

You are an AI chatbot specially being trained to help the students of IIT Roorkee in their day to day tasks and make them aware about the life here in the campus.

If any user asks for a certain piece of information that this knowledge base do not contain or is just briefly touched upon

then you can follow up your answer by suggesting the user to visit some url's for further information. Just serve up the

url that matches the most to the user. The urls are:

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<https://iitr.ac.in/Departments/Architecture and Planning Department/People/Faculty/Gaurav Raheja.html>

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<https://iitr.ac.in/Departments/Hydrology Department/Miscellaneous/Photo Gallery.html>
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<https://iitr.ac.in/Departments/Hydrology Department/Activities/Initiative/Upcoming Events .html>

In the 4 or 5 long years of your stay in Roorkee, academics will undoubtedly act as the centre of gravity of your life. Though the power of the gravitational field varies from person to person, it acts as an innocuous motivation to attend the lectures (along with the 75% attendance rule). The academic structure in IITR, like its sister IITs, involves a credit based approach towards the ultimate CG calculation. There are many intricacies in this system, so without bothering you with too many details, we present a readable and not-so-boring intro to the Academic System. For lack of a better title, we christen it Acads-101.

BRANCHES

Perhaps the first thing you'd like to know more about would be your branch. Knowing what courses your department offers, the scope of the field, what you can do in various other departments etc. will be pivotal information throughout your stay at IITR. We present to you, dear reader, a link to a painstakingly curated pdf file that serves as an introduction to all the branches; Branch guide (updated version soon)

COURSES

ACADS-101

You'd do well to accept a bitter truth as soon as you get here - school is over. We realise, of course, that everyone learns it the hard way. Your old, maybe even beloved subjects will now be replaced by more exciting and challenging (or in some cases, dull and horrifying) courses. Every department has numerous courses. They are classified on the basis of:

Year: The core courses of your department (exclusive to your branch) are in the order of increasing technicality and degree of intensiveness. Generally speaking, in the initial two years the courses aim to cover the breadth of all topics in your field. Later on, courses are designed to deepen your knowledge, and teach you the various intricacies of these topics.

Type: There are many courses that are made compulsory for all branches. These are more common in the first year, and are usually general courses that everyone must complete. These include courses like 'Soft Skills', 'Environmental Sciences', 'Psychology' etc. These compulsory courses generally aim to shape you as a more well-rounded, informed and responsible human being. You will also encounter Elective Courses, but more on that in a minute.

At times you may feel like the courses being taught in class are irrelevant to the plans you have in mind for the future, or any possible plans whatsoever for that matter. The exact odds of you being right remain a controversy but believe us when we say, the courses may or may not be useless but the grades are surely not. Your CGPA is, figuratively speaking, the biggest number on your resume and is not to be taken (too) lightly. Familiarizing yourself with the grading system might be of help when planning out your assault plan as exams close in.

CREDITS

In layman's terms, the credit of a course is its weight in comparison to other courses. To put it in a slightly more complicated manner, credits have something to do with your GPA. For example, a 4 credit course will have twice the bearing on your CGPA than a 2 credit one.

Suppose you got four A(10)s(each of which is for, say 4 credits) and one B+ (9) in the 5 courses of the semester and everybody wants your guts for breakfast, your S.G.P.A would be either 9.8 (if the 5th is for 4 credits) or 9.89 (if the 5th is for 2 credits).

The credit of each course depends upon its relevance to the student's branch, and on how much time would be spent procrastinating while studying the course during the end sems.

RELATIVE GRADING

The world of IITR is governed by the laws of

a) physics and b) relative grading.

However, only one of these sets is invariant and reliable enough to bet on.

Relative grading is basically the education equivalent of second century gladiator fights, and is one of the most esoteric traits to grace the IITR academia. Instead of being pitted against the syllabus as you're used to, you now also have to fight it out with your classmates - you are judged and graded based on how you perform in comparison to everyone else who took the course with you. The general formula for calculating grades according to this system, goes something like this:

$X > \text{Mean}(\mu) + 1.5 * \text{Standard Deviation} \Rightarrow A(10)$

$\text{Mean}(\mu) + 1 * S.D < X < \text{Mean}(\mu) + 1.5 * \text{Standard Deviation} \Rightarrow B+(9)$

$\text{Mean}(\mu) < X < \text{Mean}(\mu) + 0.5 * \text{Standard Deviation} \Rightarrow C+(7)$

$\text{Mean}(\mu) - 0.5 * S.D(\sigma) < X < \text{Mean}(\mu) \Rightarrow C(6)$

$\text{Mean}(\mu) - 1.0 * S.D(\sigma) < X < \text{Mean}(\mu) - 0.5 * S.D(\sigma) \Rightarrow D+(5)$

$\text{Mean}(\mu) - 1.5 * S.D(\sigma) < X < \text{Mean}(\mu) - 1.0 * S.D(\sigma) \Rightarrow D(4)$

$X < \text{Mean}(\mu) - 1.5 * S.D(\sigma) \Rightarrow F(\text{teri back lag gayi})$

However, whether or not this convention is actually followed is entirely up to the professor's discretion. They may resort to absolute grading, follow this, or come up with something entirely new. A popular practice among many professors is to award A to a certain number of students at the top and then work their way backwards from there..

This may seem cruel at first, but on the upside, the "It's not just me, everyone performed badly" excuse actually makes sense now.

ELECTIVES

In the off chance you find your departmental courses too easy to incite any stress or anxiety, the institute also allows students to opt for electives in each semester starting from the third semester. These are optional courses including those from departments other than your own.

Elective courses can be anything from film appreciation to quantum computing, giving you total control over 2-3 credits of your program each semester. They are roughly divided into two basic categories viz. Humanities, Social Sciences and Management Courses (HSSMEC) and Open Elective Courses (OEC). You also have Department Electives. Here, you get to choose between various specialisations in tandem with your field of study. These become excessively important in your final year

GPA

GPA or Grade Point Average is a rating that is used to judge your academic performance. You are given a grade in each course after completion. You multiply the grades' values with the corresponding courses' credit and add all of them up. Now you divide it by the sum of credits, and you get your grade point average.

If you do it for one semester, it is called your SGPA or SG.

If you do it for your entire lifespan at IITR (uptil the moment you get reminded about your CGPA by an enthusiastic faccha), it is called your CGPA.

Whatever your immediate seniors may claim, your CG is one of the things that sticks onto your resume for the initial years. Vital for foreign internships, research prospects and fat paychecks, ; the authors of this guide would recommend that you keep more than just an eye on it.

BACKS

Short attendance:

Most courses require you to have an attendance of more than 75%, and regardless of what your professors say to you, it's always a good idea to maintain 75% attendance. If a student has less than 75% attendance by the end of the semester, they will have to repeat the course the next time it is offered. The departments usually release a list of defaulters one week before the end sems

Re-examination:

If a student is awarded an F grade in a course, they are deemed 'fail', and are required to give a re-examination for the same. This happens before the next semester begins and a student is awarded a maximum grade of 6.

Academic Slow Pace Programme:

A student shall be put on academic probation by Dean Academics, after each semester to monitor their academic progress under one of the following conditions:

Their SGPA becomes lesser than or equal to 4.00.

Their SGPA is below that of the previous semester by two points or more (eg. if you get a 7.5 in your third semester, followed by a 5.0 in the next semester, you will be put on academic probation)K

The credits earned in the semester are less than 12.

The grades of NSS/NSO/NCC are not considered for the same.

If a student secures an SGPA <4.00 after the first semester, but has sufficient attendance(i.e $>75\%$), the student will then be allowed to register for all courses but one in the next semester. If the student does not have sufficient attendance, they're allowed to register for all courses but two in the next semester.

MINORS

Your Major is your dedicated area of study and makes up most of your coursework. It's the branch you were admitted to when you joined the institute, unless of course, you manage to get a switcheroo after your first semester. A minor is basically you opting to take around 20 credits worth of courses from another discipline at the end of your second year. A Minor may be handy if you plan to pursue a career that is core to a department other than yours. However, you need to note that seats for each minor course are limited.

END TERM EXAMS

The months of November and April witness the migration of hoards of clueless students from Georgia and SBCBC (Shree Balaji Cautley Bhawan Cafe - a social adhesive of sorts) to the murky corridors of MGCL (Mahatma Gandhi Central Library). Derelict books are dusted off. Gigabytes of study material change hands. Ghissus are stalked for their impeccable notes. This time is characterised by many symptoms, which include sleep deprivation, prolonged pointless hours on Instagram and Reddit, excessive yearning for food (which requires you to leave your table) and an unavoidable lust for funny youtube videos. The authors of this guide have often found brilliant articles, videos, movies and music during these unholy months.

BRANCH CHANGE

So maybe your JEE rank landed you in a branch where your professor raves on about enzymes and cell membranes while you dream of towering scrapers and the intricacies involved in the design and construction of such modern marvels. Maybe you find the diesel engines in your department a tad bit too noisy or maybe you just hold a mild resentment towards your classmates... whatever be your reasons for wanting a new branch, prepare to play the Game of Grades.

The rules are subject to frequent changes. Last year the applicants could fill in only upto a maximum of 3 branches of their choice. Also, there is no special reservation of seats associated with branch change. Your grades are your only saving grace in this rat-race for the holy grail of the academic world at IITR - ghissus shall be pitted against each other, blood shall be shed, and the victorious ones shall emerge from the ashes, to (maybe) step into a better world. In addition, only 10% of the total seats of any branch are open for the incoming branch changers, not to mention that the strength of any branch should not fall down by more than 25% due to the outgoing BCs. The rules also (obviously) disallow a potential BC from failing any course, and from committing any acts of indiscipline. Oh, and if you're a B.Arch student, sorry, but you're not eligible.

a well-meaning senior in action

Such epithets are not earned easily. So battle it out against your peers, renounce your worldly pleasures, maybe miss out on a few chapos in order to get branded as the infamous "BC".

*Any resemblance that this acronym bears with that of a rather infamous Hindi swear word is sworn to be nothing more than an innocuous coincidence.

AUDIT

Audits are another 8 credits worth of courses one can take up in their third year. Unlike most other courses however, you are not graded for these, save a binary Pass-Fail quotient. Regardless, all

other rules like attendance requirements and such still hold as they would for any other course. Although it may seem pointless at first, these courses can still be used to grace your resume.

SPECIAL CLASSIFICATION

Social strata in Planet R can be taxonomically divided into 2 kingdoms - Ghissus and non-Ghissus. Further phyla include productive and non-productive Ghissus. Non-Ghissus thrive on the top rung of the social ladder, and Ghissus triumph academically. The Ghissus account for 50% of the occupancy of MGCL on normal non-exam days. The other 50% is made up of young couples looking for a quiet corner to canoodle.

SCHOLARSHIPS

James Thomason Scholarship: James Thomason facilitates students with an All India Rank under 250 in JEE Advanced, found exclusively in the Computer Science department, to avail an amount of 25,000/- for 10 months per year, provided they manage to maintain a CGPA of more than 8.0 at the end of each academic year (which may be a bit harder than you imagine).

Aditya Birla Scholarship: Aditya Birla Scholarship is available to the top 15 students (JEE Rank-wise) in the institute. The selection process for this highly coveted scholarship involves a multi-step procedure including write-ups, interviews and a felicitation ceremony to say nothing of the free flight to Mumbai. ABS scholars receive a sum of 1,00,000/- annually. But the true merit of this scholarship lies in the networking opportunities it offers with one of the biggest conglomerates in India.

Merit-cum-Means Scholarship: Can be availed by up to 25% students in each branch. The means based criteria specifies that the student's family income is to be less than 5 L.P.A. while the merit part requires the candidate to maintain a C.G.P.A above 7 at the end of each academic year. First yearites however, are judged on the basis of their JEE rank, which has to be under 10,000. Eligible candidates get a minimum of Rs 1000 per month for 10 months per academic year along with refund of the remaining tuition fee. have the entirety of their tuition fee waived off

For further reading, Check out Awards and Scholarship Booklet

Inspire: Inspire is offered exclusively to students enrolled in basic science streams a.k.a Integrated MSc courses with a 4 digit JEE AIR or less. Eligible candidates may avail 80000/- every year. Nottomention, Inspire is also quite a valuable epithet and is a crucial requisite for Inspire Fellowship, one of the major grants offered to research scholars in India.

AWARDS

Excellence Award from IITR Heritage foundation: The IITR alumni of USA founded the Heritage foundation in 2007. The Excellence awards are awarded keeping in mind academic, co-curricular and extracurricular achievements. The amount offered though is not fixed, being entirely dependent on the donation pool for the year.

IITR Encore Awards: Encore is an endowment fund established by the batch of 1989. The fund itself was established in 2014 marking the 25th anniversary of their graduation from the institute. The awards are divided into two categories: Merit-cum-means: 4-6 awards worth Rs.30,000 awarded to 2nd year undergrads for all round excellence. All-round Excellence: 2-3 awards worth Rs.50,000 awarded to 4th year undergrads for academics, sports, arts, social service and overall leadership.

Directors Gold Medal: Directors Gold medal is awarded

convocation to the student with the highest CGPA across the institute at the end of their program. at the time of

Lt. Gen. Ram Adhar Loomba Cash Prize (F): Lt. Gen. Ram Adhar Loomba Cash Prize of Rs. 5000/- for the student who obtains highest CGPA in B.Tech. (Civil) III Year (among female students)

Kaustubh Roy Memorial Cash Prize: Kaustubh Roy Memorial Cash Prize of Rs. 6000/- for obtaining highest CGPA up to B. Tech. Mech.Engg. III year

Rai Singh Jain Cash Prize(F): Rai Singh Jain Cash Prize of Rs. 3000/- for the Prof.P. Mukhopadhyay

Cash Prize : Prof. P. Mukhopadhyay Cash Prize of Rs. 2000/- for obtaining highest CGPA in B.Tech. (Elect.) III year

Rai Singh Jain & Shakuntla Devi Jain Cash Prize : Rai Singh Jain & Mrs. Shakuntla Devi Jain Cash Prize of Rs. 3000/- for the student (Male or Female) obtaining highest CGPA in B.Tech (CSE/E&C/Elect.) I,II and IIIrd Year

“1988 Batch Award” Cash Award: “1988 Batch Award” Cash Award of Rs. 12000/- to a student of all UG Programmes in Engineering for each year respectively on the basis of Academics Performance of Autumn Semester

Air Cmdr Shyam Chand Mehra : Air Cmdr Shyam Chand Mehra Scholarship” of Rs. 10,000/- to girl students of B.Tech Ist, IInd and IIIrd year for obtaining highest CGPA in B.Tech. Electrical Engg in their respective batches.

Nayyar Award for Excellence in Communication: Nayyar Award three prizes of Rs. 50,000, Rs. 30,000 and Rs. 20,000 for students in 3rd, 4th and 5th years of UG/IDD courses and all students of PG courses are eligible.

Gauri Shanker Malti Prize:

Gauri Shanker – Malti Prize of Rs. 10,000/- for the student who obtains highest CGPA in B.Tech. (Civil) III Year.

Manoj Jain Award for Human Values: Manoj Jain Awards of Rs. 50,000/- plus Shield & certificate of Final years students of B. Tech., B.Arch and Dual degree engineering

Ajit Singh Yadav Memorial Proficiency Prize: Ajit Singh Yadav Memorial Proficiency Prize” the First Cash Prize of Rs. 25000/- and the Second Cash Prize of Rs. 15000/- to a student (Male/Female) of Mechanical & Industrial Engineering Deptt. 4th year on the basis of weightage upto 75% having highest CGPA upto 3rd year in MIED and 25% (1) Introduction to Environmental Studies (CE) (2) Ethics & Self Awareness(HSS) and (3) Engineering Analysis & Design (ME) and (4) Principles of Industrial Engineering (ME).

Bachelor course (Male and Female).
students.

Bhagwan Devatma Award for Excellence in Social Service : Award will consist of Rs. 20,000 Cash Prize, a Certificate and a Gold- plated Medal. The award will be given to the student during third year of their studies.

Sh. Pandit Shiv Dayal Singh Memorial Award for Excellence in Social Service: Award will consist of Rs. 20,000 Cash Prize, a Certificate and a Gold- plated Medal. The award will be given to the student during third year of their studies

THE Campus Rules BY ADMINISTRATION OF IIT ROORKEE

1. Stepping on the main-building lawns is strictly prohibited (you might get shot at sight). There are exceptions of course; like if it's your convo, or during Cogni and Thomso, or when the guard is simply not looking your way.

2. Climbing the famous ‘chhats’ of Badminton Court, MAC, BioTech Department are not allowed. You may fancy the water tanks too, but we have to warn you of the consequences that include, but are not limited to experiencing the force of gravity and the guard's stick.

3. For some weird reason, attendance at NSO is taken more seriously than in the lectures. It is common to see students running for their NSO practice initially, are, in the later parts of the year, found running from practice.

4. Whether or not you are a ghissu, it is an unsaid rule to share the legendary ‘pattagobhi’ before your exams, in order to pass with the bare minimum grade, if not flying colors. This holy cabbage shall be made available to those who ask for it, in the form of a WhatsApp sticker, GIF etc.

5. There is no way you should attempt or even think about attempting your tutorials on your own. It might result in epileptic seizures, social ridicule or in the worst case, horrific grades.

6. Sleeping in the library is prohibited. You'd think it obvious, but wait till you open a textbook or two in the library. The induced sleep can knock you out in seconds. The comfy-sofa section has been replaced by multiple chairs to avoid any student(s) from sleeping- by themselves or together; and is under CCTV surveillance and is carefully patrolled by guards.

7. It is forbidden to distract mess workers by using old sweet coupons and smuggling extra ice-cream. Regardless, the extra sweets will only attract unwanted attention from your fellow peer

8. If you are out for a nice walk around the campus or running an errand and happen to pass by a ‘spot’ (commonly termed ‘khopcha’) and sense the presence of two individuals, you shall be expected to pretend that you have temporarily lost your senses of sight and hearing.

9. Masala : Indian Food :: Masala : Watch Out! Editors

Gossips, or masala, is loved by everyone in conversations if not food. The rules are simple. Either nobody knows, or everybody knows.

Consumption of a certain particularly bitter liquid, in small, large or Patiala proportions, is strictly prohibited. If, however, you find yourself *accidentally* (since you're a harmless angel) under the *mild* influence of this bitter liquid, be sure to not text your ex, your parents and your profs.

