

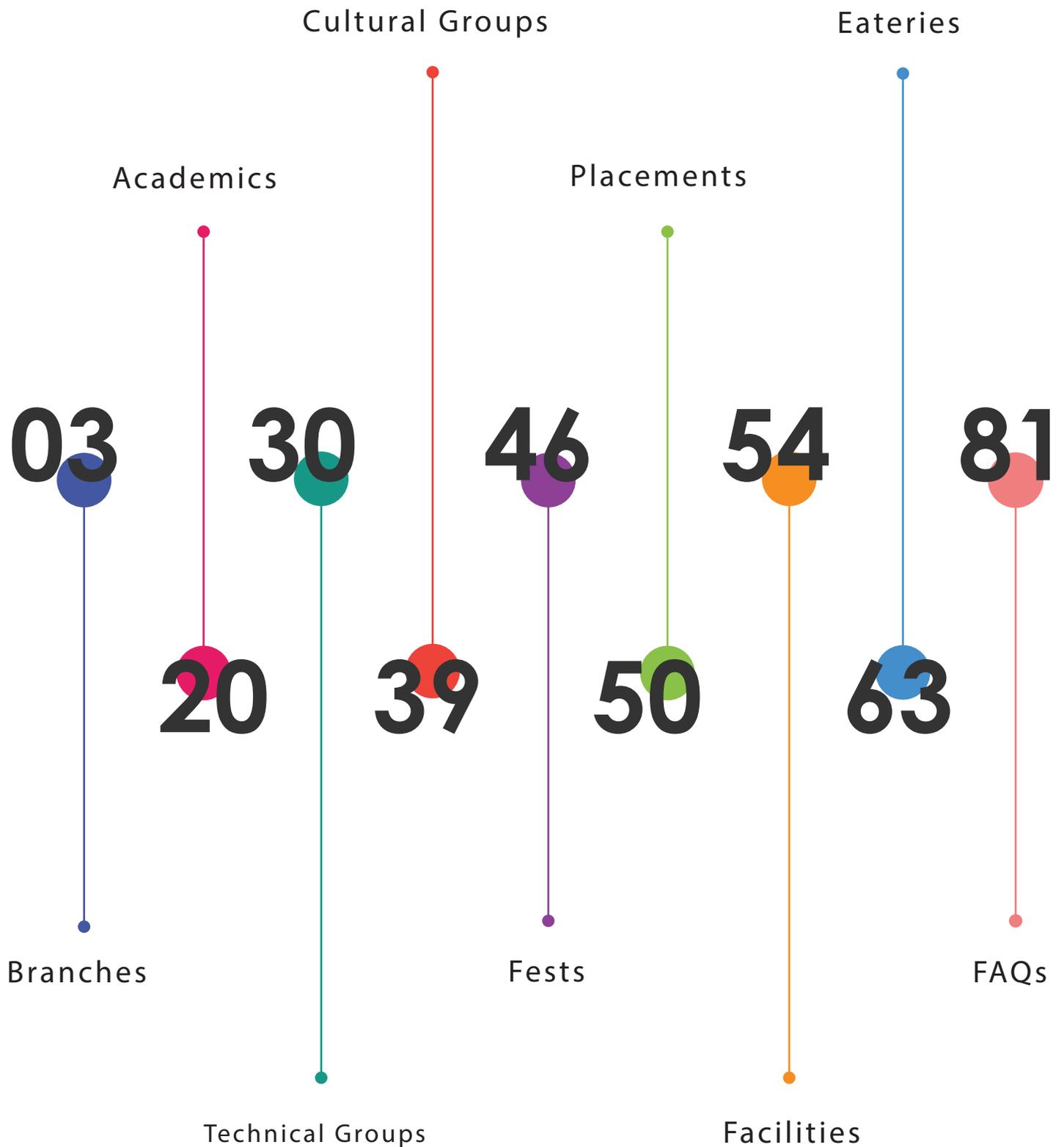
# EXPECTATIONS

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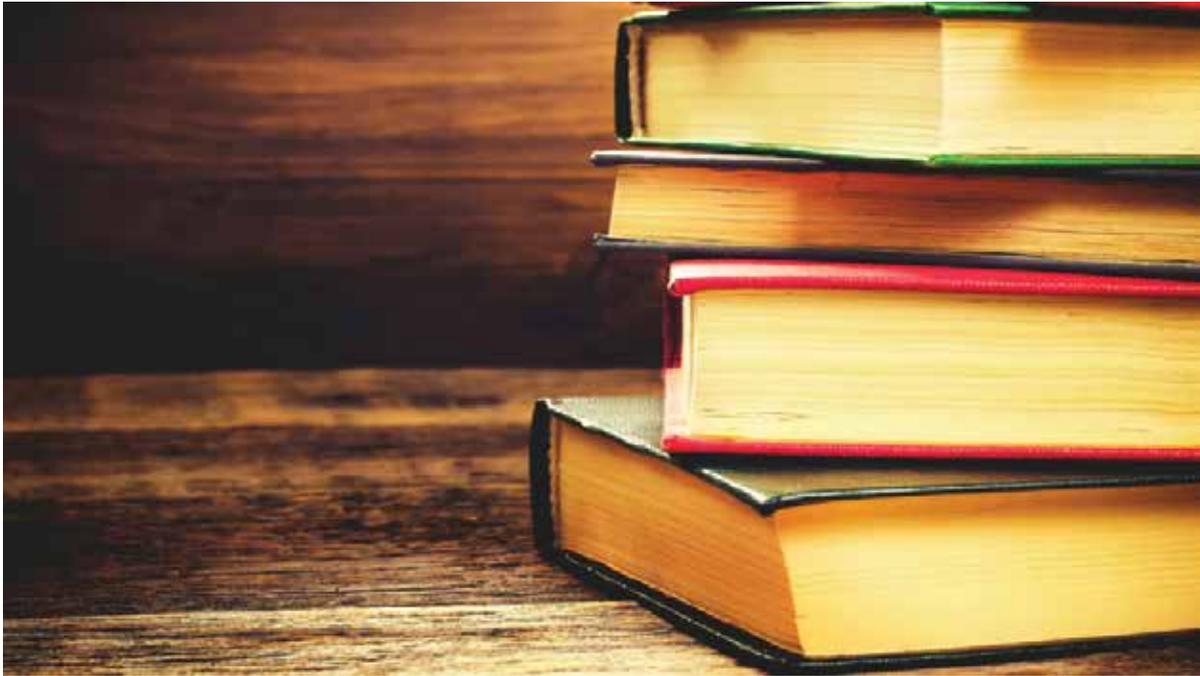
IITR



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# Branches



## Introduction

It is important to know that no matter what anyone says — academics truly do matter. Be it a branch change, or a pre-placement offer, the only friend one has are his/her grades. Academic life in college is completely different from the organised, orderly system a schoolkid is used to, based on an individual's branch and personal interests. Have a look at this guide to know what the institute has to offer, and how you can make the most of it.

## Applied Mathematics

The Department of Mathematics, IIT Roorkee offers a 5-year Integrated Master of Science program in Applied Mathematics, which was conceived in the year 2007. The program covers all the basic courses in pure mathematics, along with courses in Applied mathematics that include Fluid Dynamics, Operations Research, Theory of Elasticity, Graph Theory etc. A new, more mathematically oriented syllabus was put in place, beginning 2013. Students may also opt for an exchange program with many universities for a semester. Undergraduate research in the department is being propelled forward by students and professors alike. Students are given ample opportunities to participate in workshops, summer research internships, winter schools, etc. A CGPA of above 6 merits the INSPIRE scholarship, where the student receives 60,000 Rs per annum to aid their scientific pursuits. Several software companies and consultancy services like Goldman Sachs, Oracle, Microsoft and Royal Bank of Scotland that open for Computer Science recruit students from IMSc as well every year. Students also choose careers off the beaten track, such as in Teach for India and some have capitalised on their entrepreneurial streak to open interesting startups.

**Sector Companies offering Placement/Internship:** Accenture Private Limited Service, Adobe Systems, Goldman Sachs, American Express.

-Priya Soundararajan

## Architecture

Lying among the top positions in the list of 'Top Architecture Schools of India' (according to Outlook India) for last 3 years, Architecture and Planning Department at IIT Roorkee is the perfect place to get an architectural degree. The department offers a perfect combination of academic and competitive base for students. Being part of one of the country's first engineering university (now an IIT), the students have access to the best faculties available in India. The students also get exposure to the professional world outside through national and international projects and internships. Seminars and workshops by world renowned architects and professionals in this field are held all through the year for students. The architecture faculty here is amongst the best. The architecture students here share a very cordial and friendly relationship. And the things that matter to freshers is the placements here add up to a perfect 100% with the lowest package being 5 lakhs per annum and the highest 11 lakhs per annum for the year 2014.

**Core Sector Companies offering Placement/Internship:** Dar Al-Handasah Consultants , Shapoorji Pallonji, Treebo BA

-Gourav Goyal

## Biotechnology

The biotech experience at IIT Roorkee will diversify your outlook at different levels. The stream entails all the aspects of life sciences, but frankly it just summarizes them. Students will be 'taught' almost everything in the syllabus, but it does not guarantee that they 'know' it or

have 'learnt' it. Getting into the depth of these aspects is their own call. It is not just all biology and chemistry; a part of biotech B.Tech syllabus is similar to chemical engineering courses too. However, it may also happen that a student might not feel the need to connect with the excessive biology or mathematics in it. In such a case, students can work on honing your extracurriculars and the college offers a lot of these eg: fests, NSS/NCC/NSO, cultural groups, startups etc. And even otherwise, students make most of their friends here and how to organize activities in the campus via the institutional setup. Internship wise, an average student can easily get a great research project in universities of repute. As a matter of fact, a lot of pass outs have worked on Parkinson's' disease, cancer therapy and genetic engineering labs in India and abroad during their internship! As for scope, if one ends up loving life sciences, they can plan to study until PhD from a reputed university after which they can work as a post-doctoral researcher at labs in organizations. After 2-3 real good researcher positions, they might become a group leader, principal investigator or an assistant professor, which have a well-settled life but limited increments in income. 'Research' and 'package' are two different things, and it's something students should be clear about from the 1st semester itself. One can also combine both, by working in the industry as a research scientist. It's a great branch; make the best of it.

**Core Sector Companies offering Placement/Internship:** Reckitt Benckiser

-Geetika Nehra

## Civil Engineering

In IIT Roorkee, the life of a civil engineering student is much more than just studying, attending classes and examinations. The curriculum provides you with many opportunities to deal with challenging problems and real life situations. You get to interact with highly qualified and experienced faculties. The best part is that many of new faculties are young who not only provide you academic guidance but also act as off-class guardians. The department offers opportunities for development beyond the classroom which includes societies like CEC, foreign internships, international exchanges in addition to the prospects to work on challenging projects and participate in new research

**Core Sector Companies offering Placement/Internship:** Shapoorji Pallonji, Shimizu Corporation, L&T Constructions.

-Lotus Bajaj

## Computer Science Engineering

The Computer Science and Engineering Department, IIT Roorkee is ever growing and constantly changing to match the pace of the industry demand. The course structure is designed to provide the students with a holistic feel of computer science as a field in the early semesters, and specializing and diverging into specific domains in the later semesters through various electives and major projects. A fresher is first equipped with the core capabilities fundamental to CS, such as data structures and algorithms, discrete mathematics, networks and graph theory, and later given the choice to specialize into one of the research branches. The

department has ties with IBM Research Labs, Adobe Research, NVIDIA and Cisco, helping students take up projects in collaboration with the players in the industry. The focus of research is to push the state-of-the-art forward in the fields of data mining, machine learning, image processing, computer networks, natural language processing and social media analytics. During placements, our pupils are deemed worthy by tech giants like Google, Facebook, Oracle, Adobe, IBM, Microsoft, Samsung; finance and banking giants like Goldman Sachs and WorldQuant, to name a few.

**Core Sector Companies offering Placement/Internship:** Adobe Systems, Microsoft, Goldman Sachs, Google India.

-Vikram Rathore

## Electrical Engineering

In IIT R life of an Electrical Engineering student is nothing short of an exciting roller coaster ride, full of ups and downs. Electrical Engineering department at IIT R is one of the oldest of its kind in India. It is also one of the most important departments on campus and is involved in big budget government projects such as Virtual Lab. It has some of the finest professors, most of them being alum of this very department. With a second highest undergraduate intake you can be rest assured that there will be enough competition among students in academics as well as co-curricular activities. Electrical Engineering students have made their mark everywhere from sports to campus politics to annual placements. With an average placement package of around 8 lacs per annum and students getting placed in biggies like Goldman Sachs and ITC one can be rest assured of landing a decent job once he joins the Electrical

Engineering department. Even on the research front the department is slowly gaining momentum with some quality research work being done under some of the senior most professors. Conferences like CERA 2013 and NPEA 2010 were come of the biggest held in the country and were well attended by students and professors of Indian as well as international universities.

