

INFORMATION BROCHURE

2017



Website: www.nitr.ac.in Email: director@nitr.ac.in registrar@nitr.ac.in

Phone: 0771-2254200 Fax: 0771-2254600

From the Director's Desk



Dear Students

It gives me immense pleasure in welcoming you all on behalf of the entire family of National Institute of Technology Raipur. The Institute has a standing of more than five decades and has contributed to the nation by producing talented technocrats. Our institute with intake of 955 undergraduate students is one of the largest amongst all the NITs.

This is the era of dynamic global market and tough competition. To be visible and survive in the crowd, one has to have an additional unique quality apart from the technical qualification. Such quality can be developed over the period of time spent in the campus before graduating and leaving the institute. There is no substitute to hard work and no short cut to success, for which, it will be our endeavour to groom all the students as all rounders becoming worthy to take challenges of life squarely and turn out as good citizens of the country. I am sure students will get here ample opportunity for self development. Moreover, there is a need to maintain proper balance between an individual's professional achievements with moral values, which would enable to become a successful human being. So look within and discover your potential. Physical fitness, self confidence, consistent striving and time management will definitely take you on the path of success.

During last couple of years, we have put in our all efforts to bring the institute in the present shape. However, we will be making serious efforts in coming future to upgrade the existing facilities in campus placement, academics, innovative research and co-curricular activities. We believe that each successive batch is doing better than its preceding batch.

I wish you all good luck and success in time ahead.

Dr. A M Rawani

About the Institute

Till 1956, there were only three technical education institutes in the country offering courses in the fields of Mining and Metallurgical Engineering. In view of this fact and with an aim of harnessing the ample mineral resources of the region, the Government College of Mining and Metallurgical Engineering was set-up on 1st May 1956. The first President of India, Honorable Dr. Rajendra Prasad laid the foundation stone of the college building on 14th September 1956. The college was inaugurated on 14th March 1963 by India's first Prime Minister Pt. Jawaharlal Nehru. The first session of the college commenced on 1st July 1956 with the admission of 30 students in Mining and in Metallurgical Engineering each. In 1958, additional courses in Civil, Mechanical and Electrical Engineering were incorporated and the college came to be known as Government College of Engineering and Technology. Later graduate courses in Chemical Engineering (1965), Architecture (1984), Electronics and Telecommunications (1985), Information Technology (2000), Computer Science and Engineering (2000), Biotechnology (2003) and Biomedical Engineering (2003) were introduced.



The college was accorded status of National Institute of Technology (an Institution of National Importance) on 01st December, 2005 in its golden jubilee year. The institute offers under graduate Degree courses in Civil Engineering, Mechanical Engineering, Electrical Engineering, Mining Engineering, Chemical Engineering, Metallurgical Engineering, Electronics & Telecommunication Engineering, Information Technology, Computer Science & Engineering, Bio Technology, Bio

Medical Engineering and Architecture. The institute also offer two years M. Tech. program in Civil Engineering, Mechanical Engineering, Chemical Engineering and Electrical Engineering. M. Tech. in Applied Geology and three year post graduate course leading to the Degree of Master of Computer Applications (M.C.A.) are also offered by this Institute.

After having the status of NIT, the institute has shifted its emphasis from undergraduate teaching to undergraduate as well as postgraduate teaching and research. Ph.D. programs are also offered in almost all disciplines. After receiving the deemed university status in 2007, the institute has promulgated its own ordinance and rules and regulations for undergraduate postgraduate and Ph.D. programs. At present 97 Ph.D. scholars are pursuing their research work in the institute.

The revision of curricula in all the branches has been done to include the latest content in science, engineering and technology after considering the inputs from various stakeholders, mainly the concerned industries, research laboratories and leading academic institutions in country. This institute is the largest amongst all the NITs for running a number of undergraduate programs and in its student intake. The modernization and upgradation of infrastructure and facilities is ongoing. Every year substantial budget is being allocated for modernization of laboratories and research facilities.



The results are visible in terms of growing numbers of research publications from the students and faculty members. The numbers of journals (online and print) have been increased to provide the latest update in various cutting edge research avenues. The institute has recently constructed 800 seat capacity boys and 150 seat capacity girls' hostel. A new campus is planned to be developed in 225 acres near Rakhi Bharenga about 23kms away from present campus. The finalization of the blue print for the construction of new campus has been done. {{{

Amenities and Facilities

Hostels

The institute has seven boys and three girls hostels in the campus including a 800-seater new boys hostel. Each hostel is self-contained with amenities such as common room and a dining hall with mess. All the hostel rooms are adequately furnished. Each old hostel has a capacity to house about 100 students. The administrative head of each hostel, the warden, is a senior faculty member. One caretaker/matron for each hostel is posted to manage the day-to-day affairs of the hostel. Each hostel has different students' working committees viz mess, discipline and cleanliness committee. A central hostel administrative section coordinates the matters related to the institute hostels. Three hostel blocks of 100 seats each are reserved for the boys from the first semester students. The seats are allotted to the students on the basis of their merit and distance of home town. The hostel administration compiles the applications for hostel admission and after due verification, the selection list is declared subsequently.



Dispensary

The dispensary in the campus is located near new faculty quarters. Dr. Sanjeev Pandey is the senior medical officer. The hostel warden, chief warden, medical officer or Dean (Students' Welfare) may be contacted in case of any medical emergency. Dr. Sanjeev Pandey may be contacted at 0771-2253345 (D) 0771-2242696 (R) and 9827111152 (M). The contact details of other doctors are: Dr. Sameer sonkar (9993932256), Dr. (Mrs.) Nalini Rajimwale, Homeopathy Specialist (9425522968), Dr. (Mrs.) Shubha. B. Koshley, MBBS, DOMS (9993932256). Ambulance facility is also available.