Letting your homies know how much you love them , though, is considered ritualistic and is expected without fail.

Research

In R-land, research is given tremendous importance. Unlike our sister IITs, we do not believe in burning down laboratories as a part of an intensive, fascinating and passionate experiment - here, we trust in our labs to burn down themselves. Every once in a while, one hears reports of some guy in the CS department coming up with a conclusive proof that P does indeed equal NP. But there isn't much follow up to that and people invariably assume that the thermostat in the department might have stopped working again . One can also observe students of the Earth Sciences department late at night digging their own graves, or those with the chemistry lab, plucking flowers and playing with leaves for their 'experiments'.

The most path-breaking research, of course, happens in the Civil department. This is because most of their research tends to involve breaking down existing roads and laying them again, in the hope of finding that elusive X to Y ratio, where X and Y are two materials no one else in the institute has any idea about.

Regardless, students of this department can be frequently spotted in the campus carrying yellow tripod stands mounted on which is a camera, or as they prefer to call it, 'Ultra-high resolution wide-field LASER autofocus long- range theodolite with night-vision', and a measuring tape. They probably use these to measure something, though no one has ever bothered to stop and ask them what.

Regardless, we continue having tie-ups with leading corporate firms like IBM, Adobe, NVIDIA, TVS and several governmental and non-governmental organizations like the Ministry of Human Resource Development, CSIR, ISRO, National Science Foundation USA and the Nuclear Power Corporation of India. There are various programmes by the government for promoting undergraduate research on campus.

You can read about them in the Research Intern Booklet

SPARK FELLOWSHIP

IIT Roorkee invites applications for institute-funded SPARK fellowships for summer internships. The objective of this program is to provide research exposure to interested undergraduate students of IITR. It also aims to attract and nurture talented undergraduate students from other institutions. This program provides a weekly stipend and project-funded summer internship.

Eligibility

Students currently enrolled and have completed at least two semesters of the undergraduate degree (B.Arch./B.E./ B.Tech./M.Sc) in a relevant discipline from any institute in India
Almost all major IIT's, IISER's and research institutes have their equivalent of SPARK

Minimum Grade Requirements

CGPA > 7.5 for IITs/IISc.

CGPA > 8.0 for NITs/ IISERs/ NISER/IIEST.

CGPA > 8.5 for students from other institutes.

Stipend:

Students selected for the program will get stipend of INR 2500/week.

(i) Applications need to be submitted through an online portal where the applicants will upload their transcripts (marksheets), a photograph, a 500-word research statement, and resume.

(ii) Applicants need to mention names of five faculty members of their choice from the list of faculty members interested in having a summer intern.

(iii) The term of the summer training should not be less than 6 weeks.

(iv) Students of IITR will be allowed to begin their summer internship immediately after the completion of the end-term examination.

(v) Accommodation and mess facilities in the Bhawans, subject to payment of necessary charges at par with that paid by students living in hostels. The average cost of housing would be around INR 5500/month (including mess facility)

(vi) At the successful completion of the internship, a certificate from the institute with the name of the intern and mentor, signed by Dean, SRIC, will be issued to all interns.

Internships

Apart from being the lurking bogeyman of the campus , an internship is basically a stint you have with a company or an institute. It fetches you experience, helps you find what you want to do with

your life, makes you realise what you absolutely DO NOT want to do with your life, but most importantly, fetches you points on your resume which leads to better internships and jobs and eventually you being independent and buying the Kinder Joy you always wanted but didn't have the guts as mom was nearby.

Research internships, broadly speaking, involve you working with a professor (and/or their students) on a project that gives you hands on experience in the field.

The only thing you can bank on about internships is that the campus comes to your aid in the first semester of your pre-final year, where, like placements (albeit at a smaller scale), companies come hiring - the process which is referred to as an 'on-campus intern'. The PIC comes to your rescue wearing a cape (which sadly people outside PIC are not capable of seeing) by flooding the Channel-i Noticeboard with profile announcements and debarment notices

Off-campus internships involve students applying for their preferred roles on their own. The application process for any internship inevitably involves some form of mailing, (so do brush up on your mailing basics. Our favorite course for becoming a hardcore email expert- <https://www.universalclass.com/i/course/using-gmail-101.htm>) while many also involve you seeking referrals from seniors, family members and even professors.

You can apply for these internships at any point of your existence regardless of your current semester, branch, year, or anything else for that matter. We have been privy to students cracking the prestigious GSoC, going for universities abroad (Like NUS, NTU) etc. right in their first year, while some bag those juicy high-paying internships without any prior experience. It all depends on the experience you want to gain and the time you want to spend away from your friends having fun at trips.

For those of you who dislike coding, here's a hard pill for you to swallow :

Almost no industry, or science, functions without coding in one form or another. Virtually all companies that grace our campus during this season, include a coding test amongst various other tests. Many final yearites realise this just as their seventh semester begins, and in a frenzied, maniacal hurry, learn as much as they can in the few months they get. We advise readers to learn from the countless people who've made this mistake, and urge everyone, without fail, to learn to code, in one form or another. The form will depend on the field you choose to make a career in.

Placements

Things change drastically when you enter the final year. Here, for the final year students, the months of October, November and December are a season- not winter though, they're called the placement season.

The Placement Season

This season, among all the seasons of IITR, can be identified as the time of year when you start noticing the final year students heading towards the PIC building, dressed in borrowed suits, some looking dapper and some looking awkward enough to make you uncomfortable. Like winters in Roorkee, placements go on for a very long time. To state the obvious, placement and job availability are probably the only two things many JEE qualified students (that means you) consider before filling the form.

So the writers of this guide- instead of criticising the underlying drawbacks of our existing education system, herd mentality of people and ultimately the over population of our country - will enlighten you regarding the same. Right now you need to know about 4 things:

1) It begins and ends in your final year.

2) It is highly unpredictable.

3) Your CG, irrespective of the department, matters. 4) Your starting job (which you'll probably get after 4 (or 5) years from now) is not the thing you should be worried about right now.

The nature of companies who come to IITR for placements is quite diverse. We get software giants like Microsoft, Oracle and Google, investment banks like Goldman Sachs and J P Morgan, and numerous other firms who give decent jobs in the domain of software, product development, finance and the core sector of Civil, Mechanical and Electrical Engineering.

Placement and Internship Cell

This is probably one of the most mysterious places of IITR where unsuspecting students find themselves at the end of their stay, dressed in, as already mentioned, uncomfortable borrowed suits. Serving as a looming reminder of the placement season, it is located in front of the Convocation Hall. On the outset, it looks like a usual innocent and not-diabolical building: with walls, windows and doors. However, horror awaits the seniors inside as they are grilled on questions about science, technology and business, and then offered two pens: a red one and a

blue one. Regardless of which one they pick, they're ultimately rejected on grounds of having a below par GPA, or sometimes simply their branch

Campus politics

For thousands of years, the warlords of the galaxies far-far away have fought innumerable, ruthless battles. Sparks have flown, tears have been shed and natives have perished in the dark space. All of this for the Iron Throne of the Students' Affairs Council (SAC) of the R-land cosmic space. It is said that the Iron Throne was studded with a thousand light-sabers before being reluctantly replaced by a revolving chair due to multiple posterior problems reported by the delegates involved. The ultimate doctrine (which is something as imaginary as this guide) declares IITR to be a democratic institute. Here students have as much say as the administration when it comes to campus affairs, which of course translates to very little. While discussions and debates pertaining to what to do with the freshly allocated funds (hint: do anything except improve the existing conditions of the hostels).

The Student Affairs Council (SAC) is the body that represents student community in the IITR senate.

After a long and violent history of intense political campaigns and several electoral reforms, the mega election extravaganza is scheduled to be held each year in the Spring Semester. As the atmosphere starts to get politically charged, introductions are made, affiliations are expressed, 'pacts' are signed and chapos are given. One may even get a glimpse of the people that are contesting, through 'Electoral' debates where you get to enjoy free cartoned drinks if you obey the decorum of the house .

Like it or hate it, it's almost impossible to be indifferent towards poly season. Seniors try their best to act like godfathers to their corresponding juniors and encourage them to vote for their own mates. As swarms of perfect strangers start moving from door to door, screaming out their manifestos, boasting about their internships, their promises ranging from slightly laughable to excessively outrageous. R is perhaps unique in this respect among all its sister IITs. While many of them have student representatives in their senate; very few have participation and enthusiasm on this grand a scale.

The SAC consists of student representatives at the bhawan level as well as the insti level. Every citizen (they who have an enrollment number), except international students and Saharanpur campus students, in R-Land gets to vote in the SAC elections.

The exact structure and functioning of the Senate, the SAC and numerous other student councils and committees (like the Technical Council, Academic Committee, Cultural Council etc) is quite complicated. If you want to read further, check out our article on the same (link).

Hostel Life

All fresh-boys reside in Rajendra Bhawan(RJB) and fresh-girls used to stay in Sarojini Bhawan(SB) before the making of the newly formed Himalaya Bhawan created vacancies in Kasturba and the administration decided to shift the first years there (along with a few second years). Some RJB residents enjoy the exquisite pleasure of single rooms thanks to a 100% purely randomised room allotment algorithm. No such luck for KB residents.

Bhawans come with most of the basic amenities one may need in day to day life.

In the first few days, you may find yourself a tad bit annoyed by the seemingly endless queues outside the mess and showers but rest assured that these are known to dissipate in a week or two as more and more people lose interest in baths, food and other everyday activities that were considered essential back at home.

Every bhawan and even different parts of a bhawan come with their own set of nuances and eccentricities.

C Block of RJB is widely known and feared as a place of unsettling corridors and unruly stoners; the rumors are yet to be confirmed. The top floor of B block is the lair of ghissus, the only place free of commotion on the night before exams.

Amenities

Harsh

@ RJB

A bathroom that you share with the 50 people that live in the same row as you, along with a dog or two if you're lucky. And to say nothing about the spiders and lizards...

A mess that serves... food...

A laundry guy that knocks on your door twice a week and can be counted on as a reliable alarm. There's also a laundry room that requires you to provide your own detergent but is quite a popular alternative among people who find the laundry guy's early morning timings to be inconvenient. A number of open spaces in case you ever feel like catching fresh air or are unfortunate enough to be the victim of a GPL too grand to be contained within the hostel corridors. A Gym for evening work-out sessions, whatever your reasons for that may be. There's also an allegedly ungodly fast LAN connection in every room, perfect for multiplayer showdowns and movie nights arranged on a whim.

@ KB

The mess in Kasturba Bhawan is more than what your male counterparts can boast of- many may find it likeable (at least in the beginning) and most would at least visit it once during the day for dessert.

The fruit stall will be your tummy-saviour for all those/most of the days when you'll wake up right after the mess closes for breakfast.

The beauty parlour will be your go-to place for rewarding yourself with head washes or regretting a haircut afterwards.

The TV/Cyber/Reading room will be the libraries for those who are too lazy to go to MGCL for the exams and for those who need an AC to survive the harsh Roorkee summers.. These rooms then serve the purpose of cloak rooms during long vacations, perfect epitome of *chaos*.

Bathrooms on every corner of every floor, cleaned twice a day.

A stationery shop - your life saviour for all the last-minute graphs, practical files and other necessities like soap and toothpaste.

The laundry room, as in RJB and a press-wali auntie.

A Gym.

The PhD Quarters in KB must be entered cautiously. Whispering loudly in front of the rooms of PhD students may fetch you an earful, or even a bucketful of water thrown at you.

Kasturba Bhawan has 3 blocks: A, B, and C. A block contains mostly single rooms occupied by PhDs/MTechs and some final year BTech Students while B block has all the amenities like gym, canteens, washing/laundry room, TV room, etc.

C Block is the home to first and (few lucky second yearites who chose to run away from the shackles of SB in the hope of finding a better life for themselves- author of this piece included). The ground and first floors are occupied by the second yearites while second to sixth are for the first years.

A Hostel, or Bhawan as they are fondly referred to here in R-land, is much more than the tangible amenities it has to offer. It's a lifestyle. So enjoy it while you can. The movie nights, bakar sessions and late night stoner talks. Who knows, your wingmates might turn out to be the siblings you never knew you needed

Gauri Garg

Fest thomson

During your stay at R, the months of October and March will be a haze, a blur. For some of us, this is true quite literally. These months are remarkable in that they have a lot of things to look forward to. October heralds Thomso, while March brings with it Sangram, Srishti, and Cognizance. Here, we give you a brief glimpse of what to expect from these and other such fests.

Thomso

During your stay at R, the months of October and March will be a haze, a blur. For some of us, this is true quite literally. These months are remarkable in that they have a lot of things to look forward to. October heralds Thomso, while March brings with it Sangram, Srishti, and Cognizance.

Here, we give you a brief glimpse of what to expect from these and other such fests.

The annual cultural festival of IITR, Thomso will be the best time of your campus life, if it does happen.

We kid, of course.

It is important to note that this fest is organised by the students. You can, of course, apply to get into their core team, if you bring with you dreams and ambitions of making this fest great. Stand up comics have been known to resent the vile hooliganism and tomfoolery characteristic of the thomso crowd. Celebrities and musicians have often been invited, although the live shows are seldom as good as you'd expect them to be. If you're a loud, extroverted EDM-loving anthropoid who loves to dance like no tomorrow with perfect strangers, you'll have the time of your life.

Various cultural events are organised throughout the day, including band competitions and the famous Footloose, which IITR's Choreography Section unfailingly brings home every year. Other events are not so popular, however, and are known to have very less participation, especially from IITR. A lot of people who come from other institutes are usually not interested in the competitions they've arrived for - but for the charm and magic of visiting an IIT.

NSS Social Summit

Social Summit kicks off the trinity of fests in the spring semester. It is the socio-technical fest organized by NSS. It is replete with multiple events like panel discussions, case studies and guest lectures, underlining the message of social conscience.

If you are a faccha in NSS, you will be hounded by your seniors to attend the aforementioned guest lectures and panel discussions, with the ever-looming issues of attendance over your head.

Cognizance

Cognizance, being the 2nd largest technical festival of Asia (like every other IIT's techfest), is the favorite imagined reality Roorkee likes to believe in. Cognizance takes place in the Spring semester: just after the curse of the midterms vanishes from the lives of people. It shares its core fundamentals with Thomso - it is fuelled by hard-working students, invites eminent personalities from all over the world for guest lectures, workshops and stage-shows pertaining to the world of technology.

For both Thomso and Cogni, a modest structure of hierarchy exists while working. A typical freshman involved/pretending-to-be involved in the work can be identified by the following:

°1 Begging his facebook friends to like the Cogni page.

°1 Putting up posters in Bhawans.

°1 Undying devotion for any kind of Chapo from a senior.

A burning question that might plague a ponderous mind is "How do I choose which fest is my true calling and where do I invest my money in buying its giant banner to cuddle up and fall asleep with?"

Sangram

The official sports fest of IITR, Sangram offers the sports fraternity of IITR a reason to keep their spirits up after the Inter-IIT season ends. High spirited matches are marked by intense jeering and inventive name calling from the abundant IITR crowd, granting you the illusory sense of accomplishment for having done your part for the campus. It sees a healthy turnout from many north Indian colleges, IITs included, and is utilized to give freshmen some much needed game time. Needless to say, regularity a month or two before the fest can land you a spot in one of the B teams and maybe give you your satta minute of fame.

Shrishti

Shrishti is the annual exhibition held in the SAC, wherein all sections of the Hobbies Club (now Technical Council) showcase their works. It takes place in March and is part of the holy trinity of fests of the Spring Semester - along with Cogni and Sangram. Workshops, art exhibitions, talks and some live actions from robots and models are some of the main features of Shrishti. One can also enjoy some quirky pictures being taken by the Photography Section with the hilarious props made by the Fine Arts Section.

Inter IIT Events

The month of December sees all 23 IITs gather to compete in an array of events split under 3 verticals - tech, cult and sports - each hosted by a separate IIT. Selection, training and participation are handled by the appropriate section. In the wake of IITs popping up in every nook and corner of the country, these tournaments are getting bigger and better in terms of number of events, quality of judges and overall competitiveness.

Pro-Tip : While recruitments by all campus groups are officially conducted in the spring, another round of pre recruitments is held in the fall, specifically for inter IITs. Appearing for these rounds, irrespective of whether or not you intend to actually participate in the Inter IITs, goes a long way in securing permanent recruitment into the respective groups.

You also get a special set of clothes and jackets to show off.

sports

The grandfather of the Inter IITs, the Sports Meet is over 50 years old. The events are split into an Aquatics meet and everything else. NSO kids duke it out to make it first to the summer camps and then the winter camps (with boiled chicken and curated meals) to stand a shot at being selected to the final contingent. Burly, sweaty kids from all over the country then shove around for the championship.

cult

The youngest of the three, the Cultural Meet is a much needed addition. It comes as a refreshing and necessary slap on the face for those who stereotype IITians as awkward nerds, incapable of

performing well in any other field. The performing sections spend months preparing for the same, and the Cultural Meet reaches a grand crescendo towards the end of December, ultimately culminating in 3 days of amazing performances, some of which could put professionals to shame. With the events increasing and diversifying each year, all IITs are prompted to form groups that deal with those spheres. The power gap between the more established and newer IITs is gradually decreasing.

tech

All events that don't fit in either of the above categories get thrown here. Events here include Biz Quizzes, Financial Case Studies, Hardware Modelling and Robotics etc. As is expected of IITians, these competitions rarely fail to amaze and stupefy, and as opposed to the Cult Meet, the Tech Meet is considered holy and pivotal not only by the students, but by the administration of all the participating IITs as well.

CAMPUS FACILITIES

Roorkee's campus is serene and graceful. One notices the lush greenery of the campus the instant one sets foot inside. One notices remarkable products of human activity too. Our campus is perhaps unique, in that its architecture is archaic - reminiscent of a time when the nation was in turmoil. You'll need to be well acquainted with a lot of old and new products of civil engineering inside the campus, and here we mention a few essentials.

Institute Hospital

Institute hospital of IIT Roorkee is a 50 bedded hospital that offers OPD, IPD, Laboratory, X-ray and ECG services to faculty, staff and students. The hospital functions from 8AM to 12:30PM and from 4PM to 6PM. It also provides emergency services 24*7. At least one medical officer is always available to treat emergency cases. e- Medical Booklets have been introduced that can be used to access prescriptions, medical history, records of medicines etc.