**Core Sector Companies offering Placement/Internship:** Texas Instruments, Tata Group, Shimizu Corporation, ITC Ltd

-Amey Sahasrabudhe

## Electronics and Communication Engineering

Electronics and Communication Department of IITR offers a 4-year bachelor course and 2-year Masters Course in various fields involving Microelectronics, Control Systems, Signal Processing and Communication. The course structure for undergraduate students is divided into three main groups VLSI circuits (Very Large Scale Integrated circuits), RF (radio frequency), and Communication. There are some really good professors in all the three groups, undertaking research in most recent areas and collaborating with industry as well. The new course structure is beneficial to students as most of the required courses are completed by the end of 3rd year. That way students can apply their knowledge in the internships as well. Most of the courses especially communication courses are highly mathematical. Circuits courses generally require a sound interest in physics. First and second year, you will see most of the basic and advanced circuit courses. Communication part will begin from 2nd year onwards. Third year encompasses laboratories on the subjects you have already studied. Under

new course structure, you can also take up Minor specialisation in other branches or Honors specialisation in ECE Dept from 6th semester onwards. The department offers Honors specialisation courses in all three above fields.

That said, Our department has the reputation of having some of the most difficult courses and most strict teachers in IITR. The courses really require focus and hard work.

Labs in department are improving for all the fields and significant research work is accomplished in these labs. We are not limited to academics, you will find students from our department in key position in almost all cultural societies, hobbies club and technical festivals. There should never be a time when you don't have anything to do. If you are a part of IITR E&CE Dept. you can always consult Anand Bulusu, Vinod Pankajakshan, Debashish Ghosh sir, N.P. Pathak, Kartikeyan Sir for any type of guidance at any point of time. Some professors might sound rude but they are in fact very welcoming and accommodating when you visit them for guidance. We would just say that you need not fear from any professors and better talk to them as and when required. Discuss things with them and take up projects from your area of interest. Especially those who want to pursue electronics, projects are must. In terms of placements, Electronics and communication department has one of the best placement stats in the campus, next only to CS. Some of our top recruiters are Texas Instruments, Analog Devices, Qualcomm, Nvidia, Freescale semiconductor. Non-core companies like Facebook, Directi, Goldman Sachs, Flipkart, Microsoft also provide opportunities. While many students sat in the placements, many others joined IIMs, some cracked the prestigious UPSC exams and some went for other Postgraduate programs.

**Core Sector Companies offering Placement/Internship:** ANEL Emirates General Contracting, ISRO, Texas Instruments.

-Vineet Singla & Deep Jain

## Geological Technology

Many times you might have come across the word 'Geology', whether from the common pet phrase of 'Geology Rocks!' that of Ross of the famous and evergreen sitcom FRIENDS or from countless 'Geological Technology' in your brochure and Ordinances & Regulations booklet. You might have felt landing on a whole another planet when you heard about your allotment in this particular branch, but if you have researched a little, you would know there is a lot this branch has to offer.

To begin from scratch, Earth sciences is a branch of science that deals with the systematic study of Earth and its processes occurring on and beneath the surface of Earth. Earth Science being an observational science requires a combined knowledge of Mathematics, Physics, Chemistry and even Biology. To be more specific, Earth sciences can be divided into two major disciplines: Geology and Geophysics. Geophysics involves studying dynamics of Earth whereas Geologists get to have an in depth interpretation of various geological features and their application in the industry.

This field has a lot to offer both in the field of Research as well as Industry. Research deals with core subjects like Petrology, Economic Geology, Ore Geology, Fluid Inclusions etc. which are taught in the first three years of your stay at IIT Roorkee. Industrial application deals with Structural Geology, Stratigraphy, Sedimentology, Logging, Remote Sensing, Mineral Exploration, etc. Field trips are an integral part of the

course with two of them being organised in second and third years. The best part of the curriculum you can say!

Geologists play a key role not only in the Oil & Gas sector, but also in the mining industry. With the tremendous growth of artificial intelligence and remote sensing & GIS, the field has exponential potential for growth. And ah! How can we forget about placements? The recruiters for this branch during the infamous 'Placement Season' include mighty global conglomerates such as Schlumberger, Shell, Cairn and PSU's like ONGC, Coal India, etc. To look at the placement stats and average salaries before applying for companies is too mainstream at the R-land. But a word of caution: these can be very misleading as these range from 7 lpa to 32 lpa; showing high variance because of some highly paid candidates.

Most of you might be thinking that you landed up here because of your screwed up JEE ranks and will go for branch change for sure. But before that, build your interest a little bit in this latitude and unravel the opportunities this branch has to offer. You might literally end up being a researcher at MIT or having a considerably high package at Schlumberger

**Core Sector Companies offering Placement/Internship:** ONGC, Schlumberger.

-Bhavjot Kaur

## Geophysical Technology

The program consists of individual separate courses for all the geophysical exploration techniques, course on Signal Processing, geology related courses and topics such as Geophysical Inversion, Geophysical Forward Modelling and Mathematical Methods in Geophysics, which are

more relevant with the research aspects of the subject. In terms of research, subjects like Inversion, Modelling etc. have been at the helm of cutting edge research owing to a good atmosphere in the department. Besides fields like Seismics, Potential Methods, Seismology etc. too are some of the areas witnessing quality research work in the institute. There are Scholarship Programmes sponsored by esteemed foreign and national institutes, which facilitate and promote the culture of scientific research in the field. Many students from the department have benefitted from such programs like SRF (by IASc), DAAD, CHARPAK etc. Besides, the students of final year who are supposed to carry out dissertation and thesis work, are awarded a monthly scholarship of Rs. 8000 funded by the MHRD. There are regular guest lectures from visiting guest faculties from the E&P industry or from acknowledged institutes like NGRI, WIHG etc. There is an active student chapter of the international body i.e. SEG (Society of Exploration Geophysicists), at the department, which is known to conduct regular events and guest lectures as mentioned above. In terms of placements, the core companies pertaining to the course are from the Oil or Mineral Industry such as Shell, Schlumberger, Cairn India etc. to name a few. These companies are known for their high pay scale and work ethics. The students of the department have also been placed in various non-core esteemed companies (software and finance firms) like RBS, Cognizant, Mu Sigma etc. The years to come are looked upon with high hopes as far as placements, reason being the inflow of a large number of core companies in the country for exploration purposes, owing to much improved and liberalised government policies.

**Core Sector Companies offering Placement/Internship:** ONGC, Schlumberger, Shell India.

-Bhavjot Kaur

## Engineering Physics/ Integrated M.Sc. Physics

They say all science is either Physics or stamp collection. True that. Ideas and discoveries in Physics have not only incredibly enhanced our understanding of the physical world but have also provided the main driving force behind all the recent technological advances. A good engineer must not only know how to use a technology but also have a strong grasp of the underlying fundamental principles. The B.Tech. Course not only stresses on the core physics and mathematical tools that underly the most technological developments but is also an amalgamation of various interdisciplinary courses from the field of Electrical & Electronics such as Electrical Machines, Analog/Digital Electronics, Microprocessors, Semiconductor Devices, Computational Techniques, Signals and Systems, etc. that are useful for technological applications. This, coupled with several interesting fields in Applied & Modern Physics like Quantum Physics, String theory, Lasers, Photonics, and Plasma, makes for a very thorough and interesting course. The Department of Physics is well equipped with state-of-the-art equipment and technologies in all of its labs that deal with the fields like lasers, nuclear physics, superconductivity, thermal physics, quantum optics, and many more. This course provides you a hands-on experience with these technologies. The Department itself offers courses on Data Structures, Signal processing, Image processing, Optoelectronics, Space technology, Quantum Computation, Nanosystems and technologies, Biophysics, etc. as electives along with practical training in the industry later during the course that leads to an excellent preparation for a broad range of careers. Research is an important aspect of such a course. As a student, being excited about physics and somewhat forthcoming, you should be able to engage yourself in some quality research with the professors (or even

alone), which would be a rather illuminating experience. Many of us visit renowned places in India, Germany, USA, Australia etc. and do some excellent publishable work. These include, but not limited to IISc. Bangalore, BARC, PRL, TIFR, IUCAA, SINP, other IIT's etc. and are sponsored by DST, ISRO, DRDO, AICTE, CSIR etc. Abroad, we target CERN, Max Planck Institutes in Germany, Wisconsin, Georgetown (US) amongst others. The uniqueness of this course being that after completion, it opens up a number of career options. You will not be limited to a particular field (You can now branch out and go for specialization in any field of your choice.) because you now have a strong foundation in core sciences along with the technical know-how. Be patient and you'll be prepared for challenging careers in R&D institutions all the way to entrepreneurship in future developments.

**Core Sector Companies offering Placement/Internship:** Qualcomm India Private Limited, Thermo Fisher.

-Ashmeet Singh & Mohan Agarwal

## Integrated M.Sc. Physics

*The Integrated M.Sc Physics(5 year) course was discontinued from the year 2015 and has been reinstated this year. The course will be offered by the Physics Department which also coordinates the Engineering Physics course.*

## Mechanical Engineering

Mechanical Engineering at IIT Roorkee will take you through courses as primitive as Engineering Drawing to as advanced as Advanced Robotics (pun intended). The course structure is designed to introduce you to the basics of Mechanical Engineering in the first couple of years and later it diversifies into specialized fields with electives and projects up for grabs. The curriculum is not exhausting, with repetition in few courses, leaving you with ample time to get involved in extracurricular activities on campus. Professors are mostly at par with the expectations with some of them doing exceptional research work in the areas of Vibration Analysis, Experimental fluid dynamics, Microfluidics, Heat transfer, etc. The department houses laboratories and workshops in almost every field of the study and is aided by extremely helpful support staff. With little self-motivation and a tinge of curiosity, you can indulge yourself in some quality research under Professors. Having a good research profile will land you foreign internships in USA, France, Germany, Canada under the programs such as S.N. Bose, Charpak, DAAD, Mitacs respectively. Core companies like ITC, Tata Steel, Tata Motors, General Motors, Mahindra & Mahindra visit the campus for placements. Many people also prefer non-core jobs which statistically offer higher packages.

**Sector Companies offering Placement/Internship:** TATA Steel Ltd., ITC, Ford, Mahindra & Mahindra Ltd

-Amaan Mansuri

## Metallurgical and Materials

Having to choose Metallurgical and Materials Engineering (Meta as is called here) in IITR out of compulsion, never did I think I would go on to love this branch to a great extent. As a wise man once said “Make the most out of what is given to you”, I decided to give it a shot and implausibly I loved it! The beauty of the course, however, lies in the fact that the experience just gets better with time, just like an old wine! Meta is a paragon of Physics with bits and bits of every discipline of engineering. Metallurgy, however, is growing redundant but Materials engineering is just the opposite. Frankly speaking, like Biotechnology it also is primarily a research oriented branch. Our department boasts of an erudite faculty, superb infrastructure and a motivated students society (METES)-the perfect recipe to develop solutions to the imminent problems in industry and daily life. We boast ourselves to be called one of the most ‘chilled out’ branches in the institution due to less academic workload, giving you ample time, and opportunity to work for your dreams. However, if you don’t like physics or fail to build your fundamentals strong then you will be struggling a lot in the subject resulting in everything bouncing off your head and frustrating yourself a lot. While many choose to be employees, there are many who choose to be the boss too! In the field of research, the sky’s the limit. So if you think you can take on the world and challenges, you would be the perfect fit for the branch. The catch is you can do this by staying in the branch as a scientist or pursuing other streams of your choice. One thing is for sure, though, you will be only come out wiser and better.

**Sector**   **Companies offering**   **Placement/Internship**   Applied  
Materials, Schlumberger, EATON

-Amaan Mansuri

## Polymer Science and Technology

The shift of the branch from Saharanpur Campus to the Main Campus has been welcomed with great zeal. The current first yearites (soon to be second yearites) find their temporary home in the Chemical Department with a promise to shift more and more facilities from the Saharanpur Campus to the Main Campus. Majority of the first semester courses for all the branches are common. In the second semester, few of the courses are common with the Chemical Engineering students while the rest are majorly conducted by the Chemistry Department or from the Polymer Department in Saharanpur Campus through teleconferencing. The teleconferencing facility is quite functional and good. The students may have to make visits to the Saharanpur Campus 3-5 times a semester. The visits are a relief from the daily routine and are full of treats from the professors there and experiences with high-end laboratory equipment. Due to the ignorance about the shift to main campus, the cutoffs for the branch remain quite low but with an extended lifetime in the main campus, the cutoffs are expected to increase. As for the opportunities, there is wide scope for research internships in the country as well as abroad due to the scarcity of courses with specialization in Polymers at the undergraduate level itself. The professors in the Polymer Department are also happy to help by offering research projects in the institute itself. In the placements, there are a bunch of core jobs up for grabs. Due to a small branch strength, these jobs are easy to land with consistent work towards achieving it from the beginning.