Central Library

The Central Library is situated in the main building and opens from 9 am to 8 pm in weekdays. It has a good collection of documents (more than 1 lakh) in general library section and book bank section, consisting of text books and reference books. The central library has subscribed to 50 numbers of print journals, 31 numbers of magazines and 16 numbers of national and state level newspapers. It has rich collection on e-resources which include nearly 1,50,000 e-books, subscription to 16 online databases having nearly 6700 full text e-journals and 690 online journal archives (back files of journals) related to all branches. The library automation program through LibSys7- library management software is in progress. The Web OPAC can be accessed from anywhere to know about the collections of the library. Fully Wi-Fi enabled and air conditioned reading room with 74 seating capacity and digital library services remains open from 9 am to 8 pm on weekdays and Saturdays. It caters to the information and document need of nearly

5000 users consisting of faculty members, staff, B.Tech / M.Tech. / MCA students and research scholars satisfactorily. The details of central library can be accessed at: <http://www.nitr.ac.in/dept-cl.php?dept=About%20us>.



A gymnasium is housed in the recreation hall near boys' hostels. The canteen is located near main building for the students, faculty and staff. A branch of State Bank of India with ATM is functioning in the campus. The ATM is located adjacent to the architecture department building. SBI offers e-collection facility for students where they can deposit their fees online. There is an Amul Parlors where the milk products are available. There is a stationery items & photocopy shop inside the campus. Maintenance of the campus is done by Estate Office with its civil and electrical wings. Saraswati Nagar Police Station is situated near NIT Campus and Saraswati nagar railway station has stoppage for all the local and major passenger trains.

Gymnasium

A gymnasium is housed in the recreation hall near boys' hostels.

Playgrounds

The Institute had reserved 80,000 sq. meters area for sports viz. cricket, hockey, football, volleyball, tennis etc, where the students can test their physical stamina and satisfy the Olympian Spirit.

Canteen

A canteen for the students, faculty and staff is there, near the main building.

State Bank of India

Fully automated Branch of State Bank of India with ATM is functioning in the Campus. This SBI ATM adjacent to Architecture Building. SBI is providing “e-collection” facility for students. Students can deposit their fee online.

Amul Parlor

There is an Amul Parlors also where the students can get milk and other milk products.

Stationery & Photocopier

There is a stationery item shop & photocopy shop for the students inside the campus.

Estate Office

Maintenance of the institute and campus with its civil and electrical wings is done by Estate Office.

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Students' Forum

There are different clubs and committees in the Institute for extra-curricular activities. It provides ample opportunities for the students to develop their skills in field of their interest. The activities of these groups are briefly introduced here.

Cultural Committee

The cultural committee of the Institute consists a group of students having multi-faceted talent who organize the annual technical festival of the Institute-Electika the Mega Fest apart from many other cultural events. The committee works under guidance of Dr. Lata Upadhyay from Bio-Technology department. The details may be referred at <https://www.facebook.com/sanskriti.nitr/>



The Technocracy (Students' Technical Committee)

The Students Technical Committee, under the guidance of Dr. M.K Tripathi from Metallurgical Engineering organizes technical workshops, seminars and events throughout the year. Also, this committee organizes annual techfest AAVARTAN which is scheduled on 7th and 8th October, 2017 for academic session 2017-18.

During Aavartan, Vigyaan a national level science exhibition is the center of attraction along with mega events in different domains like coding, robotics etc. Details may be explored at www.aavartan.org



Sports Committee

The annual sport meet of the Institute is organized by the committee under guidance of Dr. Manu Vardhan from Computer Science and Engineering department. The students participate and win different competition in inter-NIT completion under guidance of Dr. Alok Dubey, the sports officer. The popular sports at our campus include basket ball, hand ball, net ball, foot ball, badminton, athletics and cricket.