The Mahatma Gandhi Central Library is a three-storeyed air conditioned building that houses more than 3.5 lakh books and more than 20k e-books. It's one of the most peaceful places you could find inside the campus except during exams as the place piles up with a large number of last minute learners. Its timings are from 8am to 12 midnight on normal days and all around the clock during exams. However, to cater to the needs of the highly determined, the reading room of the library remains open 24/7.

MGCL

Vansh Mehra

Main Building

Harsh Kumar

The Lecture Hall Complex, a three- storeyed building, is conveniently located near the Central Library so as to reduce the time taken by highly ambitious junta of R-land to commute, right after their classes. Lectures of non-departmental courses and most of the tutorials take place at these satisfactorily designed, air conditioned halls that turn out to be too comfortable for us muggle-borns to concentrate. Exceptions similar to Lily Evans and Hermione Granger are unavoidable amongst the R-crowd - as is the case with any other.

FUN FACT: We are lucky enough to have two LHCs: The old LHC, which houses a large board bearing the words 'New Lecture Hall Complex' and the New LHC. For the sake of simplicity and sanity of the readers, we shall refer to them as the Gargi Block and A.P.J. Abdul Kalam Block of the LHC respectively.

This open space next to the Student's Club (not anymore,sadly) and PNB is the official hangout place for R junta, that doesn't know what to do with the cursed one hour breaks between classes. With a rather uncomfortable seating arrangement that allows no privacy for couples, it is perfect for passing time sipping the famed infamous iced tea and cold coffee (an acquired taste) with friends. The delicacies are not exquisite but the mediocre content of the cuisine is more than made up by the rich, invigorating content of the conversations.

is the

LHC

Chai Garam

MAC

Vansh Mehra

The SAC (Student Activiy Centre) is an architectural marvel (derogatory). Bold and imposing from the outside, within is a poorly designed maze- perfect for couples looking to cuddle and your high friends to trip and get lost in and a recent addition-12 AM birthday parties. You will witness triangular and trapezoidal rooms and doors on the top floor that go all the way down, designed that way for no reason. These rooms have been occupied by the Cultural Council and the

Technical Council. The building is extremely noisy whenever the Music and Choreo Sections practice, much to the (dis)content of their peace-loving peers.

Wellness Centre

Vansh Mehra

Mental health is at least as important, arguably even more important, than physical health, and the Institute realises this and lays a lot of emphasis on working towards the psychological well-being of students. The wellness centre has a tie-up with 1to1help.net, a professional organisation which works in the corporate sector to provide counseling services. The counselor visits the Institute frequently, and the wellness centre is responsible for scheduling sessions, while obviously maintaining one's anonymity. One can also chat or have a telepShhorunti iGcour conversation with a counselor if one prefers that. The wellness centre also organises talks on various issues and conducts activities for UG and PG students to increase bonding.

For quite some time, the location of this canteen was a closely guarded secret of the inhabitants of Sarojini Bhawan. The canteen is situated in the vicinity of Jawahar Bhawan just outside campus. However, over the years, its popularity has increased tremendously. Nowadays, it attracts a lot of wandering souls who lust for crisp Aloo Parathas for lunch or dinner. The brownie served by the canteen is delicious and the friendly attitude of the uncle running this place puts it leagues ahead of the hostel canteens. It is frequented by professors and PhD students who are a part of CBRI. Be prepared to spend half an hour waiting for your food though, it's upto you to decide if it's worth it.

CBRI Canteen

The Church

We also have a small temple and a mosque inside campus, but the Church holds a special place in everyone's heart irrespective of their faith. Located near Convocation Hall, the Church is an architectural beauty. It's not impressive, it's just quaint. Sundays find the more ardent believers quickly making their way to pray, while Christmas Eve finds it beautifully lit and well decorated. It is considered ritualistic to go behind the church in the name of exploration and then get chased by the overprotective dogs who are guarding the entrance to what is probably the City of Gold.

Places to Eat

Birthday? Check.

Dassi? Check. Intern/Placement? Check. Desi Tadka has been a staple chapo point for any and many occasions for the R-junta. Characterised by its spicy food and rich flavors, this moderately priced, pakka Indian restaurant is on the main road and is lit up with strings of pretty lights. The only downside being the limited numbers of tablet-menus that might keep you waiting 10-20 minutes during peak times

While most afternoons here are spent pondering 'Where should I have lunch today?', a few are also spent wondering 'Why do we even bother to check the mess food?'

The sole purpose of this guide's existence is to serve as an answer to questions like these. For reasons not limited to establishing authority, we shall also make an attempt to cover the other, more trivial things. By now, we have already established that IITR is big. No, not space-big. Not even KGP big when compared to others. But we are big enough. What this means is that we can afford to spend ludicrous amounts of land to serve as vast green spaces (stepping on which might get you shot), or to start endless construction projects.

While life goes on inside, it thrives outside the campus. We began with the dilemma students face to decide which restaurant to have lunch in. This is not because we have a lot of options, but mainly because there is very little differentiating the ones that exist. If you want to have, say, Italian or Continental or Mongolian-African-American - extra spicy, well, forget it. However, if you wish to treat yourself with a little paneer or chana-masala, well, here you go.

The restaurants that exist outside the campus to serve as places to eat other than the mess and the canteens, offer very little for too much. In all this, perhaps the tea point by the side of the bus stand would be your second best option. The best, of course, would be the guy you think you know who just came back from home with a really heavy backpack.

So, you can try the following places, just for a change:

Peppery Herbs

Opened a few years ago, this place now gives Olive serious competition. Run by a really kind couple and although known for serving excellent sandwiches and chinese, be aware of the fact that the food will be totally worth it only when you are on a date or beg a well endowed friend for a chapo here.

Olive & Rustic House

These are ideal places for potential love birds. You can eat here without the fear of finding your single friends around, partly because they are single and partly because it's so damn expensive. But if you're someone who doesn't care much about materialistic things like money, Olive and its equally bourgeoisie friend called Rustic House, is where you can gorge on some good quality paneer, chicken and pasta around Roorkee.

Pizza Hut & Dominos

It was only a few years back that Pizza Hut realized the growing importance of Roorkee as a potential market and decided that they could no longer ignore it the way McDonalds does. The result of this epiphany is an occasionally crammed Pizza Hut Delivery outlet located next to Rustic. It has turned Dominos' pizza joint monopoly into a duopoly for those who can afford it/ convince

seniors to give them a chapo there.

The person hired for writing restaurant reviews was fired at this point, when it was learnt that he was - no disrespect intended - a lowly, lifeless geek. The reviews after this were continued by a stoner follower.

Spice Club

Located right next to Jain Uncle ki dukaan (rather conveniently), this joint is one of the best places close to the campus where you can get decent chicken. For some of us, Spice Club is a temple with unparalleled piety, run by waiters who couldn't have any less fucks to give, which makes the place even more endearing. Almost every evening, it is packed to the brim with Sports kids, chapo seekers

and residents of Ravindra Bhawan.

*** A fair number of these eateries offer neat discounts to students of IIT, so make sure to carry your ID card. If you forget it, make sure you look like you just fought a pig and sound smart (saying 'one for the lady' when ordering a glass of water goes a long way)

Hotel Prakash

Situated near Century Gate, Royal Palace is yet another Chapo point for IITR junta. Known for its dim ambience and excess oil in anything with gravy, RP is one of those places where you go when you are large in number. The place hardly looks like a palace, but it surely costs like one. The food is good, but the bill burns a hole in most pockets.

Khalsa Fast Food

(aka Bus-T, the T being for terminal it is presumed)

The fact that this is the only place open at 3 am in the morning should be enough to make this your favourite place in Roorkee. On top of that, it serves what is probably the best Bun-Butter-Bhujia in Roorkee, duly confirmed by the author and her friends in their first year itself.

Baap of Rolls

The many Kathi Roll shacks, Baap of Rolls being a fan-favourite, just outside the Century Gate of IITR are outnumbered only by the plethora of options they have on their menu. A quick fix to your hunger, these rolls have the most succulent bites of paneer, veggies and chicken, with some delightful sauces. Take your pick!

Jain Uncle ki Dukaan

This small shack is barely visible amidst all the smoke of the (unofficially dubbed) Sutta Point. But if you do find it, it is going to help your broke ass a lot in the next 4 years. It dishes out hot and edible food starting from Rs. 12 for a dish (with unlimited refills) and Rs. 3 for a roti. This is the place you

eat at after you spend all your money on stuff you probably shouldn't have.

Downside - You'll have rickshaw-wallahs and manual labourers as other patrons. That doesn't do much for ambience, but it's sure to give you a welcome change from the cut-throat and claustrophobic urbanity of the campus. Upside - Jain uncle, being the noble soul that he is, will probably let you eat on credit. This humble writer has had a balance of almost a 1000 bucks at the place, without once hearing a complaint.

Fuzion by Center Point

Located close to the Century Gate, this place is extremely underrated in terms of possible chapo places. Mind you- the prices here are high, but still less compared to Rustic/Olive.

The place has some of the best food you could get anywhere in Roorkee with the chic-est interior that almost feels like Aroma.

They also have a candle-light dinner night on Thursdays so if you're thinking of a romantic evening for someone, this just might be the place for it ;)

Ramesh Dosa Shop

A number of outlets on campus claim to serve South Indian food (read 'dosa' and 'sambhar'). These are all scams that anyone that has tasted an actual dosa (despite all the variation) can see through instantly. However, Ramesh Dosa Shop is run by someone from Madhurai and is the closest thing people from down south will get to a home-style dosa. The coconut chutney and sambhar are decent but the red chutney is straight from north-indian hell. If you do visit the place and talk to Ramesh anna in Tamil, he'll likely give you a discount too.

Hangries

Located in the same Fuzion lane, this place has pizzas that will make you forget about ordering from Domino's and Pizza Hut. Hangries came to Roorkee during Thomso'22 and has over time become very popular amongst the IITR junta; especially on Wednesdays when theres a buy one get one free offer on pizzas :)

Places of interest (outside campus)

The Canal and Solani Aqueduct

We hope we have established by now that life within the confines of IITR is exquisite and suffocating at the same time. However, Roorkee has more for you in store. Here are a few places outside campus you will, in due course of time, surely visit.

Although everyone signs the undertaking form which promises that they won't be going anywhere near the canal or aqueduct (barring those who registered online), there's hardly any undergrad who hasn't visited it once. The aqueduct is a marvel of civil engineering. Located approximately 2 kms from the Century Gate, the place is worth the pain of waking up in the morning for sunrise after pulling an all-nighter. The sound of the gushing river is serene and peaceful. A wonderful place to get away from life, this spot is also known to sport quite a few exotic birds.

RR Cinemas

The only multiplex in Roorkee, RR is about 4.5 kms or a 10 min journey from the campus. A recent phenomenon in Roorkee, RR desperately tries to satiate one's desires to watch their favourite Bollywood actors' new releases or hollywood thrillers in a comfortable setting at reasonable rates (still cheaper than Haridwar or Dehradun). The 3D-quality is decent and you will also find restaurants and cafes inside the hall. Recommended if you wish to go out for a movie with peers. You may also be able to find solace in this place during weekends or post exams.

Neelam theatre

About 800m from the campus, there exists the only *cinema hall* inside Roorkee. It usually screens B-grade Bollywood movies, whose names can put even Kanti Shah (of Fauji Fauj Mein, Padosi Mauj Mein and Gunda fame) to start looking for a place to hide his embarrassed face. There are exceptions to this rule, of course. But then come to think of it, RR isn't much different from a B-grade Bollywood fiasco either. The theatre is cheap. Much cheaper than going to Haridwar or Dehradun to watch a movie. While we would not recommend this as a place to go when you need to catch a Nolan or Tarantino masterpiece (supposing it showed one and assuming you are an adult), you might think of visiting this place at least once during your stay in IITR.

Crystal World

Riya Elizabeth John

A fairly recent addition to Roorkee's getaway destinations, Crystal World used to be for those of you unholy, promiscuous, spiteful scoundrels who lust after KFC's Chicken before they arrived at Roorkee. The place is basically a large, expensive food court with big names like Gelato and Keventers. This is for those of you rich numbskulls who are too posh to grace our very own Spice Club. There is also a functional water park right next to this, where you might like to pay a visit and get nostalgic, reminiscing the good old school picnics.

Motel Divine

Ah, the (in)famous Motel Divine. You will get acquainted with this place as soon as your Freshers' Parties and Intro Chapos begin. Loud Punjabi music and EDM is the name of the game here, as the junta manically headbangs to Manali Trance and gets drunk on Pineapple Raita.

Certain other members of R, have a different and deeper connection with the same. Often called the green dungeons, members of Roorkee have been known to find refuge in the well that never dries (until 11 PM). Considered holy, this part of Motel Divine is often a spiritual journey. Readers will soon find out about the same.

Civil Lines

Vansh Mehra

As mentioned in the FAQs, this is the one stop-shop for all your daily needs. The Student's Store, in particular, is one of the few places every student at R goes to. For the brave ones reading this, you'll find some great street-side food here too. Located right outside Shatabdi Dwar (Century Gate for those of the New World), shops here include bookshops, medical stores, general stores, poster printing stores etc. You shall never have to go anywhere else as far as daily needs are concerned.

Off the campus tour

For all that's been said about the places on campus and within Roorkee itself, life can get a little monotonous. So what does one do if one has a couple of days free, and wants to get away from an annoying roommate? Luckily, Roorkee is surrounded by places that you can visit on a shoestring budget.

Haridwar

When one thinks of Haridwar, images of the sunrise, high-as-a-kite babas and people praying come to mind. However, it is not the same for a resident of R. You might want to visit Haridwar with your friends if plans of camping under the clear starry skies, and sharing stories with your friends while one of you gently strums a guitar in the background sound appealing to you. The next good thing you could do is go for a small hike to the Mansadevi temple while watching the sun come up enroute (this is obviously not for you if your roommate switches off your alarm for you). Apart from this, many often flock to Haridwar to watch movies and chill with their buddies.

Rishikesh

Probably best known for being the spiritual retreat of The Beatles, this is also another place that is frequented by people from the campus. Chances are, you might bump into the roommate you wanted to run away from in the first place. Still Dehradun is about 2 hours away from the campus and that's where you go to watch famous movies on the first day if nearby theatres are full, or shop at a mall, or enjoy tasty food at lavish restaurants. Apart from this, Robber's Cave is a popular picnicking, hiking and wading spot to be visited. Dehradun also serves as a starting point for many small bike trips to places like Mussoorie, Kanatal or Dhanaulti. One of the major benefits of being at the foothills of the Himalayas is that one could also go on treks to rejuvenate themselves. The 'Himalayan Explorer Club' or HEC is a students' club solely serving this purpose. , Rishikesh is known for its famous Ram and Laxman Jhulas, that are jam-packed in the day with scooters and people crossing and add glamour to the view at night with their shimmering golden lights.

Adventure sports like river rafting and bungee jumping are the major attractions here. The Beatles Ashram is another frequently visited place which houses relics from the visit of Lennon, McCartney, Ringo and Harrison. Apart from this, Rishikesh is loved for its cafes, which are great places to chill out. One might want to visit the Beatles Cafe in particular. The best thing about Rishikesh is the versatility of the place. From a one day bike trip to an adventure filled trip to a peaceful night out at the Ganga Ghat, Rishikesh has it all.

Dehradun

Dehradun is about 2 hours away from the campus and that's where you go to watch famous movies on the first day if nearby theatres are full, or shop at a mall, or enjoy tasty food at lavish restaurants. Apart from this, Robber's Cave is a popular picnicking, hiking and wading spot to be visited. Dehradun also serves as a starting point for many small bike trips to places like Mussoorie, Kanatal or Dhanaulti. One of the major benefits of being at the foothills of the Himalayas is that one could also go on treks to rejuvenate themselves. The 'Himalayan Explorer Club' or HEC is a students' club solely serving this purpose.

Forget all about the pressure of days

A quiet walk alone in the dark, with only the chirping of crickets to keep you company. The smell of eucalyptus leaves and jasmine flowers reminiscent of a time and place you left behind, the voice of Thom Yorke bleeding out your anguish. A lonely little pupper crosses your path and you stop to pet him. You decide to sit there by the side of the road for a while and let the tide of emotions roll over you. Life is easy for no one, and we all need a place to get away.

Here are a few places in Roorkee (not restricted to the campus) that you can wander off to, and hide from the pressure of days :

The Professor's Square

This quiet park is located a little discreetly. A left turn near Cafe Coffee Day takes you into the professors' living quarters. The buildings are conveniently placed around a beautiful little park with a few swings and slides and a lot of open area. A few benches adorn the edges - great spots for

introspection. Evenings find the park busy with kids, but after dark, this place is perfect for an hour of peace and solitude if the guards do not shoo you away

CBRI

It won't be long before people lead you to the brilliant CBRI canteen. Great Paranthas make for some great dinner table conversation if you don't mind the half-hour wait. However one must venture even further inside to find the cinematically perfect roads that take you into a different world altogether. Music sounds holistic for the first time- the leaves and flowers dancing and hollering their poignant yet beautiful stories. Each colour hits a different note, fireflies appear and fade away in perfect tempo, and a world of colour and sound blends into one grand wave of emotion that stops time and punches the wind out of you.

Ganga Canal

One of the first places you will visit once you arrive at Roorkee, will be Civil Lines - the one stop shop for all your daily needs. The straight road once you step out of Century Gate, is lined on both sides with shops that cater to your every need. This shopping boulevard eventually leads you to the Ganga Canal. We'd be fools to not mention that this place can be a densely populated, sweaty mess that melts all souls into one dehydrated monster. Darkness to the rescue. The ever flowing river can lead you down multiple memory lanes, not to mention the tear jerking reflection of the moon. If you do happen to take a lane that leads you to the opposite bank, you might find yourself in Roorkee's very own simulation of the streets of Banaras. The soft gushing of the river can soothe even the darkest soul, as can the slight breeze on your face, reminiscent of a forgotten and feel insignificant.