**Sector Companies offering Placement/Internship:** Inteva Products, Huhtamaki PPL, MITAOE.

-Abhishek Gupta

## Production and Industrial

Production and Industrial Engineering is an amalgamation of manufacturing technology with management science. In industry, P&I engineers deal with integrated design and efficient planning of the entire manufacturing system. They are the people in-charge of the different processes which require transforming raw materials into manufactured products. The topics covered in this discipline radically transform the thought process of the students and are applicable everywhere, irrespective of the line of work. The curriculum is not tiresome and gives the students ample time to work on themselves and their projects. Moreover, students are taught in detail the relatively new concepts such as Lean Management, Six-sigma, TQM etc. which are used in industries globally. As far as the scope of this discipline in is concerned, it is limitless. One can choose a career in operations, manufacturing, design, R&D etc. For those who have MBA as an option later in their career, P&I could prove to be extremely useful. The placements at IITR, however, are not extraordinary (with exceptions). For someone looking for an overnight jackpot, this may disappoint you. Other than that, P&I students are at par with their mechanical and chemical counterparts in terms of the number of openings and the packages offered. For those who wish to pursue a core-oriented career, the placement opportunities in IITR are few and not lucrative enough at the moment. However, that is changing and with time it will improve. Research opportunities in this field are aplenty and there is tremendous scope for the same with studies being conducted amongst the best institutions across the globe.

**Sector Companies offering Placement/Internship:** Ford, Tata Steel Ltd., Exxonmobil.

-Sameer Rastogi

# Academics & Opportunities



## Introduction

Backed by a history of over 150 years, Indian Institute of Technology Roorkee is one of the finest institutes providing scientific and technical education in India. Started in 1845 as an institute aimed at training local youth for the engineering works being started around India, IIT Roorkee, today, has become a force to be reckoned with in the sphere of technical education with its students and alumni having a good standing and reputation at the global stage. With an intake of approximately 1000 undergraduates every year, IITR has around 8000 students enrolled in its UG, PG and PhD courses as in 2016.

The academic year for students at IIT Roorkee is divided into two semesters (Autumn and Spring) with course work evenly divided among them. Generally, the semesters begin in the months of July and January and run for a length of around four and a half months. For most of the

students, the number of courses taken in a semester lies between 5-7. The courses for all the students of a particular branch are largely same for the first two years while for the latter half students have the liberty to take diverse set of courses based on their preferences of electives, minor specializations or audit courses. The two semesters are suitably spaced out by the two vacations; the summer break which is approximately two months long and the winter break which is one month long and runs for the duration of December. These vacations are utilized by the students by taking up some research projects or internships. Learning new skills and exploring new interests is also one, and probably the most-recommended, way for spending the vacations for the first-year students.

As far as the academic evaluations are concerned, a credit based system is followed wherein every subject is allotted a certain number of credits based on the number of hours (or sessions) for which a student will be engaged on that subject weekly. These credits form the weights for a subject while calculating the SGPA or Semester Grade Point Average. The CGPA or Cumulative Grade Point Average is the weighted average of all the semesters. The grading for a particular subject is done on a scale of 10. The grading pattern followed is relative in which the grade of a student is determined on the basis of his position in the statistical distribution of all the marks scored in the subject. This basically means that the grade for a student not only depends on the marks that s/he has scored but also on the performance of his/her peers.

As far as the course structure is concerned, courses for students pursuing either the four-year B.Tech or the five-year B.Arch programme are divided into five categories, namely- Institute core, Programme core, Institute elective and Programme elective courses and extra-curricular activities. The former two are important to give students a basic

knowledge of their majors. Electives are provided so that the students can choose from a list of courses under various departments based on their personal interests. Different departments have different institute and core electives for students to choose from. Most of the courses have lectures and tutorials sessions while practicals are available for some. Students must earn a certain number of credits to receive their majors. Minors and honors are also available to students with CGPA > 7.5. All in all, IIT Roorkee provides ample opportunities for its students to explore their branch; at the same time the curriculum and the work hours are lenient enough to let you explore your interests in other branches and even in fields out of academia like entrepreneurship, arts etc.

## Branch Change

Finding people in IITs who are enrolled in a branch that was not their first choice is not a rarity. Also, owing to the limited knowledge that people have about the different branches and their curriculum, choosing the right branch for yourself is not as easy as it may seem. In order to compensate for this almost all the IITs provide an option of branch change for the students including IIT Roorkee. Contrary to most of the other IITs that offer an option of branch change at the end of the first year, at IIT Roorkee the process takes place at the end of the first semester itself.

Talking about the technical details related to branch change, there isn't much actually. As stated in the UG Ordinances and Regulations 2016, all the undergraduate students except for the students enrolled in the B.Arch course are eligible for a branch change. This also means that there are no restrictions placed on changing from a five year course to a four year course or vice versa. The change of branch takes place against the

number of vacant or unoccupied seats in the branch or two(2) whichever is higher. The unoccupied/vacant seats are filled only on the basis of merit(read SGPA) in that particular category in which the seats are vacant, however the two extra seats are filled on the basis of combined merit and have no reservations. Also, in the cases where two people with the same SGPA have the same preference of branch, the JEE Advanced rank is used as a tiebreaker. There are a few other criterias that need to be fulfilled for a branch change such as not having backlogs and not having been penalized for indiscipline, but in most cases these will be implicitly fulfilled even if you have a near-decent shot at a branch change.

When we come to the rigour associated with getting a branch change, it actually depends on the branch that you are trying to change to. Based on general trends, the branches which are most sought after in the JEE counselling also become the most desired branches during branch change. For branches like CSE, the competition is very tough and one might miss it even after scoring a perfect 10 SGPA. As we move other branches, it becomes comparatively less difficult but is still arduous enough. The most efficient and probably the best way of scaling this task to workable limits is consistency. Attending the classes regularly and taking proper notes are recommended if not exhorted. The pursuit of getting a branch change will also involve some sacrifices on your part such as completing all the tutorials on your own (and watching your batchmates copy them, thanklessly) and missing out on some chapos, but in the end it will be all worth it. The added benefit is that even if you miss out on a branch change by some grade points, you will have a healthy CGPA at the end of your first semester, a thing that will prove to be really helpful in the long run.

## Minors and Honours

The prime objective of engineering, as a profession, is solving problems. With rapid advancements in technology, the technological problems that is associated with them is becoming more and more complex. In order to equip the students graduating from the college with better skill-sets and knowledge base, the provision of pursuing a Minors in some other department or an Honors in your department of study has been introduced in IITR.

### **Minor Specialization**

Students who are willing to excell in some specialization other than his/her own department, have the option for doing a 'Minor' specialization in that department. A minimum criteria of 7.5 CGPA has been set for opting Minors. It consists of 4-5 additional courses equivalent to 18-20 credits that need to be taken up in the pre-final and the final year of college. Also, it is not necessary for the specialization to belong to the same discipline of study and it may be taken from any one of engineering, management, science and humanities. Before the beginning of every semester, courses being offered for a particular minor specialization are floated and students have to pick up a few from that basket. These courses are called Minor Specialization Courses and have a fixed number of seats. For the people who successfully fulfill the required credits have the name of the minor specialization aptly mentioned on their degree they receive upon graduation.

### **Departmental Honours**

The basic structure of Departmental Honours is similar to Minor Specialization. Students with interests in their own department and

having a CGPA greater than 7.5 can take 4-5 extra courses from their department and pass out with an Honours degree. The courses for gaining an honours degree are floated before the beginning of every semester by the concerned department and are called Departmental Honours Courses. Similar to Minors, a student passing out with an Honours will have it mentioned in his degree.

## Research

Being one among the most sought after institutes of the country, and hence, an agglomeration of some of the brightest minds, IIT Roorkee is an institute that is expected to have a firm-footed research culture and produce some unparalleled research output. These assumptions turn out to be true but only to limited extents. Owing to the heterogeneity of the student population in terms of their interests and future aspirations, the research culture at IIT-R lags behind a few other research centred colleges in India (read IISc, IISERs, etc) but is still dynamic enough to provide adequate opportunities to the enthusiastic. On a positive note, the state of undergraduate research at IIT Roorkee is consistently improving both due to the efforts of the administration and also the student community (essentially, people who are already pursuing a career in research).

Research activities at IITR are aptly supported by proper infrastructure and facilities. The Central Library at IIT Roorkee is a member of the National Digital Library Consortium through which students can gain access to over 15000 journals belonging to various domains of Science, Engineering and Technology. Apart from this, several standard books on varied topics are present for the reference of students at both the Central and the departmental libraries. Talking about infrastructure, the institute

has several dedicated facilities like the Institute Computer Centre and the Institute Instrumentation Centre, apart from the departmental laboratories and research centres. In addition to this, the newly set-up Tinkering Lab provides free 3-D printing facilities to the students which could provide a huge boon for engineering-based research taking place at IITR. All this is supported by a 400 member strong faculty where some of the professors are the pioneers in their field at the global stage.

The step of initiation for any undergraduate at IITR, in the field of research, is generally taking up a project under a professor. There is no set procedure for doing this. Just being on the lookout for professors who have common fields of interests and discussing the prospects of a project with them is sufficient. The process is actually much easier than it sounds. After having started working on a project, the outcomes generally depend on the amount of hard work put in and some people even succeed in getting their research published in renowned journals and conferences.

Apart from that, the institute also offers funded summer research program for undergraduate students called SURA. Four to five projects from each department are selected to be undertaken as SURA projects. The selection of projects is done on the basis of the proposal and a presentation and the members of the project are reimbursed a small amount to cover their expenses of staying the campus. The application forms for SURA are filled during the Spring semester after receiving consent from a professor in the concerned department to supervise the project. Awards are also given to projects that successfully get their research published at the end of the program.

A lot of national and international programs also open their doors for the students of IITR for pursuing research in various top institutions around the world. Through these programs, students are offered funded research

internship positions during the summer breaks. Summer Undergraduate Research Fellowship(SURF) offered by CalTech, Charpak Scholarship offered by the Embassy of France, German Academic Exchange Service(DAAD) for German Colleges and Mitacs Globalink Research Internship offered for Canadian universities are some of the many programs utilised by students for getting an international research exposure. Other programs such as those by Indian Academy of Sciences(IAS), Tata Institute of Fundamental Research(TIFR) and various IITs and IISERs offer similar research opportunities in India. To apply for these programs, it is important to keep track of updates on their websites since the beginning of the Autumn semester. Students also have an option for undergoing a semester exchange at colleges such as KTH Royal Institute of Technology Sweden, Lucerne University of Applied Sciences and Arts Switzerland, York University Canada, HTWD Germany, ESTP France, University of Southampton, IIT Delhi and IIT Bombay.

Talking about further studies, a considerable number of students from IIT-R get selected for reputed MS and PhD programs around the world in colleges including MIT, CalTech, CMU, UC Berkeley, Oxford, etc. A decent CGPA, a few good research projects and good scores in the standard examinations (like GRE) are the prerequisites for converting to such programs. Altogether, even though the research at IIT-R lacks behind on some pointers, the university succeeds in providing ample opportunities to people who have the will and grit to pursue core research as a career. The brand name associated with the IIT and the reputation of college's alumni always become a handy advantage while applying for research positions in India and abroad.

## Scholarships

The institute offers scholarships, fellowships and fee concessions to its students apart from providing bank loans. Fellowships are made available to PG students only. Following is a non-exhaustive list of some scholarships you can avail while at IITR.

**Merit-Cum-Means Scholarship-** This scholarship is awarded to 25% of the undergraduate students based on their family income and merit.

**How to apply-** The form is available on channell notice board in the beginning of autumn semester. It has to be submitted along with an affidavit and an income certificate.

**Website-**[https://www.iitr.ac.in/admissions/pages/Financial\\_Aids+Scholarships.html](https://www.iitr.ac.in/admissions/pages/Financial_Aids+Scholarships.html)

**Aditya Birla Scholarship-** Students in the top 20 of the institute according to their JEE ranks are eligible to apply for this scholarship, which they receive after clearing a written round and an interview. This scholarship is given to students studying at IITs and BITS Pilani.

**How to apply-** Applications are submitted via the Dean as soon as the first week of August. These applications include a write-up about one's aims and vision for the society. Shortlisted candidates have to appear for an interview in Mumbai in mid-October.

**Website-** <http://www.adityabirlascholars.net/>

**Inspire Scholarship-** This scholarship is awarded to students for undertaking Bachelor and Masters level education in Natural and Basic sciences. Students enrolled in Integrated Mathematics can avail it within a month after admission.

