace**, Agricultural, Automobile, **Biochemical**, **Bio medical**, **Biotechnology**, **Bio instrumentation**, **Bio informatics**, Broad cast technician, **Ceramic**, Chemical, **Civil**, Computer, Construction, Electrical, **Electronic**, Engineer Manager, **Environmental**, Food, **Fire**, Industrial, **Instrumentation**, Leather, **Marine**, **Mechanical**, **Mining & metallurgical**, Nano technology, Printing, **Production**, Plastic & polymer, Highway, Rubber, Genetic, Telecommunication, Textile
- **Architecture-Naval Architecture**
- **Actuarial Science**
- **Commercial Pilot**
- **Merchant Navy**
- **Computers**
- **Information Technology/Software/Systems**-Application Programmer, Database Administrator, Information Technologist, Medical Transcriptionist, Network Administrator, Software Engineer, System Architect, Technology Manager, Web Developer, Multimedia Designer
- **Hardware**-Hardware Design And Development Engineer, Design and Development of Computer Hardware, Design And Development of Customized Microprocessor, Design and development of networking hardware, Service Maintenance Engineers/technician
- **Defense Services-Indian Navy officer**, **Indian Air force officer**
- **Physical Science**-**Chemist**, **Mathematician**, **Astronomy**, **Forensic Science**, **Geographer**, **Geologist**, **Nuclear physicist**, **Oceanography**, **Operation Research**, Astrophysicist, **Physicist**, **Statistician**
- **Pharmacy**-Clinical Research

Science - PCB

- **Medicine -**
General Physician/Doctor - Ophthalmic, Ophthalmic, Gynecology, Dermatology, Orthopedics, Orthopedics, Radiology, Electro logy, **Endocrinology**, Cardiology, **Plastic Surgeon**, General Surgeons, Neuron Surgeons, Pediatrician, Thoracic Surgeons, Trauma Surgeons, Urologist, Sexologist, Gastroenterology, Oncology, Anesthesiology, Psychiatry, ENT/Ear nose Throat Specialist, Pathologist
Homeopathy
Ayurvedic

Dentist - Orthodontist

Unani

Sidha

- **Para medicine**-Physiotherapy, Speech therapy, Audiology, Nursing, Occupational Therapy, Prosthetics and Orthotics, Medical lab Technology, Optometry and Ophthalmic technology, Nutrition and Dietetics
- **Allied Fields**-EEG technician, Hospital manager/Administrator, Medical lab technologist
- Nuclear medicine technologist, Radiation technology, Pathology technology, Respiratory therapist
- Sonographer technician, Operation theatre assistant, Naturopathy, Yoga therapy, Massage therapy
- Acupressure, Acupuncture,
- **Vetinary Science**
- **Biotechnology**
- **Biosciences**-agriculturist, Botanist, Zoologist, Microbiologist, Biologist, Horticulturist, Floriculturist, Environmental Science,
- **Pharmacy**- Clinical Research
- **Home science**
- **Bio Medical**
- **Bio Chemist**
- **Fishery Science**
- **Forestry and wildlife**
- **Marine Biology**
- **Food technologist**

National Entrance Screening Test (NEST)

2013

Posted on 10 January, 2013

NEST is a compulsory test for students seeking admission to National Institute of Science Education and Research (NISER), Bhubaneswar and University of Mumbai – Department of Atomic Energy Centre for Excellence in Basic Sciences (UM-DAE CBS), Mumbai. Both NISER and UM-DAE CBS have been started by Department of Atomic Energy, Government of India in 2007. Their mandate is to train scientific manpower for carrying out cutting edge scientific research and for providing input to scientific programmes of Department of Atomic Energy and other applied science institutions in the country. Students seeking admission to NISER will have to appear for National Entrance Screening Test (NEST) to be conducted jointly by NISER & UM-DAE-CBS on May 25, 2013 (Saturday) at 37 centres in India.