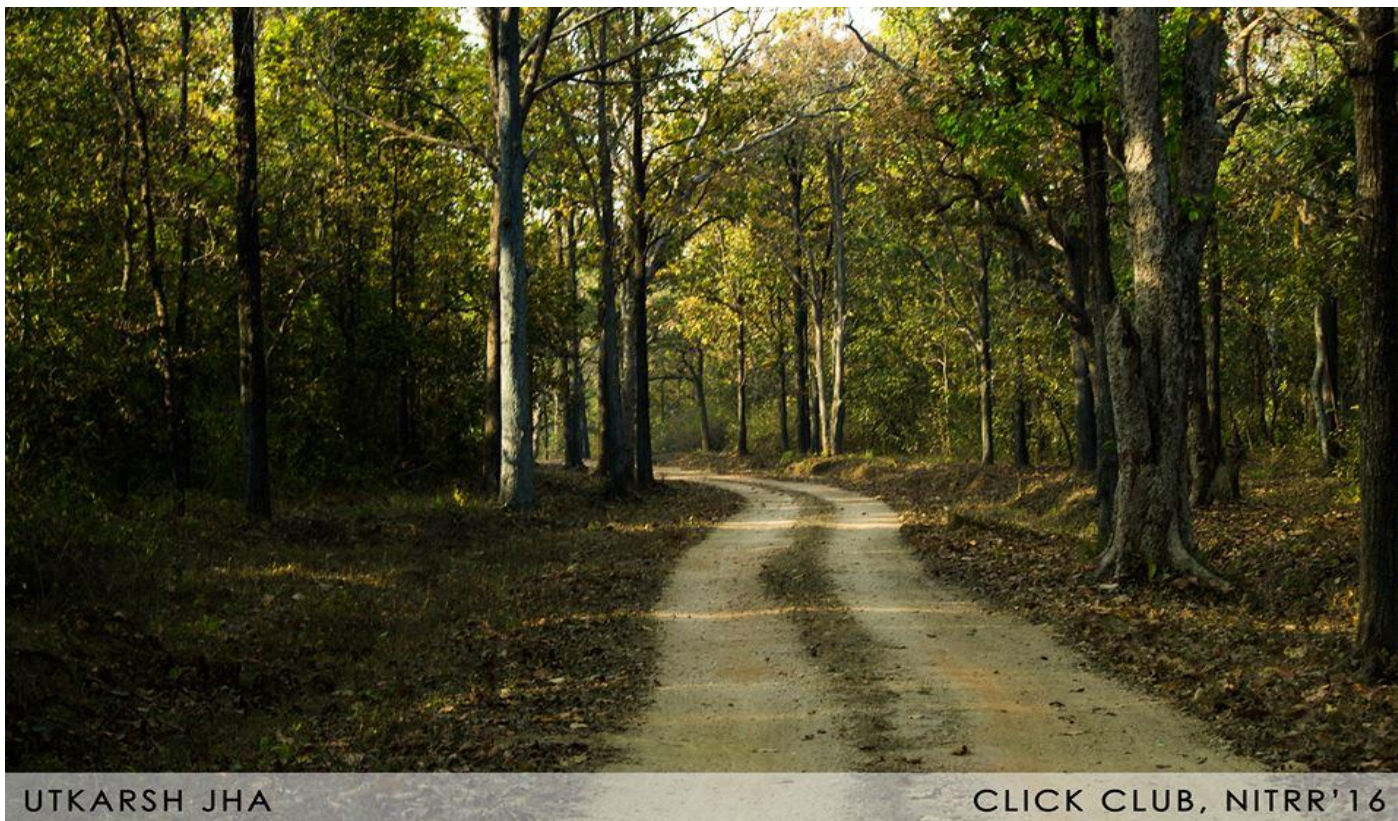


Literary Committee

This committee publishes Institute magazine Shilpi every year. Different articles are invited by students and faculty members of Institute on various aspects of campus life which is subsequently edited by the student volunteers. The interest in literature is promoted by this group. The committee works under guidance of Prof, Mithlesh Atulkar from MCA Department. The recent version of the magazine may be downloaded from <http://www.nitr.ac.in/downloads/nitshilpi/Shilpi%202016.pdf>.

Click Club

The Click club is the photography club of Institute, promoted by Prof. S. Sanyal from Mechanical Engineering department. It is a platform for photography enthusiasts and beginners to interact learn and nurture their photography skills. It started with the motto to click and capture all the events and activities of the Institute. The photographs used in this brochure has been borrowed from click club and gratefully acknowledged. For many other clicks, refer <https://www.facebook.com/clickclubnitr/>.



Entrepreneurship Cell

The primary objective of entrepreneurship cell is to inculcate the spirit of entrepreneurship in the students. The E-Cell hosts various workshops, speaker sessions, innovative games, competitions for the aspiring

entrepreneurs and support them by providing necessary resources such as seed funding, mentoring, consultancy and networking under guidance of Dr. Subhas Ganguly from Metallurgical Engineering Department. For details, please visit <http://ecellnitr.org>.

SAHYOG – The Mentorship Club

The primary objective of this team is to provide guidance to junior students by senior students through positive and constructive interactions. It works as a link between students and counselling cell of the Institute which facilitates students to seek solutions to their problems. This group works under guidance of Dr. R.K. Jade from Mining Engg.

Raaga – The Music Club

The music club of Institute Raaga was founded in year 2010 and since then, it has witnessed enthusiastic participation from the students. An annual musical evening, Shruti is organized by the group. The group was founded and has been guided by Prof. S. Sanyal.



Go Green Club

The green movement of this institution was founded in the year 2010 with the purpose of educating the students about the environmental perils which await us and also empowering the students to contribute towards a greener environment by providing them with the appropriate opportunities. The group mandates for environmental awareness, conservation and protection under dynamic guidance of Prof. Samir Bajpai from

Civil Engineering. The activity details of the team may be located at <https://www.facebook.com/GoGreenNITRaipur/>.



Innovation Club

The president of India, Mr. Pranab Mukherjee motivated the centrally funded technological institutions to innovate for the betterment of society. The innovation club of our Institute inherits inspiration from the idea. The club is headed by Dr. Manoj Chopkar from Department of Metallurgical Engineering.

Rajbhasha Samiti

This group organizes various workshops and quizzes to sensitize the audience about central government rules regarding uses of official language Hindi and promotes it by various means. The group is headed by Prof. S. Agrawal from Physics Department. The details may be referred at <https://www.facebook.com/rajbhasha.nitr/>.

TEDxNITRaipur

TED (Technology, Entertainment and Design) talks have gain popularity due to short and effective talks on various subjects. The students of our Institute have organized the pilot version of TED talks 26th March, 2017 under guidance of Dr. M.K Tripathi from Metallurgical Engineering. The details regarding speakers and

organizers may be further explored at <https://www.ted.com/tedx/events/20612> and <http://www.tedxnitraipur.com/>.

NCC

A large number of alumnus of the Institute have been working in the armed forces. They derive inspiration and receive basic training at the NCC office of the Institute. The faculty advisor is Dr. Santosh Penta from Chemistry department.



Dance club

It is relatively new group in the Institute to create interest and promote dance among the students. The group is led by Dr. Moksha Singh of Humanities department. For details, please visit <https://www.facebook.com/nrityamdanceclubnitrr>.

Interact Club

This club is meant to increase knowledge through interactions. It organizes quizzes and group discussions under guidance of Dr. Ayush Khare from Physics department.

Robotics Club

The club is for the robotics enthusiasts of the Institute which promotes the learning of breathtaking world of

robotics under guidance of Dr. Rajesh Doriya from Information Technology department. Explore the details at <https://www.facebook.com/nitrobots16/>.



Apart from this, every branch of engineering has its own Departmental Association, run by nominated student office bearers. These associations organize seminars, expert lectures, study tours and other department related activities either independently or in association with the Institute level student forums.



Anti-Ragging Measures

Due to grave consequences reported, the supreme court of India has taken strict stand against incidents of ragging in academic institutions. Therefore, all the academic Institutions have taken measures to ensure ragging free campus. In line with the guidelines, the Institute has constituted anti-ragging committee consisting of senior faculty members. The incidents of any attempt of ragging must be brought to the notice of this team. The contact numbers are appended herewith.



UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI

No. F. 1-21/2009 (Anti Ragging)

March, 2012

NOTICE

In pursuance to the Judgment of the Hon'ble Supreme Court of India dated 08.05.2009 in Civil Appeal No. 887/2009, the University Grants Commission has framed "UGC Regulations on curbing the menace of ragging in higher educational institutions, 2009" which have been notified on 4th July, 2009 in the Gazette of India. These regulations are mandatory for all Universities/Institutions. The UGC has made it mandatory for all students/parents to submit anti ragging related affidavits to the institutions at the time of admission. Now it is brought to the notice of all Universities, Institutions, Students and Parents that these affidavits can be downloaded from the web site of UGC and or related other web sites.

JS (ARC)

The court observes that Ragging is any disorderly conduct, whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness any student, indulging in rowdy or un disciplined activities which cause or are likely to cause annoyance, hardship or psychological harm or to raise fear of apprehension thereof in a fresher or a junior student and which has the effect of causing or generating a sense of shame or embarrassment so as to adversely affect the psyche of a fresher or a junior student.