**Encore Scholarship-** This alumni-funded scholarship is awarded to meritorious second and fourth-year students during the autumn semester.

**How to apply-** The application form is available on the website from August and a notice is posted on Channell regarding the same. Candidates who are shortlisted on the basis of application have to clear an interview to become eligible for the scholarship.

**Website-** <https://sites.google.com/site/iitrencore89/>

**Google Anita Borg Scholarship-** This scholarship is awarded to women at under-graduation/ post-graduation level in the field of Computer Science, Computer Engineering or a closely related branch. The application is available on womentechmakers from mid April until mid of May (may vary by a week or two).

**How to apply-** Applicants need to submit write ups to four to five essay questions along with their resume/cv and transcripts.

**Website-**<https://www.womentechmakers.com/scholars>

**Heritage Awards-** This scholarship is awarded to students of all branches from second year onwards who excel academics as well as extra-curricular activities during the autumn semester.

**How to apply-** The application form is available on the website from September to the beginning of October.

**Website-** <http://www.iitr-heritagefund.org/heritage-awards>

**James Thomson Scholarship-** Announced recently, the James Thomson Scholarship facilitates the students entering IIT Roorkee through JEE Advanced to avail a monthly scholarship of ₹25,000 per month if they satisfy any of the following two set of criteria— any student with an All India Rank within 300 can benefit from the scholarship apart from the best-ranked student from every department if s/he has an All India Rank within 500. As the scholarship has been announced recently, the procedure for applying and other associated detailed are not yet available. Information regarding these will be passed on to students upon arrival, by the concerned authorities.

# Technical Groups



## Introduction

Technology is an integral part of our daily existence. And it should come at no surprise that at IITR — futurology and innovation runs in our blood. To bring forth innovation in forms unbeknownst, the multitude of technical groups that promote science, technology , robotics, automobile engineering, consultancy or entrepreneurship. These groups aspire to better everyday lives of the populace and represent the college at national and international levels, as well as providing great opportunities for personal development for individuals.

## SDS Family

SDS family or Software Development Society is an assemblage of five different technical groups- SDS Labs, Programming and Algorithm Group(PAG), InfoSec IITR, Mobile Development Group(MDG) and the recently formed Data Science Group(DSG). The SDS Family is an apt place for coding enthusiasts, pro-hackers, mobile app developers, UI/UX fanatics and algorithm nerds. SDS offers a plethora of opportunities in the form of various local and internationally held contests, lectures and Startup guidance. It is a platform where the many techno geeks and noobs alike, transform into adept professionals

## SDS Labs

SDS Labs is synonymous with cool gadgets, intelligence and perhaps super-human intelligence. If coding piques your interest then this is place wherein you will find yourself en rapport with. The recruitments take place in the second semester giving you ample time to brush up your basics in the first. The members are adroit coders working in languages like C++, Go, PHP, Ruby, Node.js, Python. They also conduct lectures and workshops regularly thus, maintaining a coding environment on the campus. Members of the SDS Labs are constantly in the spotlight for winning various coding contests, hackathons and getting selected for the prestigious Google Summer of Code. Apart from the developers, the Labs also grooms highly skillful designers. So the various applications launched by SDS Labs are aesthetically pleasing along with being functionally dynamic.

## PAG

Programming and Algorithm Group, as the name suggests, is involved in helping students develop their algorithmic coding and surface their problem solving skills. The group organizes open lectures on various topics like Programming Languages, Data Structures and Algorithms. They also organize several online algorithmic contests spanning across the semester. Their flagship competition, Insomnia, held every year on Codevillage is a 24 hour contest which witnesses participation from all over the world, including the “red coders” who are considered to be the ace coders of the world. The group also organizes math contests on erdos.

## InfosecIITR

If you take delight in finding security holes and exploiting them, then InfoSec IITR is the place for you. It is a group of security enthusiasts, noobs, script-kiddies and pro-hackers. Founded with the aim to incorporate a culture of software security in IIT Roorkee, the group is arguably one of the best college hacker group in the country as shown by the consistent achievements of its members, in events like Microsoft Build the shield (BTS) and the Deloitte Collegiate Cyber Threat Competition (CCTC). Alongside, it also aims to make a team which gets to the DefCon CTF World Finals at Las Vegas. While the group comes under the umbrella of SDS, it remains open to all. The group promotes software security in campus by organizing regular meetups, participating in Capture the Flag (CTF) events and organizing CTFs on the famous SDS Backdoor platform. Further adding, few of these contests receive participation from some of the best team in the world!

## MDG

App development is the need of the hour, and Mobile Development Group(MDG) quenches this need for students of IITR. It is a group of dedicated app developers and UX enthusiasts, building utility applications and trendy games for mobile platform. This group recruits in the beginning of the second semester alongside with SDS Labs. They use various game engines and APIs to develop applications. The group has successfully released applications for the previous Thomso and Cognizance fests, along with some boisterous games like Ball x2 and Bubble Trouble. Bestowed with a good aura, the group is perfect for noobs and nerds interested in the same.

## Data Science Group

In an ever increasing data-driven culture, Data Science Group is a small and dedicated team of data enthusiasts who aim to spread the knowledge of data science in the campus. This group is for people who have general interest in various aspects of data mining, predictive modelling, big data and data visualisation. If you haven't a keen interest in Statistics, Probability, Data explorations and sorting, then this is the place for you. The team regularly takes part in competitions on Kaggle as well as Analytics Vidhya, conduct fortnight meetings to discuss research papers and work on projects, creating and implementing analytics model. The group has had a humble start, and has immense potential to reach bigger milestones with the growing importance of data in our lives.

## Others

### Information Management Group, IITR

“Work hard, Party harder”

The digital life of students at IIT Roorkee is quite comfortable thanks to the work of IMG. They handle the task of maintaining the institute website, Placement Online, and most importantly, taking care of Channel I, the institute’s own intranet portal. Whether it comes to downloading assignments from your professors, checking notices and internship offers, or sending anonymous roses to your significant other on Valentine’s day — the nifty applications designed by the talented members of IMG have got you covered. Constantly striving to improve their projects and bring new and creative ideas to life, it is a must join group for any technical enthusiast.

### Team Robocon

Robotics are, no doubt, the future. And to bring the future closer to the us, Team Robocon represents IITR in the prestigious ABU Robotic Contests (or Robocons for short) every year, with the aim of creating a revolutionary idea, and breathing life into it via the use of robotics. The competition in these contests is fierce, but Team Robocon IITR continues to prove its worth annually, and is always on the lookout for new talent.

## SAE, IITR

Society of Automotive Engineers, IIT Roorkee chapter, aims to bring together automobile enthusiasts of the college into the global SAE family. One of the most popular groups on the campus, SAE caters to all branches of automobiles, from formula one race cars to ATVs. With these individual focuses, SAE consists of two daughter organisations:

**IITR Motorsports or Formula SAE (FSAE)** is responsible for designing and developing Formula Student Vehicles (Formula styled open wheel racecars) with the sole aim of participating in the annual FSAE competition, an inter collegiate event of much grandeur. Design and manufacturing are not the only challenges – the competition also features a hypothetical firm to which the car must be sold, which brings marketing and business strategies into play. Considering the recent trends in automobile industry, the group has shifted to making electric vehicles and have done considerably well in various competitions that they have participated in. Overall, this group serves as an amazing medium for developing varied skills in different fields of Electrical and Mechanical Engineering for aspiring students.

**Team KnoX, IITR** is a group which focuses on designing All Terrain Vehicles, or ATVs. Their ultimate goal lies in participating the BAJA SAE, for which the group has held the honour of ranking first within all other IITs which participated. Their garage consists of a variety of vehicles, all improvements upon the previous, with “Sultan” being the latest ATV to be added.

## Modelling and Robotics Section, IITR

The power of creation is one which is wielded as a guiding light in the hands of the brilliant students in the Modelling and Robotic Section. As the name implies, students take on projects to construct cutting-edge bots and models, aiming to solve practical problems and implement these solutions to everyday life. MaRS holds one of the most prominent displays at Srishti every year, where these projects receive acknowledgement from the audience. A notable example was a working lookalike of BB-8, which won IITR a gold medal at the Inter-IIT Technical Meet. Anyone with an interest in robotics and prowess in mechanics, can take up a project during Srishti under the guidance of second and third year members of the group.

## Artificial Intelligence and Electronics Society

ArIES previously known as the Electronics Society has been recently renamed due to its evolving interest in projects related to Artificial Intelligence and Machine Learning. Driverless cars is one of their moonshot and an ongoing long-term project. Apart from this, they also take up projects having application of different electronic circuits. Some of these projects are year long projects, while others are for a shorter time period. The section shines in its full glory during Srishti- which serves as the breeding ground to innovative ideas. It is an open group where interested and dedicated people can take up projects. Active members from second and third year are selected to take up positions as Secretaries. Skilled members within their respective fields also gain opportunities to compete at a national level by representing the institute in the Inter IIT Technical meet.

## Astronomy Club

Since time immemorial, mankind has looked to the heavens for guidance. If contemplated carefully, all manner of knowledge can be found in the infinite planes between the stars. Astronomy club, IITR aims to provide a window to the unparalleled mysteries that the cosmos holds. It is highly recommended to attend the star parties organised by the group — the soothing experience that accompanies observing celestial bodies and the interesting discussions that follow will no doubt enthrall any and all. The club also organizes ‘Cosmic Voyage’ - an annual astronomical fest, showcasing a wide variety of activities, including guest lectures, workshops and documentary screenings. Astronomy club is an open group— anyone can join anytime!

## ShARE

ShARE is global student think tank with chapters across colleges throughout the world, primarily aiming to provide consultancy services. The IITR chapter seeks to understand the complexities of local socio-economic issues through presentations, conferences and projects. Members are registered with the global ShARE community, and take up projects on issues of their choosing and create awareness and propose solutions via the aforementioned methods. The group not only seeks to improve awareness regarding economical and consultancy in the campus, but also provide great personal development opportunities to its members as well as others via workshops and seminars.

## EDC

Entrepreneurship is one of the most popular career options for the current generation, and it is the EDC which holds the mantle of cultivating a healthy spirit of entrepreneurship amongst the students of IITR. The group works in close conjunction with the office of Dean of Alumni Affairs and International Relations, advancing on their goal of building a strong alumni database. With the inception of TIDES, a startup incubator within the heart of the college, EDC has received a massive boost in its operations, going on to successfully organise an Entrepreneurship Summit during Cognizance '17, which saw massive participation and reception. The group aims not only to help budding entrepreneurs in preparing their ideas for the market, but also aims to promote entrepreneurship as an appreciable career option to uninformed students, in the form of guest lectures, alumni discussion panels, workshops, etc.

# Cultural Groups



## Introduction

The skills of the students of IITR are not limited to academics and technology. The groups under the aegis of the Cultural society aim to promote artistic and cultural activities throughout the campus. Be it music, choreography, dramatics, debating or even stage management, any individual can discover their passion and prowess through these groups. To showcase their work and encourage students to explore their passions, the cultural groups hold various performances and competitions over the course of the year.

## Music Section

The Music section IITR is a group of talented musicians that satiates our needs for live music in a town like Roorkee where live music is a rare find. The music covered is diverse with an Indian classical music show - Swaranjali and a western music (progressive rock, jazz & blues) show - Dhun, there is something for everyone. Music covered includes songs by Porcupine Tree, Queen, Pink Floyd, Snarky Puppy, AR Rahman, Thaikkudam Bridge and various Coke Studio compositions. The practice sessions are rigorous, as is evident from the enthralling performances. Since it is a performing section, there is a threshold for the skill set required to join the section. Instrumentalists are expected to be able to play with others and improvise. A basic understanding of music theory gives an edge but isn't a necessity. For percussionists, being able to play basic time signatures and keeping time is enough to get through the recruitments. Vocalists should be able to sing in tune and hold a note properly. Being able to sing harmonies helps a ton.

## Cinematics Section

Cinesec IITR needs no introduction after their viral rendition of Ed Sheeran's Shape of you and that's not the only thing they should be known for. Hidden in the shadow of the one viral video are plenty of great short films featuring well-written scripts, clever cinematography and innovative video editing, one of which got them the first position in the online short film-making competition in the Inter-IIT cultural meet 2016. The group is filled with cinema enthusiasts who like to view the world through their cameras and if you are one of them, this is the group

to be in. An interest in screenplay, story writing, cinematography, video editing is the basic requirement of the group. Some experience in using software like Adobe Premiere Pro, Adobe After Effects, Audacity and a small portfolio will lend you an edge in the recruitment process.

## Choreography and Dance section

The Choreography and Dance section is one of the most glamorous sections in the cultural council. After their collaboration with Cinesec IITR (the viral rendition of Ed Sheeran's Shape of you), they are rather well known. Apart from that, their performances in Footloose are something you wouldn't want to miss. The audience participation in their performances is overwhelming. The countless hours spent practising and perfecting every step are quite evident from their exhilarating performances in Footloose and Jashn. The wide array of dance forms covered shows the diversity and versatility of the group. They were placed 2nd in the duet dance competition in the inter-IIT cultural meet 2016.