Eligibility

1. **Qualification** : 60% marks for general category and 55% for SC/ST/PD category in aggregate (or equivalent grade) in Class XII (or equivalent) examination, from any recognized Board in India. Students who have passed the Class XII qualifying

examination in 2011 or 2012 or are appearing in 2013 are eligible to [apply](#). Where only Letter grade is available, a certificate from the Board specifying equivalent percentage marks will be required. In the absence of such a certificate the decision of the NISER Admission Committee will be final.

Age Limit : Candidates born on or after 01 Oct. 1988 are eligible to apply; this limit is relaxable by 5 years for SC/ST/PD candidates.

1. To apply for NEST-2013, candidates can fill-up application form either online (preferably) or offline.
2. **Online application** — Candidates may go to the NEST-2013 website www.nestexam.in
3. application opens on **January 07, 2013** and last date of application is **March 08, 2013**.
4. **Offline application** — Candidates may send request letter to the Chief Coordinator
NEST-2013
5. The last date for requesting paper application form is **February 20, 2013** and
6. **The last date for receiving application is March 08, 2013.**

NIFT

NIFT was set up at New Delhi in 1986 under the aegis of Ministry of Textiles, Government of India. It has emerged as the premier Institute of Design, Management and Technology, developing professionals for taking up leadership positions in fashion business in the emerging global scenario.

Bachelor Programmes

FD	B.Des (Fashion Design)
LD	B.Des (Leather Design)
AD	B.Des. (Accessory Design)
TD	B.Des. (Textile Design)
KD	B.Des. (Knitwear Design)
FC	B. Des. (Fashion Communication)
AP	B.FTech (Apparel Production)

ACADEMIC FEE SEMESTER WISE (IN RUPEES)	
TUITION FEE (NON-REFUNDABLE)	55000
LIBRARY FEE (PER YEAR) (NON-REFUNDABLE)	4000
MEDICLAIM & STUDENT DEVELOPMENT FEE (PER YEAR) (NON-REFUNDABLE)	2000
EXAM FEE (PER YEAR)	2000
TOTAL	63000
ONE TIME PAYMENTS	
SECURITY DEPOSIT (ONE TIME) (REFUNDABLE)	5000
ALUMNI ASSOCIATION MEMBERSHIP FEE (ONE TIME) (NON-REFUNDABLE)	2500
REGISTRATION FEE (ONE TIME)	5000
TOTAL	12500
TOTAL AT ADMISSION TIME	75500

For NRI Students

ACADEMIC FEE FOR NRI (PER YEAR - CONSISTING OF TWO SEMESTERS) (IN RUPEES)	
TUITION FEE (NON-REFUNDABLE)	418000
LIBRARY FEE (PER YEAR) (NON-REFUNDABLE)	26500
MEDICLAIM & STUDENT DEVELOPMENT FEE (PER YEAR) (NON-REFUNDABLE)	17000
EXAM FEE (PER YEAR)	2000
TOTAL	463500
ONE TIME PAYMENTS	
SECURITY DEPOSIT (ONE TIME) (REFUNDABLE)	5000
ALUMNI ASSOCIATION MEMBERSHIP FEE (ONE TIME) (NON-REFUNDABLE)	2500
REGISTRATION FEE (ONE TIME)	5000
TOTAL	12500
TOTAL AT ADMISSION TIME	476000

For Bachelor Programmes :

Maximum age: 23 years as on 1st October, 2012 i.e. born on or after 1st October, 1989 subject to following qualifications:

Eligibility for Bachelor Programmes – Design – B.Des. (Fashion Design /

Leather Design / Accessory Design / Textile Design / Knitwear Design / Fashion Communication)

- The +2 level examination in the 10+2 pattern of examination of any recognised Central/State Board of Secondary Examination, such as Central Board of Secondary Education, New Delhi, and Council for Indian School Certificate Examination, New Delhi.

or

- General Certificate Education (GCE) Examination (London/Cambridge/Sri-Lanka) at the Advanced (A) level.

or

- Any Public School/Board/University Examination in India or in Foreign countries recognised by the Association of Indian Universities as equivalent to 10+2 system.

or

- A pass grade in the Senior Secondary School Examination conducted by the National Open School with a minimum of five subjects.

or

- 3 or 4-years diploma recognised by AICTE or a State Board of Technical Education.