The best places to get away from life are not the ones other people tell you about. These places are not too hard to find, yet they can mean different things to different people. The most niche and lonely places, though, will always be the places you find on one of your 3 AM solitary adventures. Which brings us to the best getaway : the 3 AM campus walk. Make sure you experience the brilliance of this campus late at night too.

Be sure to check out some memoirs our beautiful seniors wrote, fondly reminiscing about their time spent here.

Q1 IIT-R lingos

There was a post somewhere on the internet (<http://iitbakar.com/enpunch/iit-roorkee-lingo/>) which explained all the terms used at IIT Roorkee. It was, however, removed (server issues maybe?). After searching a lot, I finally got hold of a Google Buzz post, which had a copy of the same- but you never know when it might be deleted or the visibility shrunk. So I decided to put it up in my blog so that it's not lost- at least till doomsday. Yet again, comment if you want something added.

Alpahar -/ Al-paa-haar -/ noun -/ Place opp to library where you sit (after bunking the class) to have bun-samosa, pakoda and chai

Bakchod -/ bak-Chod -/ noun -/ (vulgar) -/ A worthless person or thing.

Backchodi -/ bak-cho-dee -/ verb -/ (vulgar) -/ gossips of no use.

Bakar -/ bak-Ar -/ verb -/ gossips in general

Bandi -/ bun-dee -/ noun -/ A non-male. A rare species in IIT.

Bond -/ Bon-nd -/ noun -/ A person who is good at something.

Bustea -/ bus-T -/ noun -/ burger and maggi with chai at bus stand in night-out, usually between 2am-5am.

BTP -/ abbr- / Full Form: B.Tech. Project. A necessary endeavour taken up (in some cases given even if not desired) by students in the last year of their journey to B.Tech.

Chapai -/ Cha-paa-e -/ verb -/ copying (specially assignments). eg. Tut de be, chapna h.

Chapo -/ chaa-po -/ noun -/ treat.

Chaggi -/ cha-Gee -/ noun,adj -/ A person whose CG is around 6.something. similarly there are satti, atthi, nehli etc but most famous is chaggi.

Cogni -/ Ko-ga-nee -/ noun -/ stands for technical festival Cognizance

Cola-Sikanji -/ Kola-See-Kan-Jee -/ noun -/ Lemon Water (Nimbu Pani) where water is replaced by coke.

CC -/ See-See -/ noun -/ refers to Cyber Cafe of hostel and also to Main Computer Center

CG -/ See-G -/ noun -/ stands for CGPA (Cummulative Grade Point Average)

CL -/ see-el -/ noun. -/ short for Civil Lines. The main market of roorkee, can also be used for Central Library or Computer Lab, based on whom you are talking to :)

Despo -/ day-spo -/ adj -/ short for desperate. Applies for a typical IITian (especially males). One could be a despo for money, food or bandi (Refer bandi)

End-sem -/ noun -/ The mother of all exams, that happens at the end of the sem. This exam carries a large weightage in the grades, so even non-ghissus pay attention to it.

Enthu -/ enthu -/ verb -/ Enthusiastic. Enthuh bandhe me.

Faadu -/ faa-Du -/ adj -/ a big achievement. Eg. Faadu kaam kiya h, faadu banda h wo.

Farra -/ Fa-Raa -/ noun -/ A small piece of paper with lots of things written on it in micro size font, used in exams to cheat.

Gaon -/ ga-oun -/ noun -/ Area where Rajendra, Cautley and Ganga bhawans are located. This area is far from main campus area (departments, library etc) so that area is known as gaon.

Ghissai -/ Ghee-sai -/ verb -/ studying alot

Ghissu -/ Ghee-su -/ noun -/ A person who does ghissai all the time.eg. Ghissu log exam ke time bahut kaam aate hain!

Jugaad -/ ju-gaadh -/ verb, noun -/ Manage with difficulty to (in general) get something. Eg. "Kuch to jugaad lagate hain" "Jugaad be"

Junta -/ jan-Taa -/ noun -/ More than one person.

KLPD -/ abbr -/ Full form: Khade Lund Pe Danda. A situation where you think something awesome is going to happen, but it either doesn't happen or something totally opposite happens.

Lassu -/ La-Soo -/ noun -/ Lassu is a person who runs after girls.

LBS -/ Al-Bee-As -/ noun -/ stands for Lal-Bahadur-Shastri Stadium, It is the biggest stadium of campus.

Matka -/mutt-Kaa -/ noun -/ MTech student (also, matki) or for any general PG

Mid-sem-break -/ noun-/ A time of wonderful seven holidays during the sem. Students utilize this time to rejuvenate from the torture they have endured and get ready for what is to come next.

Net -/noun -/ the source of all information that students need for completing their tut, projects and even for extra-curricular activities, like watching pondies, movies and also downloading games.

NPG -/ abbr -/ Full Form: NON Productive Ghissu(refer Ghissu), someone who studies a lot, but cant convert that into something worthwhile, not even grades.

Phodu -/ Pho-Doo -/ noun-/ a person who has done something really well, syn. Bond can also spelled as fodu

PJ -/ noun -/ poor joke, something that the joke cracker thinks is good but actually is so bad that the listeners laugh at the jokemaker than the joke.

Pondy -/ pon-Dee -/ noun -/ a video depicting sexual acts, hardcore (XXX or upwards) or soft-core (up to XX)

Room-Baap -/ Rum-Baap -/ noun -/ Room baap is the senior who stayed in the same room in which you are staying in 1st year.

RS -/ abbr -/ Full Form: Research Scholar. These creatures are supposed to be doing research (and some of them even do!) and to know a lot about the advanced stuff, but ask them a simple question of the undergrad stuff and all you get is a blank stare.

SB -/ As-Bee -/ noun -/ Refers to Sarojini Bhawan, Can find lassus (Refer Lassu) in nearby areas.

Sem -/ Say-Em -/ noun -/ Semester, not exactly a period of 6 months but the time from start to finish of one educational session

SURA -/ Soo-Ra -/ noun -/ stands for: Student Undergraduate Research Award. An award given to projects taken up by the students during summers, usually in the 2nd year of their graduation.

TS -/ abbr -/ Full Form: Test Series. A chain of gruesome tests of various torturous subjects that the students are taking through the sem. Usually, they account for a small portion of the grade, so students don't pay as much attention

Tut -/ t-Yout -/ noun -/ Tutorial, a document that contained a set of questions given by professors to students every week as a part of their student torture program. eg. Yaar ye math ka tut to sala samajh mein nahi aa raha.

UC -/ you-see -/ noun. -/ short for university canteen. Eg. Chal yaar bhukh lagi h, uc me pakode khat h

UG -/ you-Gee -/ noun -/ UG is refer to Under Graduate Club where students go and play pool, billiards, foosball etc.

Ulti -/ al-tea -/ adj -/ short for ultimate. Eg. ulti foda h usne.

Updates from comments...

CA -/ abbr -/ short for C**t Allowance, eg. abe bandi h na ca mil gaya hoga.

Convo -/ con-vo -/ noun -/ stands for convocation.

Dulla -/ do-laa -/ noun -/ dual degree students.

Fokki -/ Fo-key -/ adj -/ ultimate, smart. Eg. Bandhe ne foki kaam kiya h be.

GPL -/abbr -/ short for Gand Pe Laat.

Haddu -/ Ha-D0 -/ noun -/ students from hyderabad (sometimes in general south india)

Kholu -/ kho-Loo -/ noun -/ opener. Eg. Electrical ka kholu kaun h?

LP -/ abbr -/ short for L**d penalty.

Nesci -/ Nay-skii -/ noun -/ Nescafe of the campus.

Poly -/ Po-Lee -/ verb -/ stands for politics. Apne dept me bahut polychalti h yaar.

Thomso -/ thom-so -/ noun -/ Cult fest of institute. Eg. Is baar thomso me kaun aa raha h?

Q2 Places of interest in IIT-Roorkee

PLACES OF INTEREST

Alpahar:

Alpahar is the oldest eatery on campus, rumored to have been here for nearly half a century. Last year in mid November, Alpahar was shifted from the heart of the campus to its present location near Khosla International House. Despite its remote location, Alpahar attracts a majority of students during the daytime. With the smell of hot simmering doodh-patti (that's tea with extra milk worth Rs.2), the aloo pakoras and samosas in the morning, Alpahar turns out to be a brilliant place for morning breakfast and ensuing bakar sessions of afternoon.

Nesci: (previously known as Bru(previously known as Nesci(previously known as....)))

This open space next to Student's Club and PNB is the official hangout place for R junta, which does not know what to do with the cursed one hour breaks between classes. With a rather uncomfortable seating arrangement allowing no privacy for the couples, Nesci is perfect for passing time sipping coffee or iced tea with friends. The delicacies are not exclusive but the quality of food gets compensated by the friendly atmosphere.

Student's Club:

A 40 inch LCD television combined with huge space for pool, billiards and snooker tables, this is the best hangout place in IITR campus. With sofas and separate rooms to accommodate the activities of the literary section, this place houses table tennis, foosball, carrom and chess tables for the R junta. The open space in front of the club serves as the most happening place during the time of Cognizance or Thomso. Events of Lohri celebration, flash-mobs and street plays take place here.

MAC (Multi Activity Center):

Inaugurated on the day of Obama's visit to India last year (obviously not by him), MAC was intended to be the melting pot of cultural activities in IITR. This latest addition to gaon's imposing skyline has been the source of numerous tantalizing rumors in the five years that it took to build as well as debates over its not so central location. Nevertheless, MAC houses an ostentatious auditorium, rooms for indoor games, eateries, dedicated rooms for sections of the cultural council and a clumsily built open air theatre. We have also had a heavily subsidised Cafe Coffee Day outlet and an Amul Parlour in need of heavy subsidy as recent additions. MAC is the reason behind growing property prices in the gaon, although it is rumored to be jinxed by thousands of pass outs who hoped it would be complete before they graduate.

Hobbies club:

Hidden in a discreet crevice behind the students club, the hobbies club houses the SDSLabs, astronomy, electronics and fine arts sections. It also caters to a number of miscellaneous fetishes like philately, numismatics and gardening. The hobbies club hosts an annual exhibition that goes by the name of Shristi in the month of March. It can be easily spotted by the presence of sculptures in highly inappropriate positions, and miniature dinosaur statuettes on its front lawn.

CBRI:

For quite some time, the location of this canteen was a closely guarded secret of the inhabitants of Sarojini Bhawan. The canteen is situated in the vicinity of Jawahar Bhawan. However, over the years, its popularity has increased tremendously. Nowadays it attracts a lot of wandering souls who crave the bite of crisp Aloo Parathas and vegetable Maggi in the evening. The Maggi served by the canteen is delicious and the friendly attitude of the uncle running this place puts it leagues ahead of the hostel canteens. There's only one downside though: it is frequented by couples because of its proximity to the girls' hostels. So if you're single, eating at this place might act as a silent reminder of your lonely, miserable existence.

The Canal and Solani Aqueduct:

Although everyone signs the undertaking form which promises that they won't be going anywhere near the canal or aqueduct, there's hardly any undergrad who hasn't visited it once. The aqueduct is a marvel of civil engineering. Located approximately 2 kms from the Century Gate, the place is worth the pain of waking up in the morning for sunrise. The sound of white water flowing through the duct is a melody in itself. Unarguably the best place in Roorkee to spend time without any disturbance.

Neelam(Movie Theatre?)

About 800m from the campus, there exists the only cinema hall (albeit barely) inside Roorkee. It usually screens B-grade Bollywood movies, whose names can put even Kanti Shah (of Fauji Fauj Mein, Padosi Mauj Mein fame) to start looking for a place to hide his embarrassed face. There are exceptions to this rule, of course. Last time your authors visited this theatre passed this theatre on their way to a psychology conference, Revolver Rani was premiering here. But then come to think of it, RR isn't much different from a B-grade Bollywood fiasco either. The theatre is cheap. Much cheaper than going to Haridwar or Dehradun to watch a movie. While we would not recommend this as a place to go when you need to catch a Nolan or Tarantino masterpiece (supposing it showed one and assuming you are an adult), you should try to visit this at least once during your stay.

RR Cinemas

The only multiplex in Roorkee, RR is about 4.5 kms or a 10 min journey from the campus. A recent phenomenon in Roorkee, RR desperately tries to satiate one's desires to watch their favourite Bollywood actor's new release or Hollywood thrillers in a comfortable setting at reasonable rates (still cheaper than Haridwar or Dehradun). The 3D quality is decent and you will also find some restaurants and cafes inside the hall. Recommended if you wish to go out for a movie with campus groups or peers. You may also be able to find solace in this place during weekends or post exams. An emerging favourite destination among IITR junta.

Cafe Coffee Day

All speculation surrounding Michelin Star rated restaurants coming to R-land was put to an anticlimactic end last year with a heavily subsidized Cafe Coffee Day setting up shop in IITR. Inhabitants in pursuit of the high life were in complete awe of the branded 15-rupee samosa lined up in the shelves along with other supposedly cheap drinks on offer. However, the bubble burst soon and CCD is now frequented by couples and junta aiming to carry out intellectual conversations in the traditional coffee shop setting.

Tinkering Lab

Just as the name suggests, this place is designed for IITR junta to tinker with ideas. Developed in association with Oxigen, with the grand vision of producing 100 entrepreneurs from the campus, the tinkering lab was inaugurated by Shri. Manohar Parrikar, Hon Defence minister on 22nd May 2016. In future, you are definitely going to witness fortune 500 companies talking about their origins in this lab(if you don't know, there is a garage in which everything starts). Who knows you may even become the one who would do the talking. The lab houses top notch facilities for product design and development and also for providing incubation. Got any cool ideas? Well this place is meant for you.

What are the placement opportunities at IITR??

Things change drastically when you enter the final year. Here for the final year students, the months of October, November and December are taken over by the placement season.

The Placement Season

This season, among all the seasons of IITR can be identified as the time of year when you start noticing the final year students heading towards the Placement Complex, dressed in borrowed suits. Like winters in Roorkee, placements go on for a very long time. Stating the obvious, placement and job availability are probably the only two things many JEE qualified students (that means you) consider before filling the form. So the writers of the guide, instead of criticising the underlying drawbacks of our existing education system, herd mentality of people and ultimately the overpopulation of our country, will enlighten you about the process of placement. Right now you need to know about 4 things:

1. It begins and ends in fourth year.
2. It is highly unpredictable.
3. Your CG, irrespective of the department, matters.
4. Your starting job (which you'll probably get after 4 (or 5) years from now) is not the thing you should be worried about right now.

The nature of companies who come to IITR for placements is quite diverse. We get software giants like Microsoft, Oracle, Google and Facebook, investment banks like Goldman Sachs and Morgan Stanley, oil and mining companies of Schlumberger, Shell and Rio Tinto and numerous other firms who give decent jobs in the domain of software, product development, finance and the core sectors of civil, mechanical and electrical engineering.

Placement Complex

This is probably one of the most mysterious places of IITR where unsuspecting students find themselves at the end of their stay, dressed in, as already mentioned, borrowed suits. This place is so complex, that even its name says so. On the outset, it looks like a usual building: with walls, windows and doors. However horror awaits the seniors inside as they are grilled on questions about science, technology and business, and then offered two biros: a red one and a blue one. Regardless of which one they pick, they're ultimately rejected on grounds of having a below par GPA. The building also houses the placement cell and offices for TIEDA and EDC.

What are the sports facilities at IITR?

IITR has incontestably one of the best sports facilities amongst all other IITs as you might have already heard. What you might not have heard is that it also has a highly effective administration that functions to make sure that these facilities are best made use of. It is so because the latter is doubtful.

The sorting

Right after your orientation week, you will be torn between three different choices: NSO, NCC and NSS. Rest assured, they don't use talkative hats to sort you. Plain old chits get the job done for NCC and NSS. There are, however, trials for the selection into NSO (that's short for National Sports Organization) where you will have a large number of sports to choose from. While NSO students usually crib about exhaustive practise sessions which involve running, and some more running; follow the regime earnestly and rest assured- you will not regret the improvement in your fitness at the end of the year.

(Crack Sheet: Getting selected for Cricket is tough; it usually witnesses a large number of participants. Weightlifting and squash are relatively easier to crack. If, however, you have no particular preference for any sport and are choosing NSO for lack of options- Basketball (though again, tough to get in) is where all the hot chicks go.)

Inter-IIT

The Inter IIT is the Olympics of the IIT fraternity. It is more or less the ultimate test of your dedication to the sports field. Getting selected in the team is incredibly tough (that applies for all the sports- maybe except weightlifting) as you need to compete with other athletes, irrespective of your year or branch. The perks of triumphing at this scale are very high. While winning medals will not only help you during placements, it might make for a popular profile picture, and may even earn you a little on-campus fan following of your own.

Places of Interests

1) Lal Bahadur Shastri Stadium: LBS is accredited as our institute's only helipad cum athletic track cum cricket field cum jogging track. It shares a boundary with the basketball court and witnesses a surge in the number of students on the ground at about 6:30 every evening- which incidentally is just about when the basketball girls come for practice. It is widely believed that early in the morning NSO proficiency holders can be seen sweating it out on the LBS ground.

2) Olympic size swimming pool: In case you don't know how to swim, you can skip this part. The rest just need to know two things about the pool: It's big and it's out of use for the better part of the year (thanks to the everlasting winter/rainy season in R)

3) Football and Hockey fields: Two separate fields are dedicated to these two sports. We don't have much to say about either, as these are not very different from regular fields. But since we need to fill this space with something interesting, here's a fun fact: India does not have any national sport. Hockey being it, is just a widely circulated myth.

4) Institute Gym: The gym is the second most underutilized place in IIT R, right after the Ravindra Mess Lounge. Equipped with the latest body conditioning contraptions, it is open to anyone who is particularly fond of Eminem. Incidentally, the most popular song here is 'Lose Yourself'. (We are more of the opinion that Eminem should improve upon his original song and rename it 'Lose your Flab')

The gym is most occupied at the beginning of every fresh semester. Gradually as days pass and motivation levels drop like the charts of a Salman Khan starrer, the people continuing the gym usually end up being one of two kinds: those who form part of the weight-lifting team of IITR or those who wish to make it to the same.

The sports facilities also include courts for -

- o Basketball
- o Lawn Tennis
- o Squash
- o Badminton
- o Volleyball
- o Table Tennis

There is also a boating club somewhere in the woods near the Solani Aqueduct. It's something that is unique about IITR but since we are mentioning it in the end, you can assume that its current state is not exactly great.