## Dramatics Section

One of the most prestigious and oldest cultural groups, The Dramatics section serves to entertain and engage the audience, simultaneously, with its performances round the year. From Dhai Akhar Prem Ke in 1982 to The Musical Comedy Murders of 1940 in 2016, this group of hard-working and devoted people never fail to put up a great show. They put up four production each year, three stage plays and one street play. The group, which is more like a family knit together by the love of

theatre, works tirelessly to become the best of its kind. They require nothing but passionate and free-spirited souls who love the art of storytelling. Previous experience in theatre might be beneficial, but is not important at all. However, a loud voice and a taste for strepsils is a must.

## Watch Out! News agency

Watch Out! is the official news body of IITR. It is known for the unbiased reporting of the events in the campus and the effects on the IITR junta on its website in conjunction with a semesterly print issue. Watch Out! is going to be a part of a student-run media cell essentially making a full-fledged media body of the campus.

## Kshitij

Kshitij is the literary magazine of IITR. It features poems and proses, fictional stories and write-ups in Hindi and English. The group mesmerises the college with the magic of literature and spoken words during their events like slam poetry and writing workshops, and the semesterly print magazine as well.

## Audio Section

Audio Section, as the name suggests, is responsible for setting up the audio equipment for various shows on the campus. Their cooperation is vital for shows by the Music, Choreo and Dramatics sections.

## Lights Section

What the lights section does is one of the most important, yet at the same time underappreciated, parts of any production. Lighting is critical in creating the proper atmosphere for any performance. The lights section participates in the shows by the cultural groups (music, choreo and dramatics sections) and adds another dimension to the performances.

## Programme Management Section

Programme management section is responsible for organising and managing all the events by cultural council. They handle the stage setup, decoration and the publicity for the events by music, choreo and dramatics sections.

## Literary Section

The Literary Section comprises of the Quizzing and Debating societies. Both of them work independently and conduct events which are open to all the students. The debating society organises mock debates every week, while the quizzing section host quizzes on various themes ranging from Buis-Tech to India quiz. Regular members of the Literary Section are some of the most brilliant and inquisitive minds of IITR, as shown by their consistent achievements in events like Nihilanth (Inter-IIT and IIM quizzing competition) and Inter-IIT Cultural Meet. They have open groups on Facebook which are worth being a part of.

## Fine Arts

The fine arts section is a part of the Hobbies Club. It is a group of talented artists who organise various workshops throughout the year. These workshops are open to everyone on the campus and aim to teach various forms of art ranging from Origami to Pencil Sketching. Their exhibitions in Shrishti featuring various sketches, paintings and models are glorious.

## Philately and Numismatics

If you have a niche for collecting rare and valuable coins or stamps, Philately and Numismatics Section is the place that you should be at. Preserving a hobby that is almost dying, Philately and Numismatics section houses a number of stamps and coins. The enthusiasts and learners of this field can use various catalogues provided by the section for their reference. The section exhibits its collection during Shristi and is an open group housed in the Hobbies Club.

## Photography Section

The photography section is one of the most active groups on the campus. They cover all the major events in the campus and have a fairly active Facebook page. The photography section organises numerous workshops and competitions throughout the year. Their vivid and expressive exhibitions in Shrishti showcase their skills very well.

## SPIC MACAY

IITR houses a chapter of SPIC MACAY, Society for Promotion of Indian Classical Music And Culture Among Youth. SPIC MACAY seeks to conserve and promote an awareness of the rich and heterogeneous cultural tapestry amongst the youth and the country through focus on the classical arts, with their attendant legends, rituals, mythology and philosophy and to facilitate an awareness of their deeper and subtler values. We've had the privilege to experience acts like Nizami Brothers, Pt. Ravi Shankar and Pt. Birju Maharaj in the past. SPIC MACAY also organises a 7-day long cultural fest - Virasat. Through regularly held shows and workshops, SPIC MACAY does a brilliant job at keeping our heritage alive.

## Sanskrit Club

Sanskrit Club is a group of volunteers who approach the promotion of Sanskrit with a critical scientific temper. Established three years ago under the guidance of Prof. Anil Kumar Gourishetty of the Physics Department, the club has hosted highly successful guest lectures from speakers such as Prof. Michel Danino from IITG, Prof. K. Ramasubramaniam from IITB, and Prof. HC Verma from IITK. The club conducts weekly discussions and conducts events that increase the knowledge base of the campus on traditional Indian knowledge. Formal classes to learn Sanskrit are also conducted for those students interested in its pursuit. The club has arranged for interested members, internships with researchers of renown in premier IITs. In the discussions, the members analyse Sanskrit texts of philosophy, science and literature and discuss their relevance, accuracy and source of inception.

# Fests



## Introduction

As a college student, one has to undergo battles with two forces - academics, and hunger. Whether its a late night snack you need, or somewhere to plan a grand chapo with your friends and seniors — our handy guide to eateries and restaurants around the campus has got you covered!

## Cognizance

Institutions like IIT are the birthplace of new ideas & ventures; and fests like Cognizance are just right for the purpose. Cogni, as it is fondly called, takes place in the spring semester: just after the curse of midterms gets lifted from the lives of people. This is the time when the campus is packed with action. From robot fights to racing cars and from quizzes to supercool workshops; it's the time when you form many incredible memories that stay with you lifelong. The organizing team, which comprises of IITR students, begins with the groundwork months before the prestigious event, to keep up with the standard set in the past few years. We have been host to some eminent personalities like Richard Stallman, Ira Singhal, politicians like Manohar Parrikar, dexterous artists like Anthony Cappetto, Kate Chruscicka, Amar Sen, Andrew Lee; and comedians like Sorabh Pant, just to name a few. Besides Nobel laureates like Ada Yonath, geniuses like Prof. CNR Rao, Sam Pitroda, Ajoy Ghatak, Vinita Bali, and Harry Kroto have also graced the fest with their presence. Go ahead, hit them all up on Google and gift yourself some awe.

## Sangram

Sangram is the annual national-level invitational sports meet of IIT Roorkee held in the month of April that observes participation from various colleges like IITs, NITs, BITS, and other private institutions. It is a sincere effort made by the students and the sports administration to continue our tradition of celebrating sportsmanship and giving an opportunity to aspiring athletes to participate and gear up for the Inter-IIT sports meet in December. Events in the following sports and

games are conducted:

Athletics

Badminton

Basketball

Chess

Cricket

Football

Hockey

Lawn Tennis

Squash

Table Tennis

Volleyball

Weight Lifting

Taekwondo

Games like chess and taekwondo have been introduced recently, thus expanding the scope of the festival. Each year new equipment and sports gear are ordered and funds are put to use in renovating courts and other sports facilities so that Sangram can take place without a glitch. The success of the meet can be estimated from the fact that even our alumni take time off of their busy lives to sponsor us and participate.

## Srishti

Srishti is known to be marked by a wide spectrum of colours, a plethora of brilliant minds, mesmerising moments for artists and of course, myriad beautiful ideas. Another hue in the celebrations of IITR, at Srishti- the festival of Hobbies club, creativity knows no bounds. The two day event witnesses events and exhibitions of different fields

including fine arts, gardening, photography, stargazing, robotics, electronics, software development, philately and numismatics. Some of the highlights of the exhibitions are Light painting robots, Radio Telescope, Motion Gaming, AR Drone and many more. Apart from the vibrant display of art, the lighter part of the fest such as fun-filled competitions like face painting; photo booths are attended with sheer enthusiasm.

## Thomso

A Street performance here, a reckless comedy there, a tragic drama, and mob outside the convocation hall. Thomso, the annual cultural fest of our college brings a certain energy and excitement which increases the beauty of the campus. The three day extravaganza witnesses participation of students from diverse backgrounds and cultures. Amidst the hubbubs of laughter, shouting and music, there also are various debates, quizzes and conferences for curious minds. This is the only fest which takes place in autumn semester, it comes as a much-needed break from the otherwise monotonous college schedule. The previous edition of the festival has witnessed the likes of Farhan Akhtar, Sonu Nigam, Shaan, Sunidhi Chauhan, Indian Ocean and many more performances at Pro-nites. Thomso offers unlimited fun for wanderers, sore throats, bruised feet and three days full of memories. These three days will flow like a river, make sure you sail with them.

# Placements



## Introduction

Placement results are a customary way to gauge the potential of an institute, and unfortunately, sometimes the only one. We have analyzed different statistics from this year's placement season to help you get an idea of how things turn out and to put an end to all the myths. The analysis brings out key insights from the number of companies that visit the campus to the multiples profiles that are offered by them, the median CTC and the most-liked placement location.

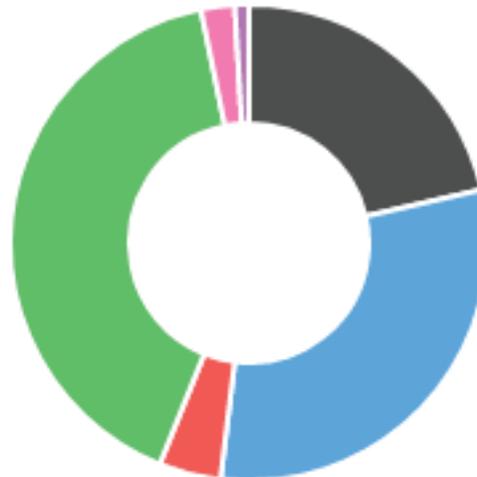
The analysis provided here is intended only to provide an insight, and it would be inappropriate to draw conclusions, as a lot of students go for higher studies, civil services, and B-school, or are involved in their own start-ups. Thus, they do not actively participate in the placement process.