Eligibility for Bachelor Programme - Technology Bachelor of Fashion Technology (Apparel Production) (B.FTech.)

- The +2 level examination in the 10+2 pattern of examination of any recognised Central/State Board of Secondary Examination, such as Central Board of Secondary Education, New Delhi, and Council for Indian School Certificate Examination, New Delhi with Physics, Chemistry and Maths.

or

- A pass grade in the Senior Secondary School Examination conducted by the National Open School with a minimum of five subjects with Physics, Chemistry and Maths. or

- 3 or 4-years diploma recognised by AICTE or a State Board of Technical Education (Engineering background). For Master Programmes : Age - No age limit

National Institute of Design

National Institute of Design (NID) is a design school in [India](#). The institute functions as an autonomous body under the Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, [Government of India](#). NID is recognised by the [Department of Scientific and Industrial Research](#) (DSIR) under [Ministry of Science and Technology](#), Government of India, as a scientific and industrial design research organisation. [Business Week](#) has ranked NID (32 alphabetically) in its list of top [design schools](#) in the world. It has been ranked as the top design institute in India. It is located at Ahmedabad.

Courses offered

- Graduate Diploma Programme in Design (GDPD)

Industrial Design

- **Product Design:** B.Tech, BE (Mech./Mechatronics) B.Arch.
- **Transportation and Automobile Design:** B.Tech, BE (Mech./Mechatronics) B.Arch.
- **Furniture and Interior Design:** B.Tech, BE, B.Arch., Interior Design
- **Game Design:** B.Tech, B.F.A., Applied Arts, B.Tech, BIT, B.Arch, Visual Communication, Mass Media, BSc. Computer Science, Child Development, Therapy, Graduates in any other area with aptitude and proven talent for Toy/Game Design and Digital Media.
- **Ceramic and Glass Design:** Ceramic and Glass Design/Technology, BFA, Graduates in other disciplines with experience in Ceramic and Glass fields.

Textile and Apparel Design

- **Textile Design:** B.F.A, Applied Arts, Textile/Handloom Technology, Textile/Knitwear/Fashion Design, Home Science (with Textile and Clothing)
- **Apparel Design and Merchandising:** B.F.A., Applied Arts, Textile/Knitwear/Fashion Design or graduates in merchandising or any other disciplines with proven proficiency in drawing and garment construction and presentation
- **Lifestyle Accessory Design:** B.F.A, B.Arch., Applied Arts, Design, Interior Design, Accessory Design and relevant disciplines in technology and engineering.

Communication Design

- **Graphic Design:** B.F.A, Applied Arts, B.Arch. Interior Design, graduates with experience in Graphic Design.
- **Animation Film Design:** B.F.A, Applied Arts, Design, B.Arch, Communication Media, Film & TV, Mass Media, Graduates with experience in Animation Industry
- **Film and Video Communication:** Humanities, Arts, Visual Communication, Mass Media or graduates in any other discipline with relevant work experience

IT Integrated Design

- **New Media Design:** B.F.A., Applied Arts, B.Tech, BIT, B.Arch, Visual Communication, Mass Media, BSc. Computer Science, BCA, (Knowledge of Scripting, Authoring and Graphic tools essential)
- **Software and User Interface Design:** BS (computer Science), B.Arch., BFA, B. Tech (Electronics), B.I.T., Applied Psychology, Accessory Design with relevant work experience

- **Information and Digital Design:** B.Arch., BFA, Applied Arts, BIT, BCA, BSc (Computer Science), Mass Media, Cognitive Psychology with relevant work experience
- **Information and Interface Design:** B.Arch., BFA, Applied Arts, BIT, BCA, BSc (Computer Science), Mass Media, Cognitive Psychology with relevant work experience
- **Design for Digital Experience:** B.Arch., BFA, Applied Arts, BIT, BCA, BSc (Computer Science), Mass Media, Cognitive Psychology with relevant work experience