Ragging includes but not limited to:

- Asking fresher to address seniors as *Sir*
- To dress in a specific dress code for a particular period of time
- To sing vulgar song or use abusive language.
- To do odd acts like cleaning the room of seniors, washing their clothes, fetching water, tea, breakfast, cigarettes or alcohol and even completing their class assignment.
- To do an act sexual in nature or to undress (stripping) or to sing pornographic limericks or to see pornographic items.
- To enact or to do silly things like kissing, proposing someone from opposite sex etc.
- Asking to try smoking, drugs or alcohol.

The disciplinary rules

A. If any fresher is tortured physically, mentally or emotionally by the senior students of the institute, he/she should report the matter immediately to the hostel warden/any faculty member of the institute as well as parents. The identity of the reporting student will not be disclosed. There is an undertaking at the end of this document which should be submitted by the student and his/her parents at the time of admission.

B. Physical, emotional and mental torture in any form to fellow students, seniors and juniors is a punishable act. The minimum punishment in such cases is in the form of fine and the maximum punishment is rustication of the accused. The maximum fine levied on this ground will be Rs. 20,000 per student. Such students will be debarred from the campus placements by the Training and Placement Cell of the institute.

C. Any misbehaviour in the institute with the faculty members or higher authority will be treated as serious misconduct. Any form of harassment to girl student or female faculty through undesirable activities will be viewed seriously. The notorious students found guilty will be rusticated from examination and the same will be mentioned in the character/conduct certificate.

D. Use of drugs/alcohol is strictly prohibited in the hostel and campus. The student caught red handed or proved guilty of consuming drugs/alcohol will not be allowed to enter the campus for a minimum period of one year.

E. In case of damage to the property that is hostel/class room/campus the amount of damage will be decided by the institute authorities and shall be recovered from concerned students.

Helpline

1	Dr. A.M. Rawani	Director	0771-2254200
2	Dr. Prabhat Diwan	Dean, Students' Welfare	9479221399
	Dr. Shrish Verma	Dean, Academics	9826424427
3	Dr. S. Sanyal	Dean, Research and Consultancy	9826425326
4	Dr. G. D. Ramtekkar	Dean, Planning and Development	9893131246
5	Dr. A. M. Rawani	Dean, Faculty Welfare	9893184701
6	Dr. P.Y. Dhekne	Registrar	0771-2252700
7	Dr. Manoj Pradhan	Chief Warden Boys' Hostel & Warden, Hostel-F	9826540711
8	Dr. (Mrs.) Subhrata Gupta	Chief Warden Girls' Hostel & Warden, Hostel-E	0771-2254750
9	Dr. A.K.Shrivastava	HOD, Physics	9827159605
10	Dr.S.P.Mahapatra	HOD, Chemistry	9098411198
11	Dr. A. K. Poonia	HOD, Chemical Engg.	9039291989
12	Dr. U.K. Dewangan	HOD, Civil Engg.	9406318996
13	Prof. Pankaj Dewangan	HOD, Mining Engg.	9826651855
14	Dr. A.K.Tiwari	HOD, Mechanical Engg.	9425235123
15	Dr. Abir Bandyopadhyay	HOD, Architecture	9826131726
16	Dr. Sameer Bajpai	HOD, Humanities & Social Sciences	9826167065
17	Dr. Prabhat Diwan	HOD, Applied Geology	9424274599
18	Dr. Bikesh Kumar Singh	HOD, Biomedical Engg	9826469522
19	Prof. Harendra Bikrol	HOD, M. C. A.	9406230141
20	Dr. Lata Bachan Upadhyay	HOD, Bio Technology	9752510082
21	Dr. D.S.Sisodiya	HOD, Computer Science and Engg.	9425371030
22	Dr. A.S.Raghuvanshi	HOD, Electronics and Telecommunication Engg.	8239992606
23	Dr. Sudhakar Pandey	HOD, Information Technology	9407627136
24	Dr. R.P.Pathak	HOD, Mathematics	9406122233
25	Dr. M. K. Chopkar	HOD, Metallurgical Engg.	8109939981
26	Dr. Subhojeet Ghosh	HOD, Electrical Engg.	8225817389
27	Mr. Rupendra Dewangan	Assistant Grade-III (Asst. to Chief Warden)	8878397585
28	Mr. Punoo Ram Nishad	Caretaker, Hostel-F	8085383742

29	Prof. D. S. Sisodia	Warden, Hostel-A	9425371030
30	Shri Amit Verma	Caretaker, Hostel-A	
31	Prof. V. K. Singh	Warden, Hostel-B	9893791121
32	Shri Bharat Yadav	Caretaker, Hostel-B	9300219295
33	Dr. Ayush Khare	Warden, Hostel-C, Hostel-H, Block-III	9425213445
34	Shri Manish Chandrakar	Caretaker, Hostel-C, Hostel-H, Block-III	8120273278
35	Dr. P. K. Choudhary	Warden, Hostel-D	9406145088
36	Shri Yogesh Verma	Caretaker, Hostel-D	9302312909
37	Prof. Pradeep Singh	Warden, Hostel-H,Block-I	9407627366
38	Mr. Sourabh Singh	Caretaker, Hostel-H, Block-I	7067825794
39	Prof. Sanjay Kumar	Warden, Hostel-H,Block-II	9407714701
40	Mr. Santosh Kumar	Caretaker, Hostel-H,Block-II	
41	Dr. (Mrs.) Subrata Gupta	Warden, PG Girls' Hostel	0771-2254750
42	Ms. Laxmi Sahoo	Caretaker, PG Girls' Hostel	8269063540
43	Dr. (Mrs.) Mridu Sahu	Warden Girls' Hostel-G	9826501139
44			
45	Dr. (Mrs.) Deepmala	Warden Girls' Hostel-G	7489465263
46	Mrs. Deepika	Matron Girls' Hostel-G	9669125490
47	Mrs. Hari Priya	Matron Girls' Hostel-G	7879857469
48	Mr. Balram Nayak	Security Officer	7587061831
49	Dr. Sanjeev Pandey	Medical Officer	9827111152
50	Ms. Hina Chawda	Faculty, Counselling Cell	8959048344

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Value Education based Counselling Cell

The institute offers counselling services to all its students through a unique approach based on development of human consciousness through value education. Getting admission in a professional program in a reputed institute is a landmark milestone. However, now equally important is to tread the path of professional education with dedication and hard work, with focus on the goal of professional and personal success and happiness. To traverse this journey, the mind should have to be clear, stress free and calm.