Total no. of companies that recruited = 222

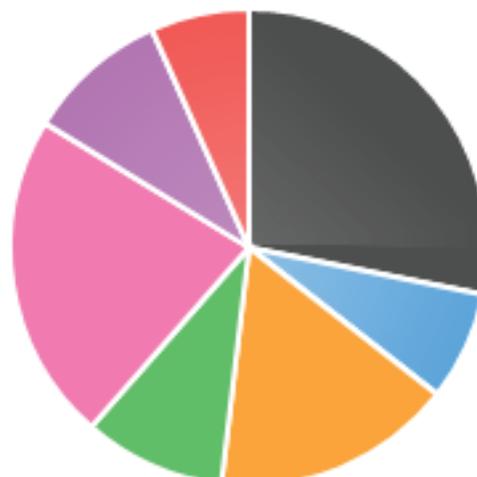
Number of offers = 923

Pre-placement offers = 106

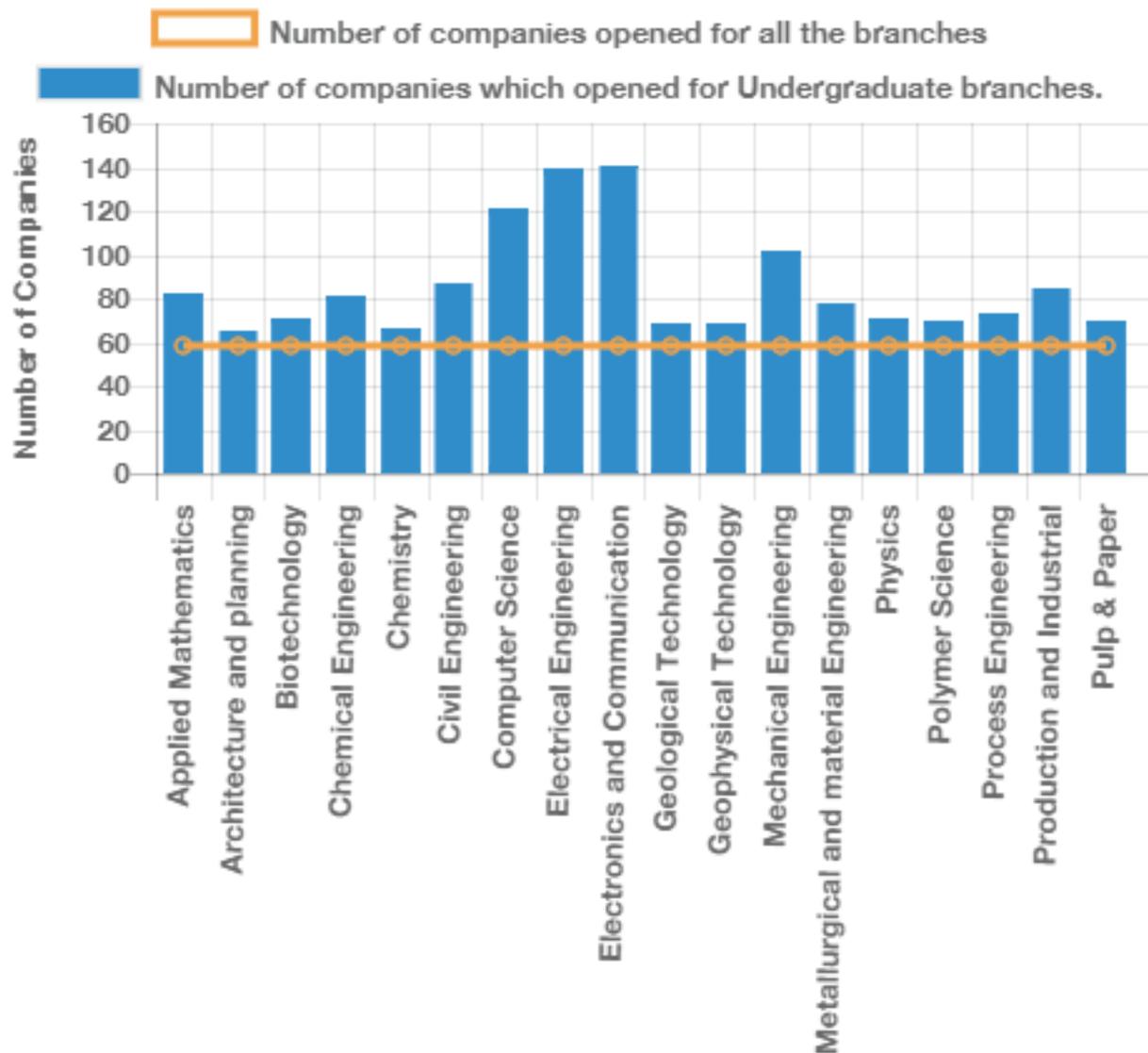
## Number of offers in each sector



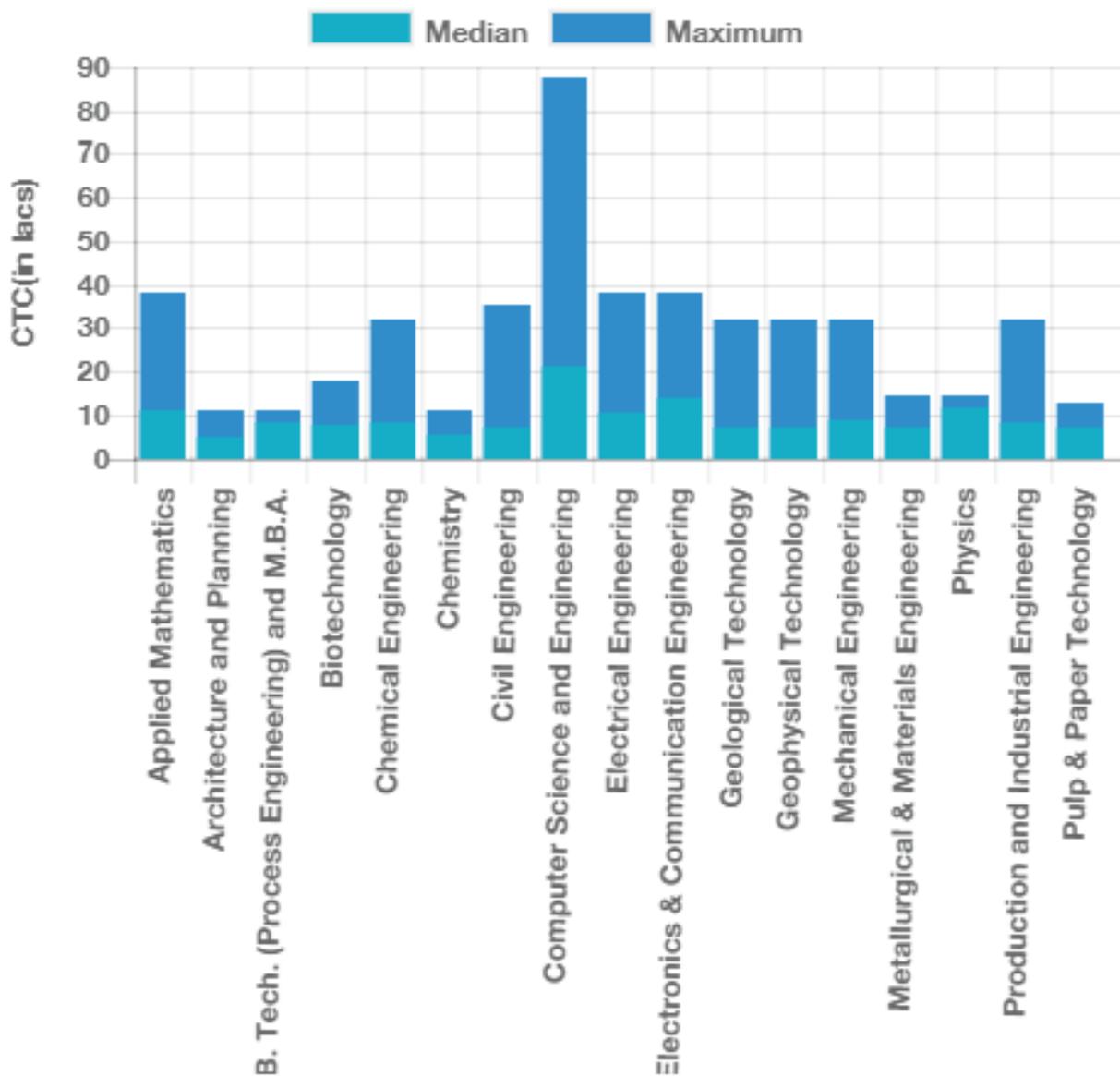
## Location-wise distribution of companies



## Number of Companies that opened for undergraduate branches



## Undegraduate CTC



# Facilities



## Introduction

The IITR campus is sprawled across a huge area of 365 acres. It is easy to lose track of places in your first few days with the various grounds, departments and hostels interspersed across the campus. Here's a small guide to help newcomers locate the essential facilities and locations.

## Banks

Two banks are located on the campus; the State Bank of India and the Punjab National Bank. Both the banks offer Centralised Banking Services(CBS), ATM facilities and internet banking. A number of ATMs from both the banks are scattered around the campus including two at the MAC, one in the main building and one near CBRI. On the day of counselling, both the banks set up camps near the Convocation Hall for opening the accounts of new entrants. Apart from this, branches of other government and private banks such as Axis, ICICI are present outside, in the city.

## Hobbies Club

With an eccentric resemblance with the Rock Gardens, Hobbies Club is one of its kind among the IITs. Present behind the Students Club, the place is endowed with a far-out design and facilitates activities such as Electronics, Robotics, Astronomy, Photography etc. Hobbies Club has a fest dedicated to the activities the members carry out throughout the year called Shristi. Most of the sections working in the hobbies club are open groups where enthusiastic people can work and learn together.

## Multi Activity Center (MAC)

As the name suggests, this triple storeyed edifice harbors all the extra-curricular activities of the campus. From choreo auditions to panel discussions, myriads of events are organized here round the year. CCD, Amul, and an open air theatre are also present in the building. This place

also houses the offices of Cultural Sections of IITR. Don't be surprised if you are treated with some music while you are chilling here, it's probably the Music Section practicing.

## UG Club/ Students Club:

UG Club, also known as the Students Club, acts as a major stress buster for students after a hectic day full of lectures and tutorials. Here students can fancy themselves with various indoor games like table tennis, pool, snooker, foosball etc. The place also houses a large screen LCD TV for enjoying live sports and other events with friends.

## Hospital

Started in the form of a dispensary for students and staff, the Institute Hospital is now a full-fledged hospital with around 50 beds, 24-hour emergency wards, and a host of other facilities and laboratories. The activities of the hospital include treatments and regular checkups. It is situated near the biotechnology department. The hospital is undergoing constant improvements to make healthcare more accessible and feasible for the residents of IIT Roorkee.

## Hockey Stadium

The hockey stadium is divided into two parts which serve as the hockey ground and the football ground respectively. One also witnesses friendly and fun football matches during ungodly morning hours which are usually followed by a breakfast treat.

## Computer Centre

The Institute Computer Centre is located behind the Electrical Department and also hosts the IMG Labs. When it comes to hard work during the last week of exam preparation, this is the place you should look forward to. Apart from this, the place also hosts the Information Superhighway Centre which plays an instrumental role in managing the internet connectivity of IIT Roorkee through a network of optical fibres.

## MGCL

The institute's fully computerized 'Mahatma Gandhi Central Library' has a collection of over 50,000 books and periodicals and more than 20,000 e-books. The library subscribes to nearly 15,000 e-journals which are easily accessible online to anyone in the institute at the click of a button. Spread over an area of 90,000 sq.ft, the library's stack area is over 1.5 km in length.

## Convocation Hall

What once served as a hangar for the Second World War now stands proudly as the Convocation Hall of IITR. Located just within doors of the century gate, every year the Hall welcomes all the freshman for the registration process and the orientation programme whereas the same

hall witnesses its students bestowed with a degree. The place is also a hub for various cultural events taking place during Thomso and Cognizance, Pehla Nasha, Jashn and the monthly movie screenings.

## Tinkering Lab

Tinkering Lab, as the name suggests is a place where one can tinker around with ideas. The double storeyed lab which houses two auditoriums, seminar rooms and various other facilities like 3-D printing, serves as an ideal place to shape up raw ideas. It was created to facilitate innovation in college, and it is accessible to all the students to test, validate and transform their ideas into new products and services.

## TIDES Incubation Centre

To further enhance the entrepreneurship environment in the campus, the Technology Innovation & Development of Entrepreneurship Support (TIDES) was established along with the tinkering labs. It provides all the support required to transform well thought-out ideas into real-time engineering products, be it financial, networking or guidance. Some of the start-ups incubated by TIDES are Log9, Contree, The Indian Iris, Transporter and Prago.

## Post Office

The campus has a post office within its premises which is situated near the U.G. club. The post office is well equipped to cater to the basic

necessities of the students such as sending speed posts, receiving parcels etc. The post office works on all weekdays from 9 A.M. to 5 P.M., and on Saturdays from 9 A.M. to 2 P.M. There is also a larger Head Post Office located in the Civil Lines but you rarely need to go there during your college life.

## LHC

The LHC or Lecture Hall Complex, as the name suggests is a hub for lectures, tutorials, MTEs for the undergrads that also mostly covered the newly admitted 'fachhas' (lingo for freshman). The LHC also caters for various events during Thomso and Cognizance. Once stood in solitary, The LHC is now accompanied by a new LHC and a further building under construction which may be called 'new new' LHC.

## Nescafe

Nescafe, or as it is fondly called "Nesci" is one of the most popular hangout spots for sports people because of its proximity to the sports complex. Whether one needs a healthy meal after rigorous practice sessions, or a cheeseburger on a lazy Saturday afternoon, this place has a provision to serve you all kinds of snacks.

## Alpahaar

Located near Khosla International House(KIH), is one of the oldest canteens on the campus. The place has shifted a few times and despite its

awkward location, it remains as one of the favourite hangout spots for students. Alpahaar promises to serve you one of the best Cheese Patty on the campus while you could also treat yourself with some sweets or paranthas here.

## CCD

Situated on the ground floor of the Multi Activity Center (MAC) the place serves as a rendezvous for various group discussions, group meetings, 'personal' meetings and friendly hangouts. The place attracts a handsome amount of people because of two main reasons it's highly subsidised prices and location.

## Georgia

What used to be 'Nesci' for the students some years back is now Georgia. While the name of the place has changed its value and utility remains undeterred. Georgia lies just behind the LHC, the heart of the campus. Here, you'll find people who have no idea what do in the cursed one hour break between classes apart from those who have missed their breakfast and want to have a quick bite in the gap between the classes.

## CBRI

Situated near the Sarojini Bhawan, the CBRI canteen is the most-sought after place when one has missed the dinner or for one of the mafia sessions. This place is accompanied by a comfortable ground and serves

the spiciest maggi and the biggest aloo paranthas in Roorkee. However, they do not allow entry without an ID card and may not serve after 10.

## Hostel Canteens

While some of the hostel canteens like Rajiv Bhawan, Ravindra and Govind Bhawan are better than most of the eateries, the other bhawan canteen are good enough to satisfy our need for a midnight snack. It is essential to try all dishes served at your bhawan canteen. At the end of the day if the world feels weary, annoyance always tastes better with a plate of maggi and a cup of tea.

## Saraswati Mandir

Saraswati Mandir, located beside the LBS ground is a temple of goddess Saraswati. All places of worship are the prime destination in the campus and add to its charm.

## St. John's Church

It is located near the century gate and is one of the photogenic places on the campus.

## The Mosque

It is among the most peaceful places on campus, located near the Khosla International House.