What is the SAC? How does it function, and who are its representatives? Beyond a few fuzzy beliefs, an unnervingly large section of the student population has little, if any answer to these questions. There is a temptation to blame many of the issues associated with the SAC on so-called "poly" and a flawed election system, an assumption which does hold true, but only partially in light of the actual powers of the SAC.

In this piece, the second of a series, Watch Out! takes a look at the reasons behind this perception and at the reforms which have been announced to how the junta elects its representatives.

In a recent talk with Vamshi Chaudhary, ex-president of the SAC, he explains "The election system of the SAC was designed to take a leaf out of the Indian election system. The students elect representatives from their representative constituencies, each having 70-80 voters. These councillors subsequently elect a cabinet, known in IITR as the SAC-2." The SAC-2 in its erstwhile form comprised of 117 post holders, who were meant to be the voice of the student body.

The comparison takes a worrying turn at this point. IITR's student council is hobbled by flaws inherent in the present election process. Dr. D.K Nauriyal, the Dean of Students Welfare and an advocate of the reforms, spoke at length of the regional and communal biases that become emblematic of electoral politics every year. In an interview with Watch Out!, he said, "We were told that there are regional biases and elections are organized in such a way that students form groups based on states, one of these groups gets elected. And then they select one among them to be the president. There were huge regional influences. There were cases of intimidation as well. Students being told either they vote for them, or not dare to come out of the room.

Needless to say, the factionalism involved during the election process makes for an uninspiring Council. This is reflected in the form of poor attendance during meetings. In the very meeting where the reforms were proposed, the attendance was a measly 46 out of a 117 members. With such a break in the election procedure, the Council hitherto had been inefficient in catering to the needs of the IITR junta. In response, the administration decided to revamp the political system starting this year. The new senate will have a higher number of directly elected representatives. The former system of SAC-1 internally electing for SAC-2 has dissolved, in lieu of which institute level positions will now be elected by the entire student body. Doing away with most of the earlier established positions, the new system is akin to what is in place in other IITs.

At the Bhawan level we now have six positions, discarding the constituency system with new positions complementing the new Bhawan allotment policy intended to build a Bhawan culture. The six posts are as follows -

- Mess secretary – Head of the mess council.
- Sports secretary – In-charge of the sports facilities of the Bhawan. Will oversee Intra and Inter Bhawan level sports events.
- Social and Cultural secretary – Manager of cultural events at the Bhawan level. Responsible for the Bhawan Day events.
- Technical Secretary – Co-coordinator of the student mentorship structure at the Bhawan level.
- Maintenance Secretary I & II – Responsible for the cleanliness and overall maintenance of Bhawan facilities.

Along with the wardens, the elected students constitute the Bhawan Council. A member secretary responsible for the convening of meetings of Bhawan council will be nominated out of the elected Bhawan council members.

At the institute level, there are seven positions out of which five will be elected and two nominated-

- General Secretary (GS) Finance – Treasurer for the SAC.
- GS Academic Affairs(UG and PG) - Will be responsible for academic and course work related issues. UG and PG students elect their separate representatives.
- GS Technical Affairs – Student representative for various technical groups and projects in the institute. Will also function as the SAC representative in the Cognizance organising committee.
- GS Alumni Affairs – Focal point for networking with alumni.

- GS Cultural Affairs – General Secretary of the Cultural Council (nominated by the CultSoc). Student representative of the Cultural Council in SAC. Will also function as SAC representative in Thomso organising committee.
 - GS Sports Affairs – General Secretary of the Sports Council (nominated by the Sports Council). SAC representative in inter-IIT sports.
- The aforementioned students will constitute the executive committee of SAC and will nominate one among themselves to be the General Secretary of SAC.

Architecture in IITR

Buildings, mansions, forts, towers, castles, dreams, we make em all. IIT Roorkee offers the country's best course in B. Arch. Don't believe us? The architectural grandeur of the Thomason Building will surely convince you. The funky, night owls carrying round barrels around their shoulders can be seen wandering at any given time around the prettiest department building in town, i.e. the Department of Architecture and Planning. These creatures are victims, ahem, students of Architecture and are the most sought-after roommates courtesy of their assignments which ask them to redesign their room every semester.

Courses and branches offered by architecture department

The study of architecture requires one to be a skilled generalist, a jack of all trades, who can combine knowledge from diverse fields and translate it into thoughtful spaces which speak to the people. The course is therefore designed to expose one to a vast variety of topics. The constituent courses of the bachelor's degree (as ascribed by the Council of Architecture) are centred around "Architectural Design", which will be found in all semesters except 1-1, 4-2 and 5-2. In addition to studying core architectural concepts, history, construction technologies and various allied subjects like interior and landscape design, some subjects from the civil, mechanical and electrical department are taught too. The course as a whole is rather challenging. It involves the longest contact hours of all courses and a great load of assignments (resulting in many late nights), which eventually decrease. Good grades call for a great deal of consistency in submissions.

Features

Educational trips are also a crucial part of the curriculum and you can expect to go on some nice trips throughout the course. The department has numerous labs dedicated to different areas of research and house some of the most advanced equipment which can be used by the students. The faculty of the department conduct high quality research in many fields ranging from embodied energy and accessibility to sustainability and computer applications in the field of architecture. Interested students can easily approach them and undertake research projects or work with them as research interns.

Future Prospects, Internships and Placements in architecture

In core architecture, there are many fields to choose from, like urban planning, interior design, landscape design etc. and students may choose to specialize in these areas. A program called SURA (Summer Undergraduate Research Awards) is in place (which has a somewhat drawn-out application process). For architecture students, an additional opportunity lies in the form of the CBRI (Central Building Research Institute), which, although an autonomous body, abuts our campus and welcomes IITR students wishing to undertake research. In the 4th year, students have to go through a mandatory 6 months internship, and aside from this many also go for summer internships according to their choice. The department also offers a student exchange program to HSLU, Switzerland for students in 4th year. Other architectural colleges do not have placements, or any sort of arrangements wherein graduates can find firms to employ them. At IITR, students can find the best core placements possible, however they opt otherwise. Architecture graduates can get non-core jobs provided they are meritorious. Some companies may selectively not open to architecture students for interns and placements, but opportunities are still ample.

Biosciences and Bioengineering branch in IITR

The department of Biosciences and Bioengineering is perhaps one of the cleanest places of IITR. That's primarily because it's got a relatively new building. An urban legend says that the previous building caught fire and was abandoned. There are many theories surrounding the cause of fire but most of them are absurd at best. A typical biotech undergrad usually plans their industrial trip for two whole years. They spend the next two years posting the 4200 photos they took while on the trip and reminiscing about the trip to anyone who'll listen.

Courser and branches by bioscience and bioengineering

The subjects can be broadly classified into two types, research based and engineering-based. The former consists of Genetic Engineering, Cell and Microbiology, Immunotechnology, Biochemistry and Biophysics, Microbial Technology, Animal and Plant Technology, IPR and Bioethics, Nano-biotechnology, Food Technology and Drug Design; while the latter includes Bioreactor design, Fluid Mechanics, Bio-separation techniques, Principles of Bioreaction Engineering, and Enzyme Technology. There are countless research fields in this department. Broadly these fields could be related to Cancer Research, Stem Cell Research, Infectious Diseases, Immunological Studies, Drug Design, Neuroscience, Evolutionary Biology, and Biomedical Engineering.

Features of bioscience and bioengineering

The most salient feature of the branch, apart from the glitzy kinda-new building and research labs as mentioned above, is the limited class strength as compared to the other branches. This facilitates interaction amongst each other, and with the faculty members. Most of the coursework is focused on research-based areas in biological sciences. There are paper presentation and poster presentation competitions and global conferences related to this discipline. Undergraduate students don't generally go for these unless they have been involved in some active research alongside their coursework and the lab heads (professors) encourage them to take part and even provide suitable support (finances, permissions etc.).

Future Prospects, Internships and Placements in bioscience and bioengineering

Although the job opportunities in the core sector are limited after B-Tech, the scope widens immensely after getting a specialization. You can choose between policymaking in regulatory bodies (UN, FDA, FAO), jobs as technical heads in the biotech/pharmaceutical industry, and engineers in biomedical instrumentation. Engineering-based internships are offered by pharmaceutical companies like Biocon, Cipla, Ranbaxy, and Biozeen. Some popular internship programs in the global scenario are Mitacs-Globalink (Canada), DAAD-WISE (Germany), VISERA (Vanderbilt University, US), Khorana Scholarship, OIST (Okinawa Institute, Japan), Duke University (US) and University of Queensland (Australia). Apart from these, due to the ample flow of funds in biosciences, many professors accept international interns for a period of 2-3 months for summer/winter interns in their labs. TIFR, IISc, CMBL, CBRI, CDRI, etc. are some of the research facilities within India which provide excellent research opportunities. iGEM is a worldwide synthetic biology competition that undergrad students look forward to participating in

Chemical Engineering

The department of chemical engineering is by far the most notorious department at IITR. The building in itself looks like a remnant of older and simpler times. Undergrads of this course like to refer to themselves as chemi-cools even though nobody else agrees with them

Courses and syllabus available in chemical engineering

Chemical Engineering, although hinting at an obvious and close relevance to Chemistry by its very name, bears no relation to it other than sharing its basic concepts. A clearer answer to what Chemical Engineering is, lies at the end of a four-year-long journey. Like in most branches, it turns out that the core subjects contribute a major chunk to the grades. Thus, a list of the important courses in Chemical Engineering go like this: Engineering Management, Chemical Reaction Engineering, Transport Phenomena, Chemical Engineering Thermodynamics, Chemical Process Principles, Chemical Engineering Equipment Design, Fluid Mechanics and Mechanical Operations. The last two on the list, though not counted as 'core' subjects, complete the curriculum and help in understanding the fundamentals in this field of engineering.

Features of chemical engineer

The workload, to a great deal, depends on an individual's deal with the clock. Speaking in terms of contact hours, a chemical engineer works about 26 hours a week. Generally, one lab based course engages you every semester. Some of the many diverse areas open to research for a chemical engineer are Thermodynamics and Molecular Computations, Catalysis and Reaction Engineering, Systems Design, and Engineering, Transport Processes, Biological Engineering, Materials, Polymers, Surfaces and Structures, and Energy and Environmental Engineering

Future Prospects, Internships and Placements

The industrial heavyweights like ITC, Schlumberger, Shell, RB and Reliance offers the best internship and placement opportunities. The core followers find major employers in gas and oil extraction, oil refining, nuclear and power generation, and other process industries such as pharmaceuticals. A good number is absorbed by industries such as food & drinks, toiletries, pulp, and paper, polymer, and textile. Certain job profiles (apart from a Chemical Engineer, of course) that relate directly in this field are Energy Engineer, Petroleum Engineer, Product/Process Development Scientist, Analytical Chemist, Energy Manager, Manufacturing Engineer, Materials Engineer, Mining Engineer, Production Manager, and Quality Manager, among others. The professors eagerly back students who are willing to take up innovative projects. Available options include taking up simple/fun projects or experiments, such as testing the efficiency of pumping and motor systems installed in the labs, or studying the performance of air conditioning or condenser systems in the department buildings.

Civil Engineering

In the beginning when the Universe was created, nothing happened for a few billion years. Nothing besides the cataclysmic explosion resulting in a hot dense Fireball expanding light years into nothingness and ultimately condensing to form the stars, planets and Starbucks outlets. Sometime in between came the Thomason College of Civil Engineering. We believe nothing speaks as much for a department as it being the sole reason for its institute's conception.

Courses and Syllabus in civil engineering

Civil engineering can be divided into various sub-disciplines like structural engineering, environmental engineering, transportation engineering, geotechnical engineering, water resources engineering, wastewater engineering, and construction surveying, etc. Over the course of four years, an equal emphasis is given to each of these sub-disciplines, and a basic introduction is offered to the less important ones. The timetable is slightly on the hectic side but with a tad bit of judgment, students manage to effectively juggle their social life and academics.

Features of a civil engineer

The department of Civil engineering, IIT Roorkee, being the oldest and largest in the country, has over the years produced some of the finest engineers accredited with playing a significant role in various civil engineering projects in India- The Ganga Canal, The Bhakra Nangal Dam, the Indira Gandhi Canal, the construction of Chandigarh, to name a few. Over the years, the department has produced numerous chairmen of the Indian Railways, CPWD, Airport Authority of India, Delhi Metro Rail Corporation, and a few entrepreneurial geniuses such as Mr. Jay Prakash Gaur (JP Associates) and Mr. Rahul Gupta (Rays Experts)

Future Prospects, Internships and Placements in civil engineering

The faculty of the department conduct high-quality research in diverse fields ranging from building science and technology, structural engineering, and geotechnical engineering to hydraulics and environmental engineering. The professors are easily approachable and supportive to undergrad students who are willing to undertake research projects. The students of the department have to undergo a mandatory 6-week long internship after the completion of their third year. The students have the option of doing an industry-based internship to gain firsthand knowledge in the construction industry or pursuing a research internship through DAAD, MITACS, or SURA at various universities and labs around the world. The students of the department get placed in some of the most reputed construction companies in the nation like L&T and Shapoorji Pallonji to name a few. However, placements are not limited to construction firms and students holding interests in other fields may opt for analytical jobs in companies such as Flipkart, Snapdeal, Housing.com, and ICICI Lombard.\

Guide to Branches The ultimate guide to choosing a perfect branch The official media body of IITR Watch Out! The Ultimate Guide to choosing the perfect branch. Created with the aim to help you take one of the most difficult decisions of your life, a very precise, factual and painstakingly devised guide to the branches offered to Undergraduate students joining IIT Roorkee P.S. We've taken the liberty of adding our own tidbits and a few spoonfuls of on-ground reality apart from the academics of it all. Do consume with a pinch of salt ! Contents Architecture Biosciences and Bioengineering Chemical Engineering Civil Engineering Computer Science and Engineering Electrical Engineering Electronics and Communication Engineering Engineering Physics Geological and Geophysical Technology Int. MS Chemistry Int. MS Economics Int. MS Physics Mathematics and Computing Mechanical Engineering Metallurgy and Materials Engineering Production and Industrial Engineering 3 5 6 7 8 10 11 12 14 15 16 18 20 21 23 24 The study of architecture requires one to be a skilled generalist, a jack of all trades, who can combine knowledge from diverse fields and translate it into thoughtful spaces which speak to the people. The course is therefore designed to expose one to a vast variety of topics. The constituent courses of the bachelor's degree (as ascribed by the Council of Architecture) are centred around "Architectural Design", which will be found in all semesters except 1-1, 4-2 and 5-2. In addition to studying core architectural concepts, history, construction technologies and various allied subjects like interior and landscape design, some subjects from the civil, mechanical and electrical department are taught too. The course as a whole is rather challenging. It involves the longest contact hours of all courses and a great load of assignments (resulting in many late nights), which eventually decrease. Good grades call for a great deal of consistency in submissions. Courses and Syllabus Architecture Buildings, mansions, forts, towers, castles, dreams, we make em all. IIT Roorkee offers the country's best course in B. Arch. Don't believe us? The architectural grandeur of the Thomason Building will surely convince you. The funky, night owls carrying round barrels around their shoulders can be seen wandering at any given time around the prettiest department building in town, i.e. the Department of Architecture and Planning. These creatures are victims, ahem, students of Architecture and are the most sought-after roommates courtesy of their assignments which ask them to redesign their room every semester. Educational trips are also a crucial part of the curriculum and you can expect to go on some nice trips throughout the course. The department has numerous labs dedicated to different areas of research and house some of the most advanced equipment which can be used by the students. The faculty of the department conduct high quality research in many fields ranging from embodied energy and accessibility to sustainability and computer applications in the field of architecture. Interested students can easily approach them and undertake research projects or work with them as research interns. Features In core architecture, there are many fields to choose from, like urban planning, interior design, landscape design etc. and students may choose to specialize in these areas. A program called SURA (Summer Undergraduate Research Awards) is in

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However, placements are not limited to construction firms and students holding interests in other fields may opt for analytical jobs in companies such as Flipkart, Snapdeal, Housing.com, and ICICI Lombard. Courses and Syllabus 8 Computer Science and Engineering The main purpose of the existence of this department is to belittle its adjoining department by offering common courses to the ECE and CS students which then the CS students end up nailing. Apart from this, it offers a couple of programming courses, AI-r conditioned labs to play Minesweeper on and a sprawling cycle stand that takes pride in its ancient history. Every once in a while, a couple of CS grads get crore plus offers and the news does the rounds in the dailies. Apart from that, there isn't much that goes on round the year. The branch comprises two main

components - Computer Science and Computer Engineering. Computer science deals with the theoretical foundations of information and computation, along with practical techniques for the implementation and application of these foundations. In other words, it is the systematic study of algorithmic methods for representing and transforming information, including their theory, design, implementation, application, and efficiency. The roots of computer science extend deeply into mathematics. Computer Engineering, on the other hand, typically focuses on computer hardware and software. It is, in a nutshell, an integration of computer science and electrical engineering. The curriculum covers both aspects. Subjects like Data Structures and Algorithms, Discrete Structures, Computer Architecture, Operating Systems, and Networking, etc. are vital for a complete understanding of the branch. The writers of the guide would advise the freshmen to master the courses on Programming since almost the entire CSE curriculum depends on it. Features There are wide areas of research that are open for any person who studies CS: Machine Learning (including Subdomains of AI, Robotics, Natural Language Processing), Network Security, Compilers, Cryptography, Mobile Operating Systems, Real-time OSs, Cloud and Distributed Computing, Discrete Mathematics, Programming Languages, Data Mining, Database Management Systems, to name a few. In addition to these, there's the field of Data Analytics, incorporating the concepts of DBMS, Probability, and Statistics, famously known as Big Data. Computer Science, compared to the other branches of engineering, is a relatively newer field of study. The exponential burst came with the advent of corporate giants like Apple and Microsoft. Contrary to popular belief, its relevance increases day by day. CS grads who know their basics are highly in demand. But, the catch here is precision. You cannot fool or wriggle your way out of any situation. As an engineer, you need to understand and deal with the realities of the problem and find out a viable solution. That takes a lot of study and practice. A job in CSE is only and only dependent upon your ability to find and solve problems. In the industry, the job descriptions include Software Engineers, Data Analysts, System Programmers, Software Program Managers, and Software Architects. Additionally, if you pursue higher studies (M.S. or Ph.D.), you are also entitled to jobs in Universities and Research Teams in different Companies and organisations. Students apply for internships in both industry and academia. During interviews, companies mainly test your ability to code under dire circumstances along with your command over basic Algorithms and Data Structures. The mean salary for CS undergrads in 2021 was around 36 lakhs per annum. The average package is however, an unhelpful quantity, owing to the huge window in the pay package. Competitive Programming is the most celebrated sport in the CS community (not to forget the Cyber Security or Capture the Flag (CTF) contests, and the Data Science challenges which have been gaining popularity of late). Future Prospects, Internships and Placements