Most of the students move out of their home for the first time. Transition to college life, with probable change of language, without family support system, in a new environment is fairly challenging for a few students. Counseling Cell provides a counselor for helping the students to overcome any kind of stress or anxiety. The counselor is always available to help students to resolve their problems and pursue their goals with a calm and determined mind.



To help students develop human consciousness to lead a value-based life – a fundamental requirement to ensure success, both professional and personal, and more importantly, happiness – the institute offers a course on “Value Education”, to the second year students. In this course the students are empowered to analyze and understand the source or root cause of problems and find solutions so that they can live a successful and happy life.

The objectives of the madhasth darshan based value education is:

- To develop the understanding of self, family, relationship, values, nature and harmony.
- To understand the human being, humanity, human mindset, human conduct and universal order in nature and existence.
- To develop the understanding of Human consciousness.
- To develop the understanding about Human Life.



- To facilitate the development of a holistic perspective among students towards life, profession and happiness, based on a correct understanding of the Human reality and the rest of Existence. Such a holistic perspective forms the basis of Value based living in a natural way.
- To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually satisfying human behavior and mutually enriching interaction with Nature.
- To make students aware about the Everlasting solution, prosperity, trust in self and others, and coexistence for balance in nature.

The students are encouraged to visit the website (<http://madhyasth-darshan.info>) for details.

Examination Rules

This section is meant for the students to make them familiar with different terms related to examinations and understand the rules and regulation related to the undergraduate degree. Any further query pertaining to the examination should be clarified from the examination cell. Examination cell takes reference of personal particulars of the students i.e. name, father's name, mother's name etc. for printing on grade card/degree, only from his/her 10th marksheet. Therefore, all students are advised to provide their personal particulars as per their 10th marksheet in the MIS and as and when required by the Institute to avoid mental and monetary inconveniences at later stage. Students must update their contact no. into the MIS as and when they change it. It will be facilitate faster and easier communication of information. The students are expected to carefully read the notices / instructions (date of registration for examination, schedule of examination, exam time table etc.) issued by the examination cell and other authorities pertaining to the examination.

Class Tests and End Semester Examinations

Performance of a student in each semester is evaluated subject-wise. Each subject consists of FE, SE, ESE (Theory), ESE (Practical) and TA. In every semester for each subject, there is two class test (CT). These class tests are known as First Examination (FE) and Second Examination (SE). Marks of FE and SE are component of the total marks of that particular subject in the semester examination. There is no minimum passing marks for CT. The teacher's assessment (TA) is also conducted for each subject in every semester. Marks obtained in TA are also a component of the total marks of that particular subject in the semester examination. TA is conducted separately for theory and practical. Minimum passing marks in TA is 60% each in theory and practical. Teacher's assessment in each theory and/or practical will be based upon home assignments, quizzes, take home tests, viva-voce, attendance, tutorials etc. In every semester for each subject there is an End Semester Examination for theory (ESE – TH). The minimum passing marks in ESE-TH is 35%. To be eligible to appear in ESE, a candidate must score 60% marks in TA in each theory and/or practical separately failing which he/she will have to repeat the semester. In every semester for each subject there is an End Semester Examination for practical (ESE-PR). The minimum passing marks in ESE-PR is 50%.

The following are the eligibility criteria for a student for appearing in End Semester Examination:

- Subject-wise minimum 75% attendance in each theory and practical classes in the semester.
- A student must have appeared in the class tests i.e. First Exam (FE) and Second Exam (SE) of theory subjects in the semester.
- A student must have score 60% or more marks in the TA.

To pass any theory or practical examination, a candidate must obtain the following:-

- Minimum 35% marks in each theory paper.
- Minimum 50% marks in each practical examination.
- No minimum requirement in FE and SE (Class Tests).
- Minimum 35% marks of total marks (i.e. sum of FE, SE, TA and ESE) of a particular theory subject i.e. to earn grade C or above.
- Obtained minimum **5.75** SPI.

Student's performance is reflected in his/her grade card in the form of Semester Performance Index (SPI) and Cumulative Performance Index (CPI). The formula for calculating Semester Performance Index (SPI) and Cumulative Performance Index (CPI) is given in the respective Ordinance available on the Institute website under the Academic tab.

Grade in each and every theory and practical courses will be awarded separately on the basis of summation of marks obtained by a student in the First Exam (FE)*, Second Exam (SE)*, End Semester Exam (ESE) and Teacher's Assessment (TA) in a theory/practical course. [* for the theory courses only]. Students who are failed in any semester have to register again for the examination (Supplementary examination). The date of registration for examination is notified separately (approximately 01 month before the start of examinations).

Attendance of students in all the classes (lectures, tutorials, laboratories, seminars etc.) is mandatory. A student may be debarred from appearing in an examination or if s/he has already written an examination, the marks/grades obtained will be retracted on ground of attendance below the limit defined in ordinance.

Important Points from the Ordinance

The duration of course for B.Tech shall be minimum 4 years and maximum 7 years. For B.Arch. it is minimum 5 years and maximum 7 years. All students must complete their courses in the stipulated time to qualify for the degree certificate.

A candidate may provisionally continue ones studies in higher semester on completion of the examinations of the semester one has appeared. The candidate's eligibility to higher semester will be evaluated only after the result of the previous semester is declared. The eligibility of admission into higher semester will be governed by (N-4) system, where N is the new higher semester. For example, a student is eligible for admission into 5th semester only if he/she has passed the 1st semester (i.e. $5 - 4 = 1$). Eligibility for admission into higher semester has been tabulated above.