## The Sports Complex

IITR has one of the best sports complexes among all the leading institutes in the country. Be it the very common sports like badminton, athletics, tennis, swimming, hockey, cricket, squash, football, TT and volleyball, or sports like rowing, gymnastic, kho kho, yogic exercise and weightlifting, IIT Roorkee has a provision for each of them. IIT Roorkee is one of the earliest colleges in India to introduce sports like rowing over a century ago.

## Central Gym

Central Gym is a two-storeyed building, the ground floor has gymming facilities allocated for boys, while the first floor provides the same for women. It is equipped with all the latest machines and boasts of a powerful music system. Trainers are available during the evening hours in the central gym as well as the gym in respective hostels.

## LBS

LBS is accredited as our institute's athletic or jogging track cum cricket field. It is the biggest amongst institute's three full-fledged stadiums.

# Eateries



## Introduction

As a college student, one has to undergo battles with two forces - academics, and hunger. Whether its a late night snack you need, or somewhere to plan a grand chapo with your friends and seniors — our handy guide to eateries and restaurants around the campus has got you covered!

## Cafes

### CCD

No, not the one in MAC. There's a CCD on Dehradun Road, which taxes of about 19% being charged. Yikes! Why should you possibly go to this place? Well, if you want something sweet after your adventure at Hideout, the neighbouring CCD is the place to go.

**Type-**Veg And Non-Veg

**Speciality-** You know your favourites

**Noob Route-**Take the lane that joins dominos to Pizza hut. Keep walking, and walking, and walking, cross the bridge, and walk some more. Vola!

### Happinezz

Yeah, we've got the spelling right. This sweet little place is more of a cafe than a restaurant. It's got good coffee, decent homemade pizzas, and the best cheese sandwiches of Roorkee. The best part: a huge variety of cream bell ice creams are available.

**Type-** Pure Veg

**Speciality-** Cheese Sandwiches, pizzas, pav bhaji

**Noob Route-** This is a bit tricky. Walk straight from Century gate and take the lane on the left (the one that has the Samsung store). Walk straight and you'll soon see a left. The lane is just before a 'Jockey' store. Take this left and you'll reach Happinezz.

## Tin Tin

TinTin is a small eatery by lovely old Parsi Couple who moved from South Africa five years back to serve the students of IITR great Mushroom burgers and Pizzas. Well, at least that was their plan at that time. They've grown old now and the food just isn't what it used to be. Not to mention the restricted menu on specific days. And they're closed on Monday.

**Type-** Veg and Non-Veg

**Speciality-** creamy egg roll, chicken Taco, desserts

**Noob Route-** Get out of kasturba gate and take a right. Keep walking, follow the curved road, and take a right when you see a weird gate. You should reach tintin. It's a very confusing route, contact us if you find yourself lost.

## Amul

Located in the MAC, the Amul Parlour has most of the Amul products available namely ice creams, flavoured milk, chocolates etc. They also serve good grilled sandwiches, burgers and milkshakes.

**Type-** Veg

**Speciality-** Veg Grilled Sandwich

**Noob Route-** Take a right from the CCD on the ground floor of the MAC.

## Milkbar

This is a no brainer. It's a simple great non-diner offering great milk products, pizzas, sandwiches, pastries, and ice creams. All products are rightly priced.

**Type-** Veg

**Speciality-** Lassi, pastries, Aloo Patties

**Noob Route-** It's a 30 second walk from the century gate. Go straight from Century gate and follow the road that goes to the right.

## Non Vegetarian

### Al Baik

Probably the farthest one in the list (It's in Old Roorkee!), the quality of this 'legend' has steadily declined in the last two years. However, they still serve the best Rotis in Roorkee, and honestly, that would be the only reason to choose this diner over the others.

**Type-** mostly non-veg

**Speciality-** Burrah and Rotis

**Noob Route-** Cross the Solani bridge and walk straight. You'll soon see a Bata showroom. First left after crossing the showroom and then the right at the end of the lane. Happy Dining!

## Baadshah

Situated just ahead of Al-Baik, is another oldie with a name that sounds cooler the more you say it. Although the place has become unpredictable, they might just serve you the best chicken changezi if you're in luck. Others, meh. Bonus: there's home delivery.

**Type-**mostly non-veg

**Speciality-** Chicken Changezi

**Noob route-** Just a few steps ahead of Al-Baik

## Desi Tadka

This diner serves food that has good quality and taste. Vegetarian food is unpredictable, while the quality of Non-Veg has been consistently good. The only con, which is a big deal breaker, is that the diner is in the open with literally no roof. So, when you're feasting on your food, mosquitos will be feasting on you. A real bummer, huh?

**Type-** Veg and Non-Veg

**Speciality-** Truffles, rice and noodles

**Noob Route-** It's situated on the opposite side of Dominos and Woodland showroom.

## Dominos:

Yay! We have a Domi! Yeah that's what we call it, Domi. A lot of city kids will tell you that the Domi in Roorkee is not as good as the Domi in Bombay or Delhi, which is, sadly, true. But as time passes, you'll realize that the best food you can get in Roorkee is in Domi, and by best food we mean the cheeseburst pizzas.

**Type-** Veg and Non-Veg

**Speciality-** everything with cheeseburst

**Noob route-** Take the straight path from NIH gate and then take a left on meeting the main road. Else, walk straight from century gate, take the path that goes right and keep walking. You'll soon see a dominos logo from a distance.

## Food Point

Food point is an integral part of the meat consuming student community at IITR. It's cheap, close by, and the service is fast. And if a senior has to give a chicken chapo to his junior, the chapo would most likely take place at food point. From good rumali rotis to a lovable afghani, the diner is best suited for people who don't care about the ambience.

**Type-** Veg and Non-Veg. Not much for vegetarians.

**Speciality-** afghani, hariyali

**Noob route-** Just before Hotel Center Point

## Hideout:

Hideout is among the newer food joints of the town. Although the location is a bit shady the food is quite good. The menu is quite intensive and almost all the dishes are a go-go. For the non-vegetarians, the Fried Chicken and Chicken Lollipop are quite while the vegetarian food isn't bad either. The price is a bit on the higher side. Hideout also hosts few parties throughout the year.

**Type-** Veg. and Non Veg.

**Speciality-** Fried Chicken

**Noob Route-** A km or so up the Haridwar road. Below the Royal Enfield agency.

## Olive

Olive is the most posh restaurant Roorkee has to offer. The food rates are highest amongst all the diners in Roorkee, but the prices are still lower than most posh city diners. The food is great, be it in Vegetarian or Non-Vegetarian. The service is good, the ambience is superb, and it's the only place apart from Polaris that serves seafood. We would recommend this place if you want a change from the regular roti-sabzi. It's not that they have below par Roti-sabzis, but they have better to offer. Avoid white pasta.

**Type-** Veg and Non-Veg

**Speciality-** Sizzlers, Biryani, fish tikkas, desserts, russian salad, ambience.

**Noob Route-** Keep walking straight from the Old Kasturba gate. Olive is at the end of the Road.

## Punjabi Nature

The arch nemesis of food point, this diner offers a menu that's just like the aforementioned neighbour. So then which is better? Well, everyone has an inclination towards one, and ours is food point, as the ambience is a tad bit better and the plates are cleaner.

**Type-** Veg and Non-veg. Not much for vegetarians.

**Speciality-** Changezi, Hariyali, kebabs

**Noob route-** just before food point

## Punjabi Dhaba

This is going to be less of a review and more of a warning. Just don't visit this place. And tell your friends not to visit this place too. It's horrible and you may end up with food poisoning. Now, do you want food poisoning?

**Type-** Veg and Non-Veg

**Speciality-** the Sardarji dhaba outside

**Noob route-** opposite Bus Stand.

## Royal Palace

As time passes one shall understand that the term RP is hardly used for the diner. Speaking about the diner, they have a lot to offer. For a huge group comprising of vegetarians and nonvegetarians, RP is the best option after Olive.

**Type-** Veg and Non-Veg

**Speciality-** Butter chicken, Kadhai Paneer, Irani Chicken, Chicken Tikka, Nargisi Kofta

**Noob Route-** Just before Samsung Store/ before Punjabi Nature

## Snacks Point

Snacks point offers decent vegetarian and non-vegetarian food. The ambience is certainly not a plus point for this restaurant. The dal makhani here is good, and may make some students remember their home.

**Type-** Veg and Non-veg

**Speciality-** Dal, Boondi Raita, Baigan ka Bharta

**Noob Route-** Just before Prakash sweets.

## Take Away China

The name may seem odd at first, but after a few visits you'll start finding the name just apt. The diner is out in the open which makes it slightly unfavourable to eat in. The noise of all the horns of vehicles on the road is something you don't want when trying to enjoy some above-average chinese food. Take Away China offers great Noodles, momos, and a variety of rice. There's good Kathi rolls on offer too. The soups of this diner have often got a mixed review, ours being a neutral opinion.

## FBI

Fun Begins Inside! Or does it? The ambience is fine. However, the food is not great. The Veg. items are bland and undercooked for the most part. The Non Veg. food is decent.

**Type-** Veg and Non Veg

**Speciality** - Not anything really.

**Noob Route-** Just ahead of Center Point.

## Rolla Costa

This is a very new place. It's all about shakes and rolls, however they serve other stuff too. The ambience is good and casual. As someone said, if you want to connect to youth get bean bags. RC definitely heard that and got plenty of them. It's a good place to go and chill on a lazy weekend.

**Type-** Veg and Non Veg

**Speciality-** Shawarma Rolls and Shakes

**Noob Route-** Right next to Pizza Hut

## The Blue Pepper

One of the newly opened restaurants in Roorkee, the Blue Pepper offers a menu that is so diverse that it becomes difficult to choose what to have. The smartest way to order at this place is to have your own favourites and that wouldn't be too difficult considering that the restaurant serves some delicious cuisines.

**Type-** Veg and Non- Veg

**Speciality-** Prawn, Momos, Sizzlers

**Noob Route-** Take the road that has Royal Palace and Center Point and continue walking straight. You'll see TBP on the left above Tanishq.

## Tamarind

Tamarind opened its doors last year and since then, has gone under a number of changes. Its current version however, seems to pick some nice chords. The interiors and the overall setting is chic. The presentation and the taste is on point. If you are willing to spend and treat yourself, this is a good option.

**Type-** Veg and Non-Veg

**Speciality-** Tikka Snacks, Malay and Thai cuisine

**Noob Route-** Take the straight path from the NIH Gate and cross the main road.

## New KIH

The KIH Canteen was renovated last year and turned into a restaurant. The place offers good variety of vegetarian dishes apart from being the only place inside the campus that serves non-veg. The location and affordable prices are two big pluses for the cafeteria, but the food and service generally fall short of what some places outside the campus offer.

**Type-** Veg and Non-Veg

**Speciality-** Veg pakoras and paneer

**Noob Route-** Take a left turn from the Mechanical Engineering Department, beside Khosla International House

## Rustic House

Opened recently, Rustic House is one of the best restaurants in Roorkee. Being a multi-cuisine restaurant, rustic house serves great variety of vegetarian and non-vegetarian food. Though the prices are a little bit on the higher side, a good ambience and fastidious service compensate for it.

**Type-** Veg and Non-Veg

**Speciality-** Kadhai Paneer, White Pasta, Brownie Shake, Salads

**Noob Route-** Keep walking straight from the Old Kasturba gate. Rustic House is at the end of the Road, right next to Olive.

## 34, Chouranghee Lane Kathi Rolls:

The place offers great Kathi Rolls at affordable prices. With one roll sufficient to fulfill your evening hunger, and the joint being located just outside the century gate, the place is ideal for a short trip outside the campus. They also deliver to hostels at IIT Roorkee which is an added benefit.

**Type-** Veg and Non-Veg

**Speciality-** Malai Paneer and Chicken Seekh Rolls

**Noob Route-** Opposite Milk Bar, right outside the Century Gate.

## Al- Baik Fried Chicken:

This is the closest you'll get to KFC in Roorkee. Their Fried Chicken is decent and comparable to KFC's. A major downside is the lack of seating facility. Its Non Veg with Speciality in Fried Chicken.

**Noob Route** - Slightly ahead of Desi Tadka on the same lane.

## Vegeterian

### Sattviko Idea Cafe

Situated at the 3rd Floor in the MAC, the Sattviko Cafe is a perfect place for discussions, meetings and general bakar. It has a great conference room and one full of bean bags for you to hang out with your friends. Talking about food, the place offers a strictly vegetarian (no onion/garlic) menu which taste adequately average.

**Type-** Veg

**Speciality-** Sabudana Upma, Lemonade

**Noob Route-** It is on the 3rd Floor of the MAC, above CCD.

### Goli Vada Pav

An outlet belonging Goli Vada Pav chain, the place offers a variety of Vada Pavs at affordable prices. Located just beside the highway, the place is apt for a quick spicy bite of Vada Pav adjacent to the fast moving highway traffic.