9 Electrical Engineering The department of Electrical Engineering is strategically at the worst location in IITR. Strategically, because : a) It is far from everything of vital importance(SAC and Georgia) and sits directly in front of the Director's house. b) If an interdepartmental war breaks out, Electrical department will be hammered by the surrounding superpowers of Mechanical, Civil and ECE departments. The undergrads of this branch are constantly exposed to age- old electrical machines that make funny sounds when they run. They are also at the receiving ends of requests by fellow bhawan inmates to repair their fans and geysers. Electrical engineering at IITR deals with the study and application of electricity, electronics, and electromagnetism in order to design, construct and maintain products, services, and information systems. The coursework is undoubtedly rigorous but with proper time management and smart decisions you can sail through most of them along with extracurricular activities. Core Electrical subjects include Signal Processing and Instrumentation, Control System Analysis, Communication Systems, Power Electronics, RF, and Microwaves. Apart from that, there are some courses from Computer Science Engineering and Electronics Engineering departments like C++, Microelectronics, etc. The concept of computing along with recent applications of computer-based systems in design, analysis, client operation of power systems, and maintaining quality and security are also included in the course. Courses and Syllabus Electrical Engineering graduates could prolong their education by specializing and doing research in fields like Power, Electronics and Drives, Power Systems, Electrical Machines, Control and Instrumentation, Applied Electronics, Embedded Systems, VLSI Design, etc. Many premier educational and research institutions regularly admit electrical engineers as graduate engineer trainees and Management Trainees to work on research projects. Research areas in the branch include Communication and Networking, Power Systems, Signal and Image Processing, Electromagnetics, etc. A good GPA along with a graduate degree from IIT should hold you in good stead while applying for jobs or higher studies. Features Future Prospects, Internships and Placements There is no dearth of job opportunities in the public or private sectors, such as Electricity Boards, Large Scale Industries, Manufacturing Plants, Power Corporations, Hydro-Electricity sector, etc. EE is a versatile branch where students, with some extra effort can expand their work area into Software, Core Electrical, Electronics as well as Non-Technical Profiles like consulting firms. Prominent companies which recruit Electrical Engineers from the college include: ABB, Bajaj International Private Ltd., Bharat Heavy Electricals Limited (BHEL), PGCIL, IOCL, Trident, Centre for Electronics Design and Technology, Crompton Greaves Limited (CGL), Siemens Ltd., Reliance power Ltd. and non-core companies like Goldman Sachs, Google, etc. And this is just the tip of the iceberg. 10 Electronics and Communication Engineering Situated precisely 46.5 degrees to the right of the ECE circle, this department boasts of many things other than their inappropriately shaped EC tower. The professors of the ECE department are characterised by their fearful, ruthless efficiency and an almost fanatical devotion to surprise quizzes. Since nobody expects their inquisition, the professors are known to declare surprise quizzes beforehand and then surprise the students by not taking any. Although some people say that this department exists only to be belittled by its adjoining department, this is a gross miscalculation as everyone knows that undergrads of this course are the most popular across all years. This branch of engineering develops integrated circuits and printed circuit boards that can be used in devices like mobiles, computers, tablets etc. Electronics engineers design, fabricate, maintain, supervise and manufacture electronic devices. The applications are far-reaching, ranging from communication and defence to the entertainment industry. In a nutshell, this branch deals with electronic devices and their software interfaces. The branch in itself is too vast to pick upon specific topics, but Digital logic design, Analog circuits, Signals and Systems, Engineering Electromagnetics, Communication Systems and Techniques, and Digital Signal Processing form the core of the branch. This branch is filled with subjects that require practice to excel at, like Signals and Systems, Electronic Network Theory, Digital Logic and Design to name a few. A strong background in Mathematics (mainly probability and statistics) would definitely help. Courses and Syllabus Different fields of research within the branch include Communication Systems, Signals and Image Processing, Microelectronics and VLSI, RF and Microwave Engineering. ECE also opens a whole new spectrum of interdisciplinary research fields, some of which include Mechatronics, Robotics, Biomedical Engineering etc. ECE offers a lot of opportunities to take up projects. Some small projects are included in the course structure. To take up a Departmental Project, the student can go and talk to any faculty member working on their field of interest to guide them on their project idea. Features Future Prospects, Internships and Placements With a Bachelor's degree in ECE, a student can apply for a job in any of these sectors – Telecommunication, Hardware Manufacturing, Software Engineering/IT, Research & Development, Home Appliance and VLSI design, Television Industry and also the Power sector. The branch offers plenty of internship opportunities. One can get an intern in any field ranging from software development to hardware engineering. One can also apply for internships abroad at various foreign universities. Apart from that, IITR has a number of student groups like the Electronics or Robotics section that give you an opportunity to work on different projects. For those interested in mechatronics or robotics, there are groups like Robocon, ASME, FSAE etc. that participate in various competitions. If working in big groups is not your cup of tea, then there are various competitions like Texas Instruments Innovation Challenge (TIIC), Microsoft Imagine Cup etc. in which you can participate in small teams. Courses and Syllabus 11 The structure of the course offered at Roorkee consists of a package of standard undergraduate physics courses designed to give a rudimentary understanding of basic and popular areas of physics research to the students. Studies deal with condensed matter physics, optics, nuclear physics and atmospheric and atomic physics. Recent changes have been reflected in new courses being floated, such as those in astrophysics, space technology, nano-systems, biophysics and quantum optics. However, this being an engineering course rather than a theoretical physics one, the traditional physics courses are bundled along with relevant courses from other disciplines such as those in Signals and Systems, Microprocessors and Peripheral Devices and Semiconductor Devices. Students have the option of deviating even further from the conventional by taking up elective courses such as Digital Image Processing, Data Structures, Remote Sensing, and Digital Signal Processing in

their third or fourth years. Engineering Physics Having previously shared a building with the Mathematics department, both these departments take in young geeks having a JEE rank that could not grant them civil or chemical. The entrance to the Physics department is also regarded by many as a wormhole hidden in plain sight: transporting unsuspecting entrants from a world of joy, togetherness, and masala patties to one of misery, practical records, and where you can't talk inside laboratories. Roorkee's physics department has traditionally held a theoretical stronghold. We have a number of experienced faculty specializing in nuclear physics, condensed matter physics, atmospheric science and atomic physics. The new faculty has brought in experience in fields such as astrophysics, biophysics and solar cell research. There is an upcoming cutting edge lab in quantum optics, supposed to be operational soon, that is expected to produce quality experimental research once functional. Students, especially undergraduates, have been known to participate in the department's research activities. Undergraduates are usually not expected to do research, but there have been instances of students collaborating and even taking the lead on projects leading to publications. The department is usually encouraging such initiatives on the student's part. Features Future Prospects, Internships and Placements Students, especially undergraduates, have ample opportunities to participate in active research during their summer and winter breaks. A number of summer fellowships have been awarded to students to work at prestigious universities and research institutions, both in India and abroad. Many senior students work with researchers of their choice over the breaks where they are exposed to an Courses and Syllabus 12 intensive research environment. They bring this experience home to the benefit of their peers. There have been participants in exchange programs like the WISE (DAAD Germany), the SN Bose Scholars Program (USA) the MITACS Globalink Program (Canada), and other fruitful exchanges with some European universities. A number of students also participate in the IAS fellowship program, where they are paired with a leading researcher at an Indian university or institute for the summer. It is also common for students to participate in summer and winter schools and camps in specialized topics. A testament to the efficacy of such programs has been the number of publications that have come out of these projects, assuring us that the students have been exposed to quality research. This experience is vital in helping the undergraduates make an informed choice when opting for graduate school. A great experience working in the lab, or on theoretical or numerical projects has persuaded a number of skeptical students to opt to go to graduate school. Opportunities for students after graduation are varied. On the physics front, a doctorate degree is a necessity if the students want to be researchers. With the right profile, a Roorkee graduate can make it to top schools in the US and Europe. Recent graduates have made it to top Ivy League schools, and best research groups in Europe. It is also common for students to get graduate positions at top Indian research institutes. The curious mix of courses taught at Roorkee prepares the graduating students for life ahead as a physics researcher. 13 Courses and Syllabus 14 Geological and Geophysical Technology You have probably come across a handful of branches prefixed 'geo' in your information brochure. You might have scurried over a few Google results and taken it as a bunch of alien subjects- magnetotellurics, plate tectonics, stratigraphy, volcanology, invariably dealing with Earth, its composition or development history devised to fulfill some inscrutable purpose. It is likely you have treated them with close-folded arms, and post allotments, cursed the universe for landing you in a branch that cuts you off from the fancy world of computers and electronics. The department is known to require less working hours and therefore, students have time to pursue other interests. Earth Science is the systematic study of Earth and its various processes- the formation of mountains, occurrences of earthquakes, all of it. Geoscience finds applications in a plethora of scientific fields, from reconstructing the history of Earth to mineral and oil explorations, from expounding the biogeochemical cycling of elements to contributing to environmental conservation. It forms a part of Planetary Science with geoscientists in agencies like NASA now evaluating the feasibility of civilizations in celestial bodies. The Department of Earth Sciences at IIT Roorkee offers five years of integrated courses in two disciplines: Geological Technology and Geophysical Technology. Geophysics, which employs a wide breadth of physical methods and principles to assess Earth's dynamics, has a greater mathematical edge and frequently incorporates non-core subjects. Geologists are adept at the direct interpretation of geological properties for their various applications. Features Quite likely, in both the branches, all interesting Physics, Chemistry and Maths that you have been accustomed to are held in abeyance for a while, easily surpassed by theoretical subjects. However, develop a slight taste and the branch has a lot to offer. Field trips are an integral component of the course curriculum. The niceties render the structure research-intensive, only racked up by the combat between rising energy demands and growing environmental concerns. The fields of research in the branch can be broadly classified into academic and industrial. Academic research deals with the core subjects like metamorphic, igneous petrology, fluid inclusion, and geochemistry. Industrial research, on the other hand, deals with the application of seismic, well logs, structural geology, sedimentary petrology and stratigraphy. Future Prospects, Internships and Placements Geoscientists play a key role in the oil and gas sector. With the increasing importance of coding on reservoir simulations, the application of artificial neural networks in predicting river fluxes and drainage, and the use of remote sensing and GIS for urban planning and study of distant planets, the field offers unlimited potential for growth. The pool of recruiters at IIT Roorkee includes some of the world's leading oilfield E&P services companies like Schlumberger, Royal Dutch Shell, Cairn India, and PSUs like ONGC. The initial pay scale varies from 7 to 21 lakhs per annum, depending upon the type of job you pursue. Field engineering jobs fill your pockets deeper than the data processing ones but equally emphasize physical fitness. The average salary figures can however be misleading, unduly surged up by a fraction of high-paid ones. Int. MS Chemistry This is a recently introduced branch that offers a thorough insight into chemistry through a 5 year program. The students take pride in making people realise that Chemistry and Chemical Engineering are two different department buildings. The people of these species can be found in the labs, frowning over a dozen test tubes, trying to distinguish between the characteristic ammonia smell and the rotten egg smell. Although being a significant part of every student's preparation before coming to the institute, this major branch of science mostly goes ignored by students pursuing their degrees here. This branch deals with subjects like Organic Chemistry, Kinetics, Advanced coordination chemistry and solid state chemistry. A complete perspective on chemistry can be developed through this course. This branch has introduced a lot of science courses that will help students to get in-depth flavors and essence of quantum, coordination, laboratory, surface, and analytical chemistry under three major domains of chemistry: organic, inorganic and physical chemistry. Various introductory courses like computer programming, environmental science, and psychology are also provided with the goal of helping students to explore other fields. Courses and Syllabus The Chemistry Department houses various Undergraduate and Masters' labs that house equipment ranging from simple titrations to advanced spectrometers. The faculty is active in several research areas including Organic Synthesis, Material Science, Polymer Chemistry and Spectroscopy. Features Future Prospects, Internships and Placements As with other branches, the categories are split into core and non-core. A few students from Masters get placed in core companies whilst many others prefer to undertake research in institutes in India and abroad. The faculty encourages undergraduate research and has notably recommended students to places like Georgia Tech and MIT in the past. 15 Int. MS Economics Introduced for the first time in 2021 batch, it is a BS-MS Course. It's total duration is 5 years but you can exit in 4 with a BS degree. The programme is unique as it would help the students to apply various economic principles, theories and models, and understand the technical foundations behind them. It is also the first UG course of humanities and social sciences department in IIT Roorkee. Courses and Syllabus The first year is like most other courses with core introductory courses and subjects like Introduction to Microeconomics and Macroeconomics, Basic Statistics and Mathematics including Mathematical Methods and Optimisation Techniques. The second year includes several courses building upon the first year like Advanced Microeconomics, Advanced Macroeconomics, Advanced Statistics and Developmental Economics. It also has courses from other departments like Electrical Sciences and Manufacturing processes. The second year also includes the study of Monetary Economics and Introduction to Econometric Theory. The third year includes Public Finance, Advanced Econometrics, International Economics among others along with one management and one open elective. Students have to also choose departmental electives. The 4th year introduces courses like Time Series Analysis, Environmental Economics and Financial Economics. There is a wide range of departmental and non-departmental electives to choose from in this year. In the fifth year, students have a few Economics courses with seminars and a Dissertation which is divided into 2 stages for the two different semesters. Features There is a robust research environment for Economics, that includes: Microeconomics, Macroeconomics, Behavioural Economics, Developmental Economics

and Banking and Finance, Energy Economics, Environmental Economics, Supply Chain among many other available opportunities Economics people are demanded in the industry for the ability to analyse the situations and predict the most certain future of an individual, a firm or a nation. This makes Economics a must needed subject of study. Career prospects Students after graduating have many roles to choose from the fields of research, finance and consulting, management, industrial organisation, government roles and many other. The roles like Data Analysts and Data Scientists are most famous amongst students as the course structure provides strong hold on topics like Statistics, Econometrics and 16 Time Series Analysis along with the adequate mindset required for such roles. In the field of Finance, the industry looks for people with a good understanding of Economics, Mathematics and Finance that are included in the course structure. People from this branch also look forward to working in Think Tanks, NGOs and Economics research. There are various Government agencies like planning commissions (NITI Aayog), Financial Ministry and many others that look for students with Economics degrees.

17 Int. MS Physics This branch has had a volatile history and was not offered for 2 years before being recontinued in 2017. It is essentially a bigger brother of Engineering Physics sans the engineering subjects. Physics students excel in not just research (in their core subjects, that too!), but also in many other facets of college life. As with its Engineering counterpart, the structure of the course offered at Roorkee consists of a package of standard undergraduate physics courses designed to give a thorough understanding of most of the basic and popular areas of physics research to the students. Studies deal with condensed matter physics, optics, quantum physics, nuclear physics and atmospheric and atomic physics. Recent changes have been reflected in new courses being floated, such as those in astrophysics, space technology, nano-systems, biophysics and quantum computing. This being a pure science course, the last two fields of study involve a deeper look at core physics courses including Quantum Mechanics, QFT and Statistical Mechanics. Courses and Syllabus Roorkee's physics department has traditionally held a theoretical stronghold. We have a number of experienced faculty specializing in nuclear physics, condensed matter physics, atmospheric science and atomic physics. The new faculty has brought in experience in fields such as astrophysics, biophysics and solar cell research. There is an upcoming cutting edge lab in quantum optics, supposed to be operational soon, that is expected to produce quality experimental research once working. Students, especially undergraduates, have been known to participate in the department's research activities. Undergraduates are usually not expected to do research, but there have been instances of students collaborating and even taking the lead on projects leading to publications. The department is usually forthcoming to such initiatives on the student's part. Features Future Prospects, Internships and Placements Students, especially undergraduates, have ample opportunities to participate in active research during their summer and winter breaks. A number of summer fellowships have been awarded to students to work at prestigious universities and research institutions, both in India and abroad. Many senior students work with the researchers of their choice over the breaks, where they are exposed to an intensive research environment, experience they bring home to the benefit of their fellow students. There have been participants in exchange programs like the WISE (DAAD Germany), the SN Bose Scholars Program 18 (USA), the Mitacs Globalink Program (Canada), CERN internships and other fruitful exchanges with some European universities. A number of students also participate in the IAS fellowship program, where they are paired with a leading researcher at an Indian university or institute for the summer. It is also common for students to participate in summer and winter schools and camps in specialized topics. A testament to the efficacy of such programs has been the number of publications that have come out of these projects, assuring us that the students have been exposed to quality research. This experience is vital in helping the undergraduates make an informed choice when opting for graduate school. A great experience working in the lab, or on theoretical or numerical projects has persuaded a number of skeptical students to opt to go to graduate school. Opportunities for students after graduation are varied. On the physics front, a doctorate degree is a necessity if the students want to be researchers. With the right profile, a Roorkee graduate can make it to top schools in the US and Europe. Recent graduates have made it to top Ivy League schools, and best research groups in Europe. It is also common for students to get graduate positions at top Indian research institutes. The curious mix of courses taught at Roorkee prepares the graduating students for life ahead as a physics researcher.