To be eligible for admission into the semester	Students should have passed the examinations of the semester	Have filled in any time in past the examination forms of semester
V	I	II, III, IV
VI	II	III, IV, V
VII	III	IV, V, VI
VIII	IV	V, VI, VII
II, III, IV	NIL	I, II and IIIrd respectively

No student shall be declared to have passed the final B.Tech. or B.Arch. unless he/she has fully passed all the previous examinations of the 8th semesters and 10th semester respectively. The results of the eighth and final semester of those candidates who have not passed examination of any previous semester will be withheld. Division for B.Tech. degree shall be awarded only after the eighth and final semester examination, based on integrated performance of the candidate for all the four years. The class/division awarded to a student with B. Tech./B. Arch. degree is decided by the student's overall performance at the end of last (eighth/tenth) semester as per the following:-

Distinction	$CPI \geq 8.25$
Class I	$7.25 \geq CPI < 8.25$
Class II	$5.75 \geq CPI < 7.25$

Merit list of top 10 students of all branches in the order of merit shall be declared at the end of first and second semester from amongst the candidates who have passed in first attempt. Merit list of top 5 students in the order of merit shall be declared at the end of each semester after second semester in each branch from amongst the candidates who have passed in first attempt. Branch-wise final merit list shall be declared by the Institute only after the main examination of the eighth and final semester for B.Tech. degree, on the basis of the integrated performance of all the four years. The merit list shall include the first five candidates securing at least First Division and passing all semesters in single attempt.

There is no provision for revaluation of evaluated answer books. Students will be shown their answer books post evaluation by the teacher. Students are to carefully see and satisfy themselves about their performance. If any student is not satisfied with the evaluation, he/she may write an application to the Departmental Grievance Committee for clarification / redressal of grievances. Once a candidate has been declared to have passed a semester examination, one

shall not be permitted to reappear in that examination or part thereof with a purpose of improvement of performance in examination, such as, division, marks, grades etc.

For B.Arch. students, after successful completion of Phase I (i.e. 1st to 8th semester) the students should be allowed to proceed for Phase II (i.e. 9th and 10th semesters). (N-4) system shall not be applicable to Phase II of the B. Arch. course.

An absolute grading system will be followed for the performance evaluation in the result. In every subject of theory and practical, a candidate will be awarded a letter grade based on one's combined performances of all the component i.e. TA, FE, SE and ESE. These grades will be described by letters indicating a qualitative assessment of the candidate performance in the subject through a number equivalent called Grade point (GP). A course is completed successfully, or a credit is earned for a course when Letter Grade 'C' or better is obtained in the course.

Letter Grade (LG)	A+	A	B+	B	C+	C	F
Grade Point (GP)	10	9	8	7	6	5	0

Grades will be awarded for every subject i.e. theory and practical separately. The absolute grading system adopted for theory and practical subjects is as follows:-

Grade	Theory	Practical
A+	85 ≤ Marks < 100%	90 ≤ Marks < 100%
A	75 ≤ Marks < 85%	82 ≤ Marks < 90%
B+	65 ≤ Marks < 75%	74 ≤ Marks < 82%
B	55 ≤ Marks < 65%	66 ≤ Marks < 74%
C+	45 ≤ Marks < 55%	58 ≤ Marks < 66%
C	35 ≤ Marks < 45%	50 ≤ Marks < 58%
F	0 < Marks < 35%	0 < Marks < 50%

The information related to various academic activities of the Institute is disseminated through the Academic Calendar. Academic Calendar is prepared well in advance and is hoisted on the Institute website. It is also displayed on the various departmental notice boards in the Institute. All students are advised to refer the same carefully. The syllabus and schemes of all the courses conducted at the Institute are available in the Institute website under the

Academic tab.

The students are advised to visit the Institute website and go through the notice boards for various information. All the above and other important information regarding the courses are available in detail in the Ordinance of the B.Tech. and the B. Arch. Courses. These are available on the institute website under the Academic tab. In the case of any ambiguity, the information given in the Ordinance shall be final and binding on the students.



In B. Tech. first year the classes for 1st semester and 2nd semester are mirrored. It means for sections from A to E the scheme of 1st semester and for sections F to J the scheme of 2nd semester will be applicable in odd (autumn) semester. Similarly in Even (spring) semester from sections A to E scheme of second semester and from sections F to J the scheme of first semester will be applicable. It is shown in the following tables. A few useful link are given below:

B. Tech. Ordinance: http://www.nitr.ac.in/downloads/ordinance/B.Tech_Ordinance.pdf

B. Arch. Ordinance: http://www.nitr.ac.in/downloads/ordinance/B.arch_Ordinance.pdf

Schemes and Syllabus of B. Tech & B. Arch.: <http://www.nitr.ac.in/syllabus.php>

Academic Calendar: http://www.nitr.ac.in/downloads/acad_cal/Aca.%20Calender%20Btech%20I%20Sem.pdf

**Course of Study and Scheme of Examination of
B. Tech. First Year (2017-2018)**

**First Sem.: Electronics (A), Electrical (B), Bio-Technology/Bio-Medical (C), Chemical D), Information Technology (E).
Second Sem.: Mechanical (F), Metallurgy (G), Civil (H), Mining (I), Comp. Science (J).**

Sr. No.	Board of Study	Subject Code	Subject	Period Per Week			Scheme of Examination				Total Marks	Credit
				L	T	P	THEORY					
							TA	FE	SE	ESE		[L+(T+P/2)]
1	H. & Social Sc.	0020111(SH)	Language (Professional Communication in English)	2	-	-	20	15	15	70	120	2
2	Chemistry	0020112(CH)	Applied Chemistry	3	1	-	20	15	15	70	120	4
3	Physics	0020113(PH)	Applied Physics	3	1	-	20	15	15	70	120	4
4	Mathematics	0020114(MA)	Applied Maths-I	3	1	-	20	15	15	70	120	4
5	Elect. Engg.	0020115(EL)	Basic Electrical Engg.	3	1	-	20	15	15	70	120	4
6	Engg. Mech.	0020116(AM)	Engg. Mechanics	3	1	-	20	15	15	70	120	4
7	Chemistry	0020121(CH)	Chemistry Laboratory.			2	30			20	50	1
8	Physics	0020122(PH)	Physics Laboratory.			2	30			20	50	1
9	Elect. Engg.	0020123(EL)	Elect. Engg. Laboratory.			2	30			20	50	1
10	Applied Mech.	0020124(AM)	Engg. Mechanics Laboratory.			2	30			20	50	1
11	Workshop	0020125(WS)	Workshop	0	0	6	30			20	50	3
12	H. & Social Sc.	0020126(HS)	Communication Skills	0	0	2	15	-	-	-	15	1
13	H. & Social Sc.	0020127(HS)	NCC/NSS/Sports	0	0	2	15	-	-	-	15	1
			Total	17	5	18	300	90	90	520	1000	31

Course of study and scheme of examination of

B. Tech. First Year (2017-2018)

First Sem.: Mechanical (F), Metallurgy (G), Civil (H), Mining (I), Comp. Science (J).