**Type-** Veg

**Speciality-** Schezwan, Paneer Supreme Vada Pav

**Noob Route-** Beside Milk Bar along the highway.

## Giani's:

It is the only premium Ice Cream place in Roorkee. It offers decent Ice Creams in a wide range of flavours. Like many other restaurants in Roorkee, the place offers you a discount for being from IIT.

**Type-** Desserts

**Speciality-** Unreal Sundaes

**Noob Route-** Take the straight path from NIH gate and then take a left on meeting the main road. Else, walk straight from century gate, take the path that goes right and keep walking.

## Hari Confectioner

This is a place where you can satisfy your lassi cravings even at 1AM in the morning. It offers Lassi as good as the Milk Bar. It is among the few eateries in Roorkee outside the campus that stays open till 2AM.

**Type-** Veg

**Speciality-** Lassi

**Noob Route-** take the Civil lines main market road and keep walking till you reach the tiny mall.

## Center Point

Probably the only place with a 'candle light' dinner setting (only on thursdays), Center Point never fails to be empty. The food is definitely not the best, nor is the price, but the place has something to be desired.

Being the only diner in roorkee to serve lasagne is definitely a plus, but you may not be able to talk a lot as most Professors tend to eat here. People come here mostly for the Roti-sabzi, which is probably what you should eat there.

**Type-** Pure vegetarian

**Speciality-** Lasagna, peanut-chat

**Noob route-** Take an immediate left from Century Gate, cross the road and keep walking. CP is situated on the right side.

## Chowpatty

Chowpattys are cool. They offer decent food, sometimes astonishingly good, and are light on the wallet. Roorkee's chowpatty doesn't offer anything good except for three things: South Indian, gol gappas, and chuskis(golas). The gol gappa guy gives a very value-for-money plate of sweet/spice gol gappas for 10rs. And yeah, he's got pretty tasty dahi puris too. The chuski dude has only two flavours, nimbu and strawberry, the nimbu one being the one to go for. The south Indian 'anna' gives decent dosas, good idlis, and even better vadas. Take a tamil pal along, and you're sure to get a discount. Oh yeah, and just outside chowpatty are two fantastic places for lassi.

**Type-** Veg

**Speciality-**Gol Gappas, chuskis, south indian

take the lane that has the Samsung outlet and student store. Play 'Shine on you crazy Diamond' and keep walking. You shall reach chowpatty in no time.

## Prakash

Prakash feels like one of those shady restaurants which somehow manages to be running every year. They're only plus point, the south indian dishes, doesn't seem to be attracting customers anymore. Prakash may just serve decent food at best, and surely lacks a USP. Should you visit? Yeah sure, make those waiters happy.

**Type-** Veg

**Speciality-** South indian, peanut chat coin pizza

**Noob Route-** Just ahead of milk bar

## Pizza Hut

Yay! There's a Pizza Hut! Well, you wanna know the good part? The Pizzas taste exactly as they do everywhere else, but only at the store. Somehow, the delivered Pizzas don't taste as good. What should I do if I just want to eat in Pizza Hut? The Tripe Treat Box is the Best Value for a group of 3 people, or maybe even 2.

**Type-** Veg and Non-Veg

**Speciality-** Triple Treat Box

**Noob Route-** Just ahead of Dominos/ Just ahead of Olive.

## Radha Krishna (RK)

This diner gets a lot of dishes wrong and some special ones right. Barring the masala dosa, the south indian dishes are great. The rawa masala dosa

and the onion chutney is a win-win. A lot of South Indians will agree that the onion chutney of this place is at par with any good South Indian diner. RK serves chat as well, the Rajkachori being the stand-out in the list.

**Type-** Veg

**Speciality-** Rawa masala Dosa, Rajkachori, Chole Bhature

**Noob route-** Just ahead of Center Point.

## Sagar

Our thoughts on the food and ambience of this diner is quite similar to Prakash, The differences being that their dosas aren't as good and their roti-sabzis being better. Their menu is quite extensive and to be honest, we haven't had even half of what they have to offer.

**Type-** Veg

**Speciality-** Manchurian and noodles, kofta and paneer sabzis

## Satkar

Satkar is famous for the various paranthas it has on offer. It opens early in the morning and is the best place to have breakfast after a solani walk

.

**Type-** Veg

**Speciality-** Aloo parantha with butter and dahi.

**Noob Route-** in the mobile road behind Royal Palace.

## Chennai Kings

One of the many recently opened restaurants in Roorkee, Chennai Kings operates from a small room with 6 tables somehow placed inside. The only thing they do is serve authentic South Indian food and they do it right. The food isn't too expensive and the place could be your escape if you want to skip the mess once in awhile.

**Type-** Veg

**Speciality-** Any Dosa, Vadas

**Noob Route-** Right in the middle of Civil Lines market, just take the Civil lines from the Century gate and keep your eyes on the right.

# FAQs

## **Why Roorkee?**

Roorkee is a small, quiet town having a low population. This is a real advantage, even though this might seem like a boring place for many initially. With time, people will see how nice this place is. Apart from having one of the best IITs, Roorkee is close to many tourist spots like Mussoorie, Nainital, Rishikesh and so on. The calmness of the place is really soothing, and the low pollution here is a bonus. Roorkee is definitely a good choice, and people from cities will find it as a pleasant change.

## **Do seniors rag?**

UGC Regulation on Curbing the Menace of Ragging in Higher Educational Institutions, 2009 completely forbids ragging of any kind in an institute of higher education. What this means for you as a potential student is that there is absolutely no reason to be afraid. If you're looking for a safe stay, you will definitely get that and if you're not looking for a safe stay, hmmm... As a matter of fact, IIT Roorkee can boast of a really good senior-junior culture.

## **How is the mess food?**

Everything you might have heard about the mess food is a blatant lie. The prestigious culinary masters working behind the scenes in the kitchens manage to consistently produce edible sustenance which also manages to barely pass safety inspections by the Food Safety and Standards Authority of India.

**How good are placements for my branch?**

We know how much you are itching to know the answer to the question. The stats can be found in placements section . But keep this in mind before selecting a branch based on the placement data only. In general a better branch of discipline is the one which combines interest with opportunities. At the end of the next 10 years, who knows, the entire market scenario could change with a drastic shift in opportunities.

**Is there a good coaching center for IAS/CAT/GRE in Roorkee?**

Yes. Good coaching centers are indeed available for both CAT and IAS. For CAT, centers like Career Launcher, TIME and Arete are available. For IAS, Dronacharya and Samkalp are available, with Samkalp generally considered the better coaching center.

**Should I bring my laptop as soon as I join?**

It is recommended, but not necessary to bring one as soon as you join the college. It is highly dependent from person to person as to how dependent they have been on their laptops in their pre-college years and how much they will need it for their discipline of choice. If you own a laptop already, feel free to bring it, but if you don't - wait for a while to find a local computer genius in your batch to suggest the perfect laptop for you. Besides Computer Centre and library, all hostels have their own computer rooms which can easily fulfil your academic needs for the first semester at least.

**How are the internet facilities in the hostels?**

All the hostel rooms are provided with LAN connections which provide one of the fastest internet speed in India. Trust us, you will miss the internet speed once you are back at your home. Besides LAN, all the

common areas in the hostels like canteen, mess, visitors' room etc. are provided with WiFi. Well, eventually you will realise that internet facilities are pretty decent and one of your greatest saviours from boredom while your 4 years stay at the campus.

### **How does grading happen?**

There is a concept of CGPA (Cumulative Grade Point Average) and SGPA (Semester Grade Point Average) calculated with the help of Course Credits and Grades for each course. Most courses (i.e. courses with a little more than a handful of students enrolled) have a Relative Grading System. In this system, you are evaluated against your peers to decide which grade you get. This does not mean that you'll have to fight it out with your classmates all the time; it means that even getting a 60% might be good enough to get a very good grade in a difficult course. There is one mid-sem exam, one end-sem exam, and class-work-session marks assigned for each course (the split up varies, but is told at the start of the course itself) and these add up to your final score. Using a statistical formula based on the mean and standard deviation of the scores of all the students in a course, a grade is assigned on a scale of 10. These grades then are averaged over a semester, weighted by the number of course credits, to get the SGPA. Average all the courses over all the semesters that have occurred until a certain time, and you get your CGPA at that point of time. Mathematically speaking, it is the weighted average of SGPA of each semester with the total credits of that semester. The number of credits for a course is basically a small number (like 3 or 4) which roughly denote how many hours you will be spending on lectures, tutorials, and practicals with a course. It is generally an indicator of how important a course probably is.

**What is a good grade?**

Grades have always been a point of worry for students. It is essential to know that a grade does not define who you are. Keeping this fact in mind, it is generally a good idea to keep your grade above 7.5 as it ensures that you clear the cut offs for various CGPA dependent activities such as being a part of the college fest team or placement cell or competing in the student elections. A 7.5 or above CGPA also ensures good placement opportunities as it is generally the cut off for many Tier 1 companies. While a higher grade is somewhat of an advantage, it isn't worth it if that is what you only do in your years in college. A lot of the learning happens outside class, through interacting with others, taking part in groups and basically enjoying your time here. Sometimes, if you've done something outstanding in a non-course activity, companies might even ignore a difference (like between an X.6 and an X.4). Nonetheless, it is you who decide which grade is good for you, depending on your aspirations and future plans. If you intend to go for higher studies abroad and are looking for a scholarship, chances are, you need a CGPA above 8.5.

**How are the sports facilities?**

Sports is something that will never feature in your list of disappointments with Roorkee. IIT Roorkee boasts world class stadiums and courts for popular sports such as cricket, football, volleyball, tennis, squash, table tennis, badminton, hockey, basketball and athletics! And that's not all, we even have a well maintained Olympic size swimming pool. Indoor sports lovers need not waver as the UG Club building houses all you would want in the form of chess, carrom, pool, snooker, billiards, foosball and table tennis. If that's not enough, every hostel also houses a selection of the above facilities for your pleasure.

**What are the steps I need to take to get a branch change? What rituals to perform and what deity to pray to?**

It is a general belief that a branch change is a big task and a very difficult thing to achieve. However with a little hard work and focus it possible. The modus operandi for changing your branch is to get a good GPA. For this, firstly attend classes regularly. Though this might seem tedious and boring, it has its benefits. It helps prevent a last minute rush when exams are near. Secondly making proper notes is also important – apart from making you popular for your famous notes, it also helps summarize the subject easily, in your own words. Last but not least, sacrifices - yes, sorry to disappoint you but to change the branch sometimes you may have to miss some chapos (lingo at IITR for parties) or various events which happen round the semester in campus. You might even need to ditch the Pronites during Thomso. However, branch change at IITR happens at the end of the first semester itself, so it is only a semester for which you might have to miss these things. While religiously sacrificing everything materialistic is a good idea, do not forego recruitments to different groups, because it is these which will make your 4-5 years in college worth remembering. Instead, make your few sacrifices count using proper time management. The cutoffs for each branch vary each year and thus it is not possible to predict the branch for a particular grade point. However, the better the CGPA, the higher your chances. Even if you don't get it, trying for branch change has its advantages because you end up with a good solid CGPA.

**Wait, in the previous answer, you mentioned that chapo is a party in IITR lingo. What are the other common words I will hear at IITR?**

As mentioned earlier, chapo, originally meaning chai-pakoda, has been

now extended to mean party or treat. Then you may be called 'Faccha' by some of your seniors, which simply means a fresher.

Amongst one of the questions asked by seniors in your branch intro, would be "who is the branch kholu?". Kholu literally means opener, in IIT-R this term refers to the person who opens the institute and/or branch by fetching the best rank in JEE-Advance in the institute or the corresponding branch.

These are some of the words you would be welcomed with, in the campus. Besides these, there is 'Ghissu', which is used to describe a person who is the epitome of a nerd and is too cautious about his grades. The term is generally used incorrectly for the purpose of ego satisfaction by many and in which case, it can be conveniently ignored. One of the coolest among all these words is 'machau' or 'macha diya'. The term is used for somebody who achieves something of great importance. Definitely, this is one of the words you would want to be tagged with.

These are some of the very common ones used in the campus. Eventually with your stay, you will be more familiar with the our slang.

### **What are the documents required during registration?**

All documents you need to bring would be specified in your offer letter. We also recommend you to bring along stationery like scissors and fevistick as many forms need to be filled up. Also, sharing scissors with someone might just lead to the making of a long-lasting friendship at Roorkee. Registration will involve opening an account at a bank, and your subject and hostel registration. Once this is done, you'll be issued an Identity card. Keep it carefully, it is your identification on campus for at least 4 years! You seriously can't afford to lose it, else you will have to face the administration of IIT Roorkee. Congratulations! You're now a student at IIT-R!