Interdisciplinary Design Studies

- **Strategic Design Management:** Any recognised 3-year Bachelors Degree in Fine Arts, Humanities, Science or a 4-year degree in Engineering, Technology, etc. with work experience of minimum 2 years in a design or design-related organisation

Design for Retail Experience: Any recognised 3-year Bachelors Degree in Fine Arts, Humanities, Science or a 4-year degree in Engineering, Technology, etc. with work experience of minimum 2 years in a design or design-related organisation

List of top and best careers & courses after 12th science, non medical, biology and courses after 10+2 for science students, graduation courses, diploma and degree science courses in Mumbai, Delhi, Bangalore, Chennai, Chandigarh, Kolkata, Hyderabad, Ahmedabad, Jaipur, Pune are available in school web site

Career in Defense

National Defence Academy (NDA)

Vacancies Per Course	300 (Twice a year) Army - 195 Air Force - 66 Navy - 39
Notify in Employment News and leading Daily news Paper	Mar and Oct Notified by UPSC

Eligibility Criteria

Age	16 ½ to 19 yrs
Born Between	2 nd Jan to 1 st Jul for Dec Course and 2 nd Jul to 1 st Jan for Jul Course
Qualification	12 th Class of 10+2 System of Edn of Equivalent for Army and with Physics and Maths for AF/Navy
Marital Status	Un Married
Application to be Received by	10-15 Nov for Jan Course and 10-15 Apr for Jul Course
Likely SSB Date	Sep to Oct and Jan to Apr
Date Commencement of Trg	Jan and Jul
Training Academy	NDA , Khadakwasla, Pune
Duration of Trg	3 Yrs at NDA and 1 Yrs at IMA

0+2 Technical Entry Scheme

Vacancies Per Course	85 (Twice a year)
Notify in Employment News and leading Daily news Paper	Apr and Sep Notified by Additional Directorate General of Recruiting

Eligibility Criteria

Age	16 ½ to 19 yrs
Born Between	1 st Jul to 1 st Jul for Jan Course and 1 st Jan to 1 Jan for Jul Course
Qualification	10+2 Physics, Chemistry & Maths (aggregate 70% and above to apply)
Marital Status	Un Married
Application to be Received by	30 Jun and 31 Oct
Likely SSB Date	Aug to Oct and Feb to Apr
Date Commencement of Trg	Jan and Jul
Training Academy	IMA Dehradun
Duration of Trg	5 Yrs (1 Yrs IMA & 4 Yrs CTWS) Permanent Commission after 4 Yrs

Indian Military Academy (IMA)

Vacancies Per Course	250 (Twice a year)
Notify in Employment News and leading Daily news Paper	Notified by UPSC under the aegis of CDSE in Mar/Apr and Sep/Oct
Eligibility Criteria	
Age	19 to 24 yrs
Born Between	2 nd Jan to 1 st Jan for Jan Course. 2 nd Jul to 1 st Jul for Jul Course.
Qualification	Graduation from Recognised University.
Marital Status	Un Married
Application to be Received by	May and Oct
Likely SSB Date	Sep / Oct and Mar / Apr
Date Commencement of Trg	Jan and Jul
Training Academy	IMA Dehradun
Duration of Trg	1 ½ Yrs

Short Service Commission Non Technical Men

Vacancies Per Course	175 (Twice a year)
Notify in Employment News and leading Daily news Paper	Notified by UPSC under the aegis of CDSE in Mar/Apr and Sep/Oct
Qualification	Graduate with LLB / LLM with 55% marks. Registered with Bar Council of India / State
Marital Status	Un Married / Married
Application to be Received by	Oct / Nov and Apr / May
Likely SSB Date	Jan and Aug
Date Commencement of Trg	Apr and Oct
Training Academy	OTA
Duration of Trg	49 Weeks

NCC (SPL) Entry Men

Vacancies Per Course	50 (Twice a Year)
Notify in Employment News and leading Daily news Paper	Notified by Additional Directorate General Recruiting / AG Branch in Apr / Oct