Second Sem.: Electronics (A), Electrical (B), Bio-Technology/Bio-Medical (C), Chemical (D), Information Technology (E).

Sr. No	Board of Study	Subject Code	Subject	Period Per Week			Scheme of Examination				Total Marks	Credit
				L	T	P	THEORY					
							TA	FE	SE	ESE		[L+(T+P/2)]
1	Mech. Engg.	0020211(ME)	Engg. Graphics	2	-	-	20	15	15	70	120	2
2	Chemistry	0020212(CH)	Environment & Ecology	3	1	-	20	15	15	70	120	4
3	Physics	0020213(PH)	Basic Electronics	3	1	-	20	15	15	70	120	4
4	Mathematics	0020214(MA)	Applied Maths-II	3	1	-	20	15	15	70	120	4
5	Mech./Civil Engg.	0020215(ME/CI)	Basic Mech. & Civil Engg.	2+2	1+1	-	20	15	15	70	120	6
6	Computer Sc. and Engg./ IT/Elex.	0020216 (CS/IT/ET)	Computer Fundamentals & I.T.	3	1	-	20	15	15	70	120	4
7	Mech. Engg.	0020221(ME)	Engg. Graphics Lab.			4	30			20	50	2
8	Chemistry	0020222(CH)	Environment and Ecology Lab.			2	30			20	50	1
9	Physics	0020223(PH)	Basic Electronics Lab.			2	30			20	50	1
10	Civil Engg.	0020224(CI)	Basic Civil Engg. Lab.			2	30			20	50	1
11	Computer Sc. and Engg./ IT/ Elex.	0020225 (CS/IT/ET)	Computer Fundamentals & I.T. Lab.			2	30			20	50	1
12	H. & Social Sc.	0020226(HS)	Health/Hygiene & Yoga	0	0	3	30	-	-	-	30	2
			Total	18	6	15	300	90	90	520	1000	32

**Scheme of examination for
Ten semester integrated course of B.Arch. First semester
(2017-2018)**

Sr. No.	Subject Code	Subject	Periods per week			Scheme of Examination			Total Marks	Credit [L+(T+P)/2]
			L	T	P	ESE	FE/SE	TA		
1	1111	Architectural Design I (Basic Design and Visual Arts)	2	0	0	0	50	100	150	2
2	1112	Building Construction and Technology I	2	0	0	70	30	75	175	2
3	1113	Structural Design and Systems I	3	2	0	70	30	20	120	4
4	1114	Architectural Graphics Skills-I	3	0	0	70	30	75	175	3
5	1115	Building Materials and Science I	2	1	0	70	30	20	120	3
6	1116	Communication Skills (Humanities)	2	1	0	70	30	20	120	3
7	1121	Architectural Design I (Basic Design and Visual Arts) Studio	0	0	6	50	0	0	50	3
8	1122	Building Construction Technology I Studio	0	0	3	25	0	0	25	2
9	1124	Architectural Graphics Skills I- Studio	0	0	3	25	0	0	25	2
10	1127	Workshop practice and Site exposure I	0	0	3	0	0	40	40	2
TOTAL			14	4	15	450	200	350	1000	26

Academic Calendar



राष्ट्रीय प्रौद्योगिकी संस्थान – रायपुर
NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
(Institute of National Importance)
G.E. Road, Raipur – 492010 (C.G.)

E-mail: deanacad@nitrr.ac.in
Website: www.nitrr.ac.in

No./NITRR/Dean (Academic)/2017/ 9336

Date: 31/07/2017

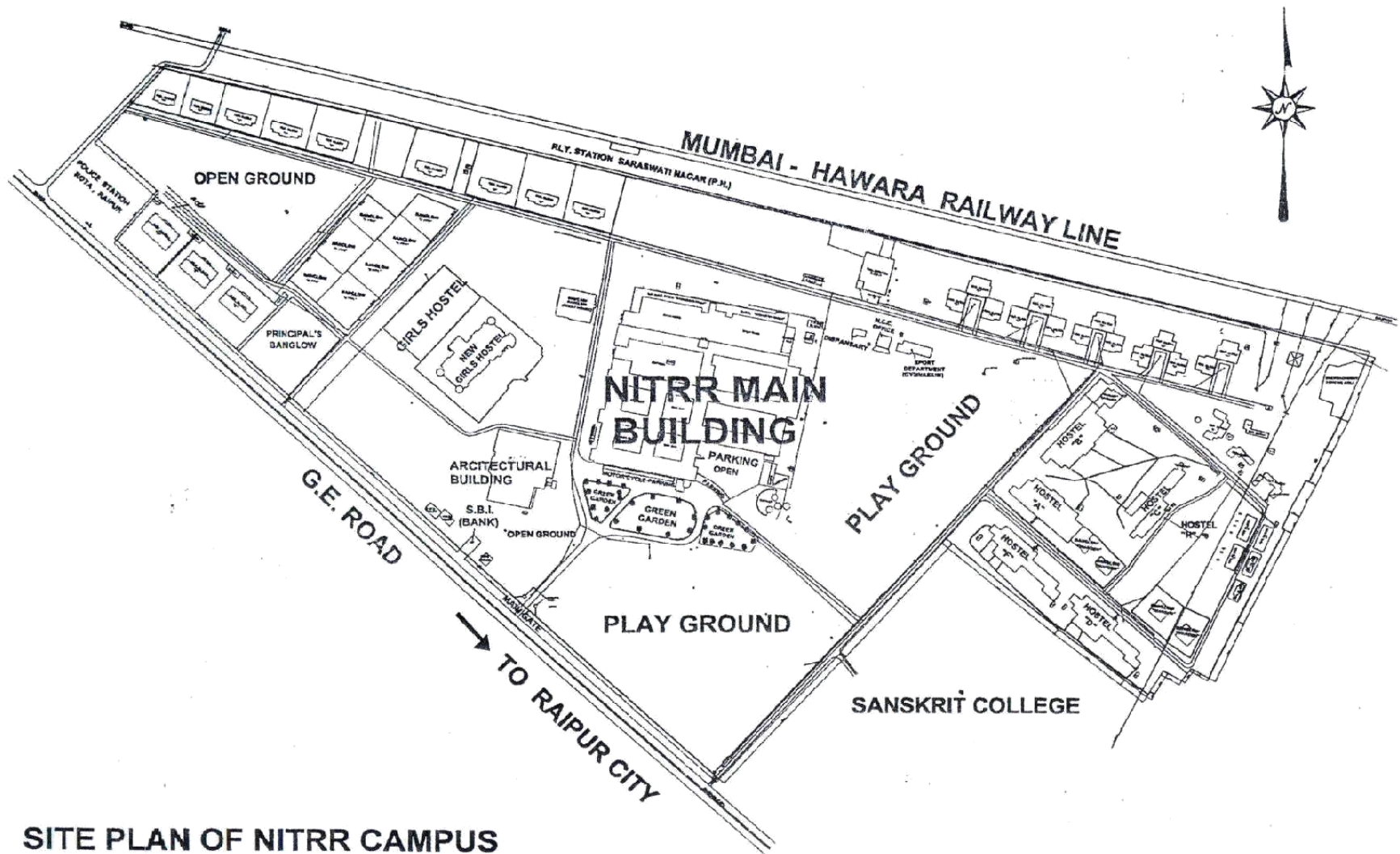
***TENTATIVE-ACADEMIC CALENDER for B. Tech. / B. Arch.- First Semester
(AUTUMN SEMETER 2017)***