19 Mathematics and Computing Introduced for the first time in the 2021 batch. Technically a replacement course for Int. MSc. Applied Mathematics BS-MS Course. Total duration is 5 years but you can exit in 4 with a BS degree. Undergrads of this course live up to their 'nerdy kids' stereotype but indulge in a variety of cultural and other (not specified) activities on campus. The Career prospects of this field include but are not limited to IT and Software Dev: The usual non core which will be aided as this is a circuitual branch with certain computer programming courses like Data Structures, Database Management Systems et cetera. An introduction to cryptography as well through courses like Number theory and elective like Mathematical Cryptography. Statistical Machine Learning with certain electives will also help in jobs of similar prospects. Core Research: Courses like Elementary Real analysis, Real Analysis, Complex Analysis, Number Theory and many other courses are oriented to promote academic mathematical Research Finance: Several courses of MnC are oriented for jobs in the field of Finance (especially quantitative analyst (quant)) with electives like "Machine Learning for Finance" and "Financial Risk Management" Career prospects Course Structure First Year has courses similar to other UG departments (Especially in the first sem). The second sem introduces some introductory mathematical courses like elementary real analysis and number theory with a CS course- Data Structures. The second year introduces a lot more academically oriented mathematics courses like Discrete mathematics, complex analysis while also introducing some practical based courses based on application of mathematics like Statistical Machine learning. Third year has more interdepartmental courses like Database management systems and a management elective. It also has a few cores like Theory of computation, Mathematical modelling and gives an opportunity to choose 2 program electives along with an open elective from any department. Fourth year give a lot more freedom in choosing courses including minor specialisation courses, program electives and core subjects too. Students have an option to trade two program electives for an 8 credit project. Fifth year is mostly the time where the students will work on their thesis (and take up some program electives in their ninth sem).

20 The Mechanical department was established in 1946. (Sarcasm alert!) This department is mainly known for its path-breaking research, use of fancy technology and tendency to give orgasmic reactions at the sight of any company with a CTC greater than 6 lacs. The bachelor course for Mechanical Engineering at IITR can be broadly divided into the following subjects: Thermal Engineering and Fluids, Manufacturing, and Machine Design & Robotics. Apart from these subjects, the curriculum also includes introductory courses to the other branches. Since some courses form the foundation for the ones that follow as you move up the ladder, it is advisable to develop a thorough understanding in the subjects. The one salient feature of this branch at IITR is the presence of various students groups in the campus who have undertaken projects closely relating to the practical aspects of what you study in the classroom. Team KNOx and FSAE aim at a full design and fabrication of All Terrain vehicles and Formula cars; SAE and ASHRAE foster the concepts of Automotive Engineering and Thermodynamics; ASME for the robotics and also the newly emerging projects in aerodynamics. Walking into an IIT itself opens the doors to a plethora of career options. While many choose to stay onboard, others exhibit their dexterity at competitive or developmental programming, marketing and finance or realize that working at a consultancy firm is the safest bet. Features Future Prospects, Internships and Placements One can opt to pursue higher education in India or abroad. A master's degree can be obtained in various disciplines. Some of the research areas pertaining to the branch are Rapid Prototyping, Robotics, Vehicle-to-Vehicle Interaction, Intelligent Automotive, Energy Efficiency/ Hybrid Technologies, INDUSTRIE 4., Smart Structures, etc. A good GPA along with some project undertaking can land you at a top-notch university with little effort. It is mandatory to do an internship after the third year. However, it is always better to utilize the second-year holidays as well. Internships can be done in the industry or can be of the research Mechanical Engineering Courses and Syllabus 21 type, which is done under the guidance of a professor. Companies such as ITC, Shell, Schlumberger, and Tata Steel recruit interns from the college while you can always apply to any firm on the campus. One particular perk of the internship is that you may end up with a job offer right after your work review, which saves you from the agonizing process of placements, which, for most of the candidates turns out to be a blood pressure escalating affair. You can also try for a foreign intern in countries such as Germany, Canada, Japan, and the USA with the help of various internship programs.

22 Metallurgy and Materials Engineering Meta, as it is termed in IITR lingo, is better known as the chemical engineering department's poorer cousin. The metallurgical department undergrads are identified by their strong indulgence in the affairs of the

institute and anything which isn't even remotely related to their branch. The ability to understand and manipulate materials and their properties is a key factor in any industrial process or technology. Metallurgy is a domain of materials engineering that studies the physical and chemical behaviour of metallic elements, their intermetallic compounds and their mixtures called alloys. With subjects like Structural Metallurgy, Thermodynamics, Material Kinetics and Metal Casting and Joining, a holistic perspective on dealing with materials can be achieved through this course. Courses and Syllabus The Metallurgical and Materials Engineering Department is one of the most active departments in IITR, with multiple societies such as METES & Material Advantage Student Chapter functional here, comprising of both students and faculty. Additionally, Material Science has immense scope for research, and many graduates opt for Masters or PhDs in the subject of their choice after graduation. A lot of research is undertaken by the professors, in the department, in the self sufficient laboratories. 330+ scores in GRE along with impeccable research profiles have taken our graduates to top research laboratories such as those in Stanford University, MIT, University of Wisconsin- Madison, Princeton etc. Features Future Prospects, Internships and Placements Broadly classified into three categories, namely, research, industrial and non-core, students can pursue their interests in this period to align their professional choices. Programs such as MITACS (Canada) and DAAD (Germany) provide well articulated research options abroad. Since these programs are associated with high GPA caps, people opt for cold-mailing professors across continents with similar research interests and enough funding, for the coveted research experience. A faction of students look upon steel giants and other associated industries to grab any opening as a summer trainee. Apart from core ventures, people tend to go for internships in the finance sector, consultancies and firms for designing & advertisements as well. As far as the campus placements are considered, students are eligible for almost all data analytics and consultancy firms that visit in the 20-day window when the campus, quite ironically, reflects cold-war & bloodshed. For some years now, Roorkee has been witness to scanty participation by core industries for the Metallurgy and Materials Engineering Dept., but the numbers are expected to turnaround soon. People are also placed in consultancies such as ZS Associates, i3 consulting and several found a desk under the roof of IT houses such as Wipro & TCS. 23 Production and Industrial Engineering, as the name suggests, comprises of two different specializations. Production Engineering involves study and application of various manufacturing processes. There are practical and theoretical courses on Manufacturing Techniques namely Forming, Material Removal and Finishing processes and Tool Engineering. The course content is more theoretical rather than mathematical. Industrial Engineering covers a very wide variety of subjects. It revolves around optimizing the time and resources available for a firm and running their operations. The subjects pertaining to the same are more mathematically intense than Production. Some courses in the curriculum are borrowed from Mechanical Engineering, like Machine Drawing, Thermodynamics, Fluid Dynamics and Theory of Machines, to name a few. Courses and Syllabus Production and Industrial Engineering Production and Industrial Engineering (P&I) is a sister branch of Mechanical Engineering. The undergrads are basically Mechanical Engineers in making, only with an easier lifestyle. (This is a good thing, don't listen to your mechanical engineering friends.) An industrial engineer has wide knowledge of engineering practices and is aware of management challenges related to production. Most manufacturing houses look out for engineers who specialize in this field so as to reduce cost, increase efficiency and make their products marketable in this competitive era. Among the older IITs, P&I, as a branch, is offered only in IIT Delhi and IIT Roorkee, along with a similar branch in IIT Kharagpur (Manufacturing Engineering), making it all the more unique. On an average the workload is 20 hours per week, which gives a lot of time to the students to engage in extracurricular activities in the institute and carry out any research related activities in his/her area of interest. Features Future Prospects, Internships and Placements Students can, post their undergraduate studies, opt for MBA in Operations (or in general) or pursue MS in any field of Industrial Engineering (Analytics, Optimization, Facilities Systems and Network Planning, Stochastic Modelling and Simulation, Health Systems, Manufacturing, SCM, Operations Research). For those interested in Production, the fields of research are mostly centered around manufacturing processes and their optimization, including Advanced Machining, Ultrasonic Machining, Electro Discharge Machining, Submerged Arc Welding, Computer Numerically Controlled Machining to name a few. A lucky few get to do a fully funded research internship in Germany via DAAD, in Canada via MITACS, and in Japan via HondaYES+. Most students try to widen their 24 prospects by studying business and finance related disciplines so as to get internships and jobs in those fields. Additionally, as far as campus recruitments are concerned, PI students are eligible for almost all data-analytic and consultancy firms that visit the campus. Jobs opportunities are not scarce, but again, there is no free lunch. Students in this branch enjoy the versatility of choice as they get placed in companies across various sectors: Oil and Gas (Shell, Schlumberger), FMCG (ITC), Automotive (TATA Motors, Hero MotoCorp, Anand Automotive, VE Commercial, Mahindra & Mahindra), eCommerce (Flipkart, Snapdeal), IT (Oracle, Wipro) and other companies visiting the campus offering roles in various domains. 24 Find us online watchout.iitr.ac.in www.facebook.com/watchoutiitr/ www.instagram.com/watchoutiitr/ EXPECTATIONS www.expectationsiitr.com IITR CONTENTS Cultural Groups Academics Eateries Placements 03 30 46 54 81 Branches 20 39 50 Fests Facilities 63 FAQs Technical Groups Academics Branches 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. 03 Expectations IITR Academics Applied Mathematics Branches 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 04 Expectations IITR 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 Architecture 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 Biotechnology 05 Expectations IITR Academics Branches Academics Branches 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 06 Expectations IITR 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 Civil 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 Computer Science Engineering 07 Expectations IITR Academics Branches 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 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 alums 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 08 Expectations IITR Academics Branches Core Sector Companies offering Placement/Internship: Texas Instruments, Tata Group, Shimizu Corporation, ITC Ltd-Amey Sahasrabudhe 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 some of the biggest held in the country and were well attended by students and professors of Indian as well as international universities. 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 Electronics and Communication Engineering 09 Expectations IITR Academics Branches 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. 10 Expectations IITR Academics Branches Core Sector Companies offering Placement/Internship: ANEL Emirates General Contracting, ISRO, Texas Instruments.-Vineet Singla & Deep Jain 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 Geological Technology 11 Expectations IITR Academics Branches Core Sector Companies offering Placement/Internship: ONGC, Schlumberger.-Bhavjot Kaur 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

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 Geophysical Technology 12 Expectations IITR Academics Branches Academics Branches 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 SRFP (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 13 Expectations IITR 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 underlie 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 Engineering Physics/ Integrated M.Sc. Physics 14 Expectations IITR Academics Branches 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 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. Integrated M.Sc. Physics 15 Expectations IITR Academics Branches Academics Mechanical Engineering Branches 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 16 Expectations IITR Academics Metallurgical and Materials Branches 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 pieces 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 17 Expectations IITR Academics Polymer Science and Technology Branches 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 18 Expectations IITR Academics Production and Industrial Branches 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 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., Exonmobil.- Sameer Rastogi 19 Expectations IITR 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 Introduction Academics & Opportunities 20 Expectations IITR Academics Opportunities 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 21 Expectations IITR Academics Opportunities 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. 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 Branch Change 22 Expectations IITR Academics Opportunities 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 over 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. 23 Expectations IITR Academics Opportunities 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 Minors and Honours 24 Expectations IITR Academics Opportunities 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. 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 Research 25 Expectations IITR Academics Opportunities 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 26 Expectations IITR Academics Opportunities internship positions during the summer breaks. Summer Undergraduate Research Fellowship (SURF) offered by CalTech, Charkap 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 lags 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.

27 Expectations IITR Academics Opportunities 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 channel 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

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. Scholarships 28 Expectations IITR Academics Opportunities How to apply- The application form is available on the website from August and a notice is posted on Channel 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.

29 Expectations IITR Academics Opportunities Groups Expectations IITR 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.

30 Groups Technical 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 groom highly skillful designers. So the various applications launched by SDS Labs are aesthetically pleasing along with being functionally dynamic. Expectations IITR 31

Groups Technical 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 *erds*. *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! 32

Expectations IITR Groups Technical 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 have 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. 33

Expectations IITR Groups Technical 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. 34

Expectations IITR Groups Technical 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. 35

Expectations IITR Groups Technical 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*. 36

Expectations IITR Groups Technical 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 enthral 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. 37

Expectations IITR Groups Technical 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. 38

Expectations IITR Groups Cultural 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.

Expectations IITR 39 Groups Cultural 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.

40 Expectations IITR 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.

Choreography and Dance 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 Dramatics Section 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.

41 Expectations IITR Groups Cultural 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! 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. Watch Out! News agency 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. Kshitij 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.

Audio Section

42 Expectations IITR Groups Cultural 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.

43 Expectations IITR Groups Cultural 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.

44 Expectations IITR Groups Cultural 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 go 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.

45 Expectations IITR Events

Expectations IITR Fests

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!

46 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. Cognizance 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 Sangram 47 Expectations IITR Fests Events 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 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 Srishti 48 Expectations IITR Fests Events Events Fests 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. 49 Expectations IITR Placements 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 50 Expectations IITR Placements Expectations IITR 51 Placements Expectations IITR 52 Placements Expectations IITR 53 Places Facilities 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. 54 Expectations IITR Places Facilities 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 55 Expectations IITR Places Facilities 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. 56 Expectations IITR Places Facilities 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 57 Expectations IITR 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, 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. Tinkering Lab 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. TIDES Incubation Centre 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 Post Office 58 Expectations IITR Places Facilities 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. 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. LHC Nescafe, or as it is fondly called "Nesci" is one of the most popular hangout spots for sports people because of it's 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. Nescafe 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 Alpahaar 59 Expectations IITR Places Facilities Places Facilities 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 60 Expectations IITR Places Facilities the spiciest maggi and the biggest aaloo 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. 61 Expectations IITR Places Facilities 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. 62 Expectations IITR Places Expectations IITR Eateries 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! 63 Places Eateries 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! Hapinezz 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 Hapinezz. 64 Expectations IITR Places Eateries Tin Tin Tin 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. 65 Expectations IITR Places Eateries 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- Burrha 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! 66 Expectations IITR Places Eateries 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. 67 Expectations IITR Places Eateries 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 in 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 68 Expectations IITR Places Eateries 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, Biriyani, fish tikkas, desserts, russian salad, ambience. Noob Route- Keep walking straight from the Old Kasturba gate. Olive is at the end of the Road. 69 Expectations IITR Places Eateries 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. Expectations IITR 70 Places Eateries 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. 71 Expectations IITR Places Eateries 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. 72 Expectations IITR Places Eateries 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 73 Expectations IITR Places Eateries 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 delivers 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. 74 Expectations IITR Places Eateries Vegetarian 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. 75 Expectations IITR 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. Hari Confectioner 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. Center Point 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. Giani's: 76 Expectations IITR Places Eateries Places Eateries 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. 77 Expectations IITR Places Eateries 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 78 Expectations IITR Places Eateries 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. 79 Expectations IITR Places Eateries 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. 80 Expectations IITR FAQs 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. 81 Expectations IITR 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 82 Expectations IITR FAQs 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-sessional 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. 83 Expectations IITR FAQs 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. 84 Expectations IITR FAQs 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 85 Expectations IITR FAQs 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 fevistik 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! 86 Expectations IITR FAQs

- Anvita Prasad, Ayan Shree, Nishitha T, Sarthak Sharma

Semester Exchange can be a very promising experience for a student looking for courses, labs, resources not currently available at IIT Roorkee, and a perfect opportunity to soak in a foreign culture and lifestyle. However, the procedure for semester exchange programs can feel complex and unclear. To bring some clarity to the general information regarding these programs, Watch Out! Brings to you Semester Exchange: Tricks of the Trade
Skip to the Frequently Asked Questions

List of university affiliations (MoUs signed) and programs that IIT Roorkee has offered in the recent past:

- Kungliga Tekniska Högskolan (KTH) Royal Institute of Technology, Stockholm, Sweden.

An exchange program where you can design your study plan (except architecture students). Though not a part of the study plan, one can apply for the internship placement at KTH by contacting the department and professor of interest. Two students of IITR were nominated and had availed the offer.

- Australian National University, under the 'Future Research Talent' (FRT) Travel Awards.

FRT awards provide selected Indian students with an opportunity to travel to ANU to pursue collaborative research for 10-12 weeks in a range of disciplines, along with a reward of AU\$6000. Ten students of IITR were nominated, out of which a few won the award. (This was not conducted for the year 2020-21 owing to Covid-19) Refer to our Summer Diaries article to know more about the experience of Nancy Gupta in this university

- Nanyang Technological University (NTU), Singapore, under the NTU-India Connect Research Internship Programme.

The NTU-India Connect Research Internship Programme is a paid research internship program for students in their pre-final year that lasts for about 2-6 months. However, NTU also offers a student exchange program.

- Technical University of Munich (TUM), Germany.

The TUM Exchange Program enables students to study at TUM for up to 3 semesters and offers them internship opportunities. The application closes mid-May and Mid October for Winter and Summer Term, respectively.

- Niigata University (NU), Japan.

The program aims to provide exchange students opportunities to deepen understanding and enhance knowledge about Japan (includes courses on Japanese (language), Economics, and related subjects) for up to two semesters.

- École Polytechnique University, France.

In the student exchange program, eligible students can study alongside regular full-time students of Ecole Polytechnique for a maximum period of 12 months. The university also offers an internship program to undergraduate students, lasting for about 3-6 months.

- Shastri Indo-Canadian Institute, Canada | India.

Shastri Research Student Fellowship (SRSF) program is an internship program that provides a 12-week research project at Canadian universities for high-achieving senior undergraduates worldwide.

- DUO-India Fellowship Programme.

This program funds around 100 student pairs (preferably master and doctoral) for exchange between Indian and European institutes for at least one semester. 2 students of IITR were awarded this fellowship last year.

- The Ecole Speciale des Travaux Publics, du Bâtiment et de l'Industrie (ESTP), France. [Student Exchange Agreement]

This internship program is open for 3rd year and 4th year Bachelor's students, masters, and Ph.D. applications open around December, and the program begins in the following May.

- Centre Franco-Indien pour la promotion de la Recherche Avancée.

Indo-French Centre for the Promotion of Advanced Research (IFCPAR/CEFIPRA), a bilateral organization set up by the Government of India and the Government of France, is a model for international collaborative research in advanced areas of Science & Technology.

- Commonwealth Scholarship Commission in the UK.

Commonwealth Scholarships enable talented and motivated individuals to gain the knowledge and skills required for sustainable development and are offered to citizens from low and middle-income Commonwealth countries.

- DAAD Working Internships in Science and Engineering.

The program targets Indian students pursuing a degree in science and engineering who wish to do a research internship at a publicly-funded German higher education institution or a research institute.

- Deutscher Akademischer Austauschdienst German Academic Exchange.