Eligibility Criteria	
Age	19 to 25 yrs
Born Between	2 nd Jan to 1 st Jan for Apr Course. 2 nd Jul to 1 st Jul for Oct Course.
Qualification	Graduate with LLB / LLM with 50% Aggregate marks, 2 Yrs service in NCC Senior Div Army with minimum 'B' Grade in 'C' Certificate Exam.
Marital Status	Un Married
Application to be Received by	Oct / Nov and Apr / May through NCC Dte
Likely SSB Date	Jan and Aug
Date Commencement of Trg	Apr and Oct
Training Academy	OTA, Chennai
Duration of Trg	49 Weeks

Short Service Commission Tech Women

Short Service Commission Tech Women	
Vacancies Per Course	As Notified (Twice a year)
Notify in Employment News and leading Daily news Paper	Notified by Additional Directorate General Recruiting / AG Branch in Dec/Jan and Jun / Jul
Eligibility Criteria	
Age	19 to 25 yrs
Born Between	2 nd Apr to 1 st Apr for Apr Course. 2 nd Oct to 1 st Oct for Oct Course.
Qualification	Engineering Degree in notified discipline
Marital Status	Un Married
Application to be Received by	Feb / Mar and Jul / Aug
Likely SSB Date	Nov to Jan for Apr Course and May to July for Oct Course
Date Commencement of Trg	Oct and Apr

Training Academy	OTA Chennai
Duration of Trg	49 Weeks

NCC (SPL) Entry Women

Vacancies Per Course	As notified
Notify in Employment News and leading Daily news Paper	Notified by Additional Directorate General Recruiting / AG Branch in Apr / Oct
Eligibility Criteria	
Age	19 to 25 yrs
Born Between	2 nd Jan to 1 st Jan for Apr Course. 2 nd Jul to 1 st Jul for Oct Course.
Qualification	Graduate with LLB / LLM with 50% Aggregate marks, 2 Yrs service in NCC Senior Div Army with minimum 'B' Grade in 'C' Certificate Exam.

Marital Status	Unmarried
Application to be Received by	Oct / Nov and Apr / May through NCC Dte
Likely SSB Date	Nov to Jan for Apr Course and May to July for Oct Course
Date Commencement of Trg	Apr and Oct
Training Academy	OTA, Chennai

Important websites:

S.NO	NAME	WEBSITE
1	CBSE	http://WWW.CBSE.NIC.IN
2	JEEMAIN-2013	http://jeemain.nic.in
3	JEEADVANCED-2013	http://jee.iitd.ac.in/
4	NEET MEDICAL EXAM	http://cbseneet.nic.in
5	KERELA STATE ENTRANCE	http://www.cee-kerala.org
6.	CUSAT ENTRANCE EXAM	http://cusat.nic.in
7	KARNATAKA COMMON ENTRANCE EXAM	http://www.kar.nic.in
8.	COMDEK ENTRANCE EXAM(Karnataka)	http://www.comedk.org
9.	ANDRAPRADESH EAMCET EXAM	http://www.apearacet.org
10	MAHARASHTRA MT-CET EXAM	http://dte.org.in/MTCET2013/StaticPages/HomePage.aspx
11	UTTAR PREDESH UPSEE EXAM	http://www.gbtu.ac.in
12	BITSAT-2013 EXAM	www.bitsadmission.com
13	NATA EXAM	www.nata.org
14	NATIONAL INSTITUTE OF DESIGN	http://www.nid.edu
15	FOR DASA ADMISSIONS	www.dasanit.org
16	FOR SPDC ADMISSION	www.edcil.co.in
17	LIST OF GOVERNMENT RECOGNIZED ENGINEERING COLLEGES	www.aicte-india.org
18	LIST OF GOVERNMENT RECOGNIZED MEDICAL COLLEGES	http://www.mciindia.org
19	CAREER MAGAZINE	www.careers360.com
20	CAREER WEBSITE	www.minglebox.com