This provides services for students to pursue Research in public-funded universities in Germany.

- European Community Action Scheme for the Mobility of University Students .

Erasmus+ helps organize student and doctoral candidate exchanges within Erasmus+ Programme countries and partner countries.

- Newton Bhabha Fund, Ph.D. Placements Programme.

Newton Bhabha Fund's Ph.D. Placements program provides funding to support short-term Ph.D. placements between UK and Indian institutions.

- Charpak Exchange Scholarship.

The program is designed for Indian students from all fields and streams of study enrolled in an Indian institution at the Bachelors or Master's degree level who wish to undertake an exchange semester program (for a period of one to four months)

- Lucerne University for Applied Sciences and Arts (HSLU), Switzerland.[Student Exchange Agreement]

The Lucerne University of Applied Sciences and Arts offers full-semester exchange programs and short-term programs for those not interested in a full-semester program. Refer to our Exchange Diaries article to know more about the experience of Chitransh Chatnani in this university

- Lulea Tekniska Universitet (LTU) Sweden.[Student Exchange Agreement]

Two years of studies are required before applying. The application process ends in early April and October for the autumn and spring semesters, respectively. The calendar includes semesters from September to late December and the beginning/middle of January to the beginning of June.

- Hochschule Fur Technik und Wirtschaft – University of Applied Sciences, Dresden, Germany.

An exchange program lasting for one semester, HTW Dresden offers various courses in English and German languages and the flexibility of designing your study course.

We mention these programs for your reference, but these may/may not be available next year; please check them yourself or wait for notification from the IR Office.

Frequently Asked Questions (FAQs)

Q1. Who coordinates the semester exchange programs?

The International Relations Office of IITR coordinates the Semester Exchange. IR Cell is a student body that assists IR Office and provides information about student exchange programs and scholarships. The programs are of two kinds:

- Through applications managed by the International Relations Office (IR Office)
- Through applications sent directly to the Partner Institute

Details about the various programs offered can be found on the website of the IR department.

Q2. What arrangements are made by IIT Roorkee or the host university?

Usually, the host institutes provide basic accommodation and food. Suppose a student is a part of a scholarship program, the host institute assists with the trip's expenses. In some other programs, the students are given a base stipend amount, and it's up to them how they wish to spend it, provided the expenses are made for the program. However, the specifics of these arrangements depend on the host university.

Q3. Does the IR cell help out in the application for Visa and communication with the host university?

The student is primarily responsible for the visa application process. However, the IR cell is involved in communication with the host university.

Q4. Are there any associated scholarships?

While most universities have their scholarships associated with the Semester Exchange programs, there are other special scholarships like the Charpak Scholarship or the DUO-India Fellowship. These scholarships can be lump-sum covering most expenses, including air travel, accommodation, and food, or in a stipend format.

Q5. When and how to apply?

Most universities call for registration for the spring semester in September-December and the winter semester in March-May. Documents required for most applications include:

- Statement of Purpose
- Scanned copy of passport
- Curriculum Vitae
- Transcripts
- Recommendation Letter/Referrals from professors of IITR
- DAPC approved list of courses to be taken at the host university

The selection criteria include your Statement of Purpose, while some universities also consider GPA. Additionally, the applicants must apply for their visa as soon as they receive their application confirmation to account for processing time. The IR Office creates a portal for uploading these documents on its website.

Q6. How are courses and credits evaluated? Why must the chosen subjects be DAPC approved?

Generally, the credits of that particular semester of the host college are transferred to IITR. However, this semester's grades are not taken into account in calculating the final CGPA on graduation. Students ought to ensure that they have gained all the credits specified for their undergraduate/postgraduate program. However, the specifics of credit transfer depend upon the program and host institute.

Before going, the student has to submit a student agreement to IITR, where credits are mentioned. The student agreement document is the DAPC approval of selected courses required by the academic section to transfer credits. DAPC makes sure that the programs chosen by you at the host university are identical/similar to the courses offered at IITR for that particular semester so that the student does not miss out on the academic skills necessary for continuing your program.

Q7. What should we do if we come across any semester exchange on our own? What is the modus operandi for that?

IITR has MoUs signed with 78 institutions, but all the available programs with partner universities are challenging to be noticed. Hence, we encourage all the students to be on the lookout for any international Semester Exchange or other programs they are interested in (Specifically, the ones involving universities with which IIT Roorkee has an MOU signed). If you come across a program you would like to pursue; you can email Dr. Pushpa (Executive Officer managing Exchange Programmes and Agreements). The IR Office would validate whether the program is beneficial to the student or not, an institute-wide email would be sent, and the usual procedures would be followed. We would like to request the IR Office and IR Cell to increase the frequency of the notifications for different programs and give a broader time window for uploading the various documents.

Financial assistance through DORA (Dean of Resources and Alumni Affairs) Office

DORA also provides financial support to IITR Students for semester exchange programs subject to the following conditions:

1. The host institute has an MOU with IITR.
2. The foreign institute/department should be in the top 500 institute's funding schemes QS World University Rankings or in the top 200 QS World University Rankings by subject.
3. The student must have a minimum CGPA of 8.0.
4. The funding would be available only for meeting the gap between the total expenditure and the total funds available from other sources.
5. Partial support under this scheme will be available only once during any academic program at IITR.

Funding Available

1. In Africa/Asia (excluding Japan/South Korea): Up to Rs. 50,000/-
2. In the rest of the world (including Japan/South Korea): Up to Rs. 1,00,000/-

Note

- Visits for training programs/schools etc., will not be supported.
- During an academic program, the total support available to a student from all the funding schemes of the institute put together would not exceed Rs. 1.5 lakhs.

This was just a summary of the semester exchange and research internship programs offered by premiere institutes worldwide. Students are advised to check out the IR website and website of the specific program they may be interested in for further details and updates.

For any subsequent queries, you can contact IR cell members:

Kartik Modi: +91 81047 77500

Raman Yadav: +91 72403 14132

Image credits: Saurabh Shinkhede, Kapil Vaidya (KTH Institute, Stockholm)

1842 : Roorkee was still a village on the banks of river Solani

1842 : Construction of Ganga canal started

1845 : Training school at Saharanpur started under the supervision of Baird Smith

1847-1947 : The college remained as Thomason College of Engineering

1847-1852 : Duration of first tenure of R MacLagan, the first Principal

23 Sep 1847 : Sir James Thomason proposed for an Engineering College

25 Nov 1847 : College Prospectus was issued for the first time

1 Jan 1848 : Roorkee College starts functioning

25 Nov 1847 : Notification by the government of North Western Province establishing college of Engineering at Roorkee

1850-1859

29 Aug 1851 : Plan for expansion of Roorkee college was submitted to the Governor General1852Printing Press established in the campus

21 Sep 1853 : Sir James Thomason, L T Colonel of the government of NWP dies and the College was renamed as Thomason College of Civil Engineering

7 Nov 1853: Bengal Sappers and Miners moved to Roorkee

1855: Central instruments depot established

1857: Entrance test for the College was started

1860-1869

1860 : ECS Williams functions as the Principal

1861: Municipality of Roorkee was created

1863: J G Medley was appointed as the Principal

1863: Professional papers on Indian Engineering was started by Principal Medley

1864: Roorkee College was affiliated to Calcutta University

1869: Coopers Hill college opened in England to train civil Engineers for services in India

1870-1879

1870: Publication of college calendar starts

1871: AM Lang was appointed as the Principal who functioned till 1877

1871: Engineering students mess was established properly

1872: Football introduced into the campus

1872: Polo introduced in the campus

1873: Hockey introduced in the campus

1873: Annual athletic meet introduced as an annual feature in the campus

1875: Coopers Hill college renamed as Royal Indian Engineering college

1875: Fees structure changed

1877: Many tennis courts were made

1878: Change in session from Nov-Aug to May-March

1878: Military section of the college was abolished formally

1879: Government of India proposes closure of Coopers hill college at England

1879: Loer subordinate group divided into Group A and B

1880-188

1880: Course for the Engineering students revised

1880: Gymnasium was set up

1882: Annual athletic meet temporarily abolished

1883: Post of Professor of geology and experimental science was abolished

1883: Assistant Engineers exams were suspended

1883: Establishment of printing press was reduced

1886: Publication of professional paper ends

1886: Professional papers on Indian Engineering ceased publication

1889: Tennis club established by Indian students

1890-1899

1890: Swimming was started as a sport in the campus

1891: Branderth relinquished charge

1891: F D M Brown took charge as the Principal

1892: Short course for the revenue officers set by the college

1893: Course on Telegraphy Engg. was started

1894: Roorkee College affiliated to Allahabad University

1894: Orchid house was built

1896: Lt Colonel Sir A P Macdonnel visits college to investigate plans to reorganize and expand it

1896: Clock presented by Sir Bir Shamsheer Jung Bahadur of Nepal set on the dome

1896: Electrical and Mechanical apprentices class were started

1897 : Two posts of assistant Principals abolished

1897 : F W Sidwick joins as an instructor for Electrical Engg.

1897 : Engineering courses were extended to three years from two years with civil and electrical disciplines

1898 : Electricity comes to college

1899 : W D McLaren joins as an instructor for Mechanical Engg.

1900-1909

1901 : Fortnightly test were replaced by end of term exams

1902 : Roorkee college wins Hockey shield six time in a row in the university tournament

1905 : Affiliation to Allahabad University ends

1907 : Royal Indian Engineering college closed down

1909 : Electrification of the college is completed
 1909 : Courses on Electrical and Mechanical Engg. were started at par with Civil Engg. courses
 1909 : Chemical, Physical, Mechanical and Mineralogical laboratories, Photomechanical Department, Power installation and electric light was inaugurated
 1910-1919
 1910 : A course on Textile Engg. was started
 1912 : Roorkee College was divested of all low level technical classes
 1913 : Association of the old boys of Thomason college was formed and called as the Thomason college Engineers Association
 20-Dec-17 : Whole Gymnasium and Convocation hall burns down due to faulty electric wiring during a red cross show
 1919 : Cricket in campus revived
 1919 : Thomason college Engineers Association collapses, Thomasonian publication comes to an end
 6-Jan-19 : Dispensary struck by lightning
 1920-1929
 1923 : Courses on Electrical and Mechanical Engineering were closed down
 1927 : Withdrawal of Guaranteed appointments to Roorkee boys during the period of Depression
 1930-1939
 1930 : European student mess closed
 1931 : College magazine Lion started
 1935 : First batch of Indian commissioned officers from IMA joined the college for Engg education
 1935 : Indian students messes were started
 1940-1949
 1941 : Roorkee university alumni association was established, earlier known as old boys association
 1943 : A unit of craftsmen called the technical pioneer force was formed
 1943 : A school of military Engg started functioning in the campus
 1946 : Electrical and Mechanical Engg courses were started and the college was renamed as Thomason college
 1947 : Central Building Research Institute established by CSIR
 1947 : The military school was shifted to Pune
 1948 : Roorkee university act was passed by the provincial legislature earlier this year
 1949 : Thomason college elevated to university status.
 25-Nov-49 : the university was inaugurated after 100 years of its establishment
 25-Nov-49 : Pandit Pant laid the foundation stone of a new building for the University lib.
 1950-1959
 28-Mar-50 : Dr.C.A Hart joined the university as Vice Chancellor
 10-Feb-51 : Foundation stone of a building of CBRI was laid
 1-Dec-52 : Foundation laid for the hall to be added to the student's club
 1-Feb-53 : Sri Bijawat became the Pro Vice Chancellor
 28-Feb-53 : Dr.C.A Hart resigned
 1953 : University staff association and club had it's beginning
 1954 : Sri Ajudhia Nath Khosla was appointed as Vice Chancellor
 1955 : College Magazine was renamed as Alumni Journal
 1-Nov-55 : Refresher course were formally inaugurated by Sri V.T.Krishnamchari
 25-Nov-55 : Pandit J.L.Nehru inaugurated WRDTC
 1956 : Adarsh Bal niketan came into existence
 1956 : Student Aid Loan Fund started
 1957-61 : Sri K.N.Kathpalia became the Pro Vice Chancellor
 1957 : Technical Assistant Course were run for two years
 1957 : Hobbies club came into existence
 1-Feb-57 : B.Arch was started in the middle of the session
 Jun-57 : Telecommunication Engg. Was sanctioned
 25-Nov-58 : Nehru was honoured the honorary degree of Doctor of Science
 1959 : Teacher training programme went on
 1959 : Rural housing wing was set up
 Mar-59 : Foundation stone of NCC Building was laid
 Aug-59 : Detailed scheme to establish Pilot Production-cum -training center
 25-Nov-59 : Dr. Rajendra Prasad was similarly Honoured
 18-Dec-59 : Khosla relinquished the post of VC
 1959 : Building for a small hospital was built
 1960-1969
 1960 : SRTEE started functioning
 1960 : Duration of BE Courses were increased to 4years from 3 years consequently no batch passed in 1963
 15-Aug-60 : Separate departments for mathematics, physics, chemistry, geology and geophysics were constituted
 1961 : Department. of Architecture got a separate building for itself
 1961 : First award of doctorate was made : 20-Mar-61 : Shri Ghananad Pande joined as VC
 1962 : A block of building for geophysics and geology in one wing and another for earthquake was completed
 1962 : The chinese war threw the BE courses out of gear.
 1962 : The batch due to pass out in 1964 was accelerated to go out 5 months earlier in January
 1962 : The batch to be passed in 1965 got out in Nov. 1964
 1962 : Employment information and guidance bureau was set up
 1962 : E.S recreation was renamed as Univ. Sports Associatio
 1962 : Gymnasium building came up
 1963 : The centenary gate was remodeled
 1963 : Five more ME courses were added to the existing 9 courses since 1958

1963 : Commission for scientific and technical terminology set up a unit to evolve Hindi technical term, it was wound up in 1967

1964 : Humanities section was started, it became a department in 1973

1964 : Decision to wind up polytechnic, last batch passed out in 1966

May-64 : Department. of telecommunication separated from electrical dept, it was renamed to electronics and communication

16-Jun-64 : The foundation stone of DPT was laid

Oct-64 : IIT's pay scale were introduced in the university

1965 : Painting and sculpture section was added to hobbies club

1966 : The entrance test result was for the first time processed in computers

1966 : Sri pande's term as VC came to an end

1966 : A teachers hostel was built in Vikas Nagar

31-Jan-66 : The teacher's wing was closed

26 Nov 66 : Dr. Zakir Hussain inaugurated the LBS, he was also honoured with degree of D.Sc

18-Nov-67 : Prime Minister Indira Gandhi was honored with the degree of D.ENG, she inaugurated the S.block of E&C Department.

1968 : Expansion in post -graduate courses, becoming 21

2-Oct-68 : Mahila work Centre was established . Later renamed as Mahila work and welfare centre

1969 : 25% seats got reserved for direct admission in UG courses Top

1970-1979

1970 : Horticulture and gardening section was added to Hobbies club

1970 : Badminton court was completed

1970 : Alakhanda club was opened, name was given in 1979

1970 : D Class goes to strike on March 1st

1971 : First batch of industrial branch was admitted

1971 : Five year term of Sri Chopra come to an end

1971 : QIP was set up in the university

1971 : Dr . Jai Krishna was appointed as VC in September

1972 : NSS was started

1973 : The Mechanical departmant was renamed the Department of Mechanical and Industrial Engg.

1974 : Mangal Ram Memorial Open Billiards Championship started

1974 : STREE was incorporated as one of the university's regular departments in April

1974 : Constitution of RUSA was passed and it became operative in October

1975 : E&C Tower was completed and inaugurated by VC Sri Reddy on 26-November

1975 : Philately and numismatic section was added to hobbies club

1976 : Traditional way of making all admission through exam was resumed

1977 : Dr. Jagdish Narain joined as new Vice Chancellor

1977 : Bloody fight between rival factions of students during RUSA election

1978 : The university broke ground by taking over DPT(Saharanpur)as one of its integral parts

1978 : College Magzine was renamed as Lion

1978 : Stargazing section was added to hobbies club

1979 : NIH was established in the campus of the Roorkee University

1979 : The Roorkee University Regional Computer Centre started functioning in November

1980-1989

1981 : Welding research lab. Was established under Indo-German Technical Cooperation Program

1982 : Centre for Microprocessor Application came into being

1982 : AHEC was set up

1982 : President of Tanzania Mr. Julius Nyrere and his wife visited the campus on 2nd April

1983 : Duration of ME courses were reduced to one and half years from two years

1983 : UG course in Computer Science and Technology was started

1984 : AVRC was established

1985 : Seven more centres were added

1986 : The USC (university science instrumentation Centre) was recognized as a Instrumentation Centre

1986 : Department of Bioscience and Biotechnology

1987 : E&C dept. was renamed as E&CE

1987 : STEP Roorkee was registered as a society

1989 : Three more centres were set up

1990-1999

9-Jan-90 : The constitution of the Roorkee school for the deaf was approved by the syndicate

1992 : The construction of Rajendra Bhawan was completed

1994 : A community centre was built near the hangar

1996 : Another fifteen centres had been added to the list

1996 : Information Superhighway Centre(ISC) was established

1998 : Department of Managment studies was started.

2000 - Ongoing

21 Sept 2001: At the turn of the century, the University of Roorkee was converted into an IIT by an act of Parliament. Dr. D.V. Singh, the last vice chancellor of University of Roorkee, took charge as the first director until the appointment of a new director.

Dec 2001: Dr. Prem Vrat took charge as Director of IITR.

2005: Three Centres of Excellence, namely Nanotechnology, Disaster Mitigation and Transportation Systems (CTRANS) established Sports facilities spruced up to international standards for the 41st Inter-IIT sports meet hosted at the institute.

2006: NC Nigam Guest House completed.

2006: Dr. S.C. Saxena joined as new Director on 1st June 2006.

2007: Mahatma Gandhi Central Library set up

2009: IIT Roorkee named the mentoring IIT for IIT Mandi in Himachal Pradesh. Classes for IITM started in Roorkee.

2011: The Greater Noida Campus of IITR launched

2015: The main building is renamed James Thomason Building.

2022: Mehta Family School for Data Science and Artificial Intelligence launched, ranks among top such schools in its first year.
Oct. 2022: Prof. Kamal Kishore Pant took charge as Director of IITR.