- Commencement of classes : 03/08/2017
- First Exams on : 06/09/17 to 08/09/17
- Semester break(only for students) : 23/9/17 to 02/10/17
- Second Exam on : 13,16,17/10/17
- Declaration of provisional detention list : 23/10/2017
- Last date for submitting appeal by students against detention : 25/10/2017
- Declaration of final detention list : 13/11/2017
- Classes ends on : 16/11/2017
- Student Feedback Activity : 06/11/17 to 10/11/17
- End Semester Exam including practical exam : 17/11/17 to 11/12/17
- Showing of answer book : on or before 12/12/17
- Declaration of Result : 15/12/17
- *Winter* Vacation : 16/12/17 to 01/01/18

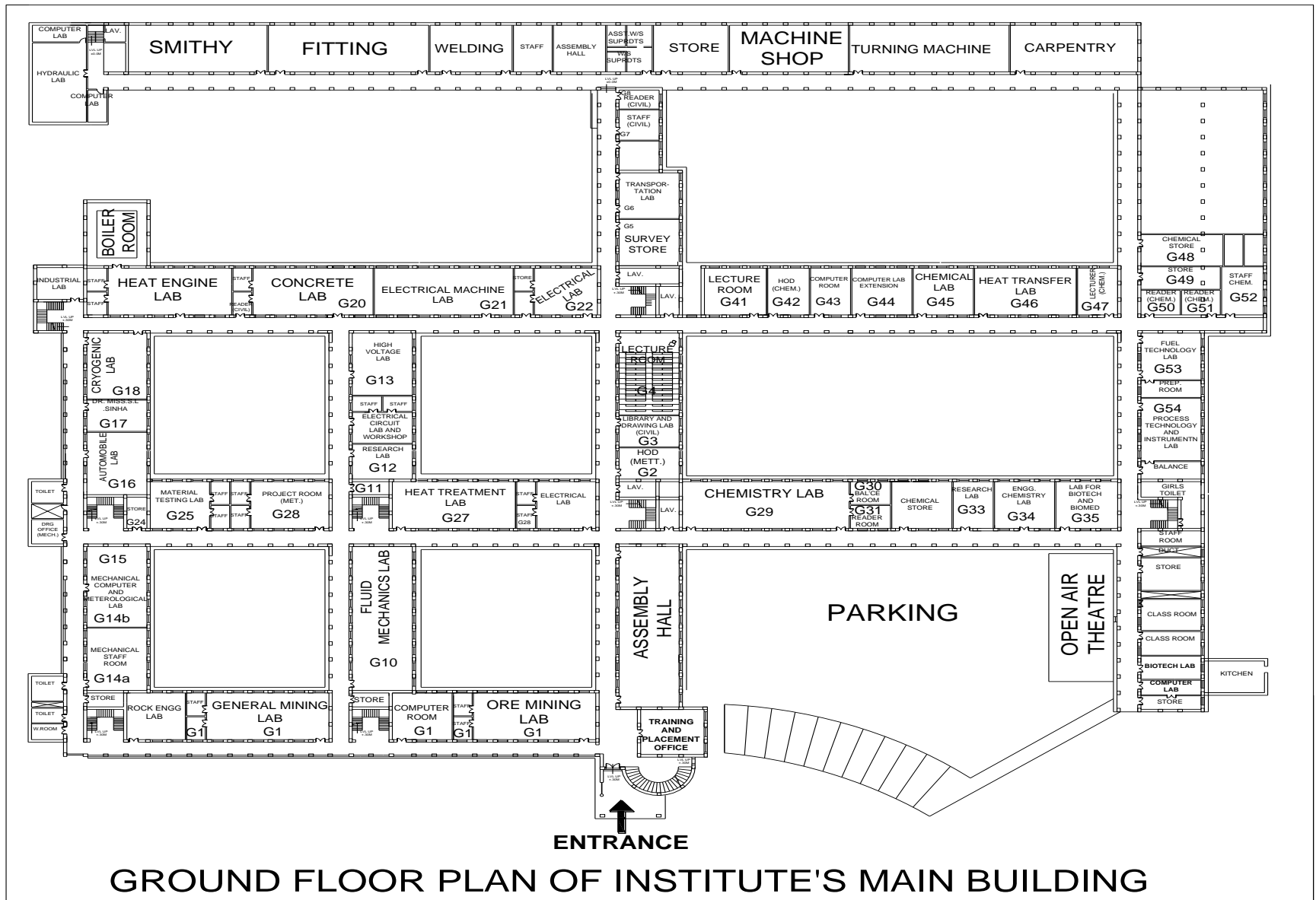
Dean (Academics)

Copy to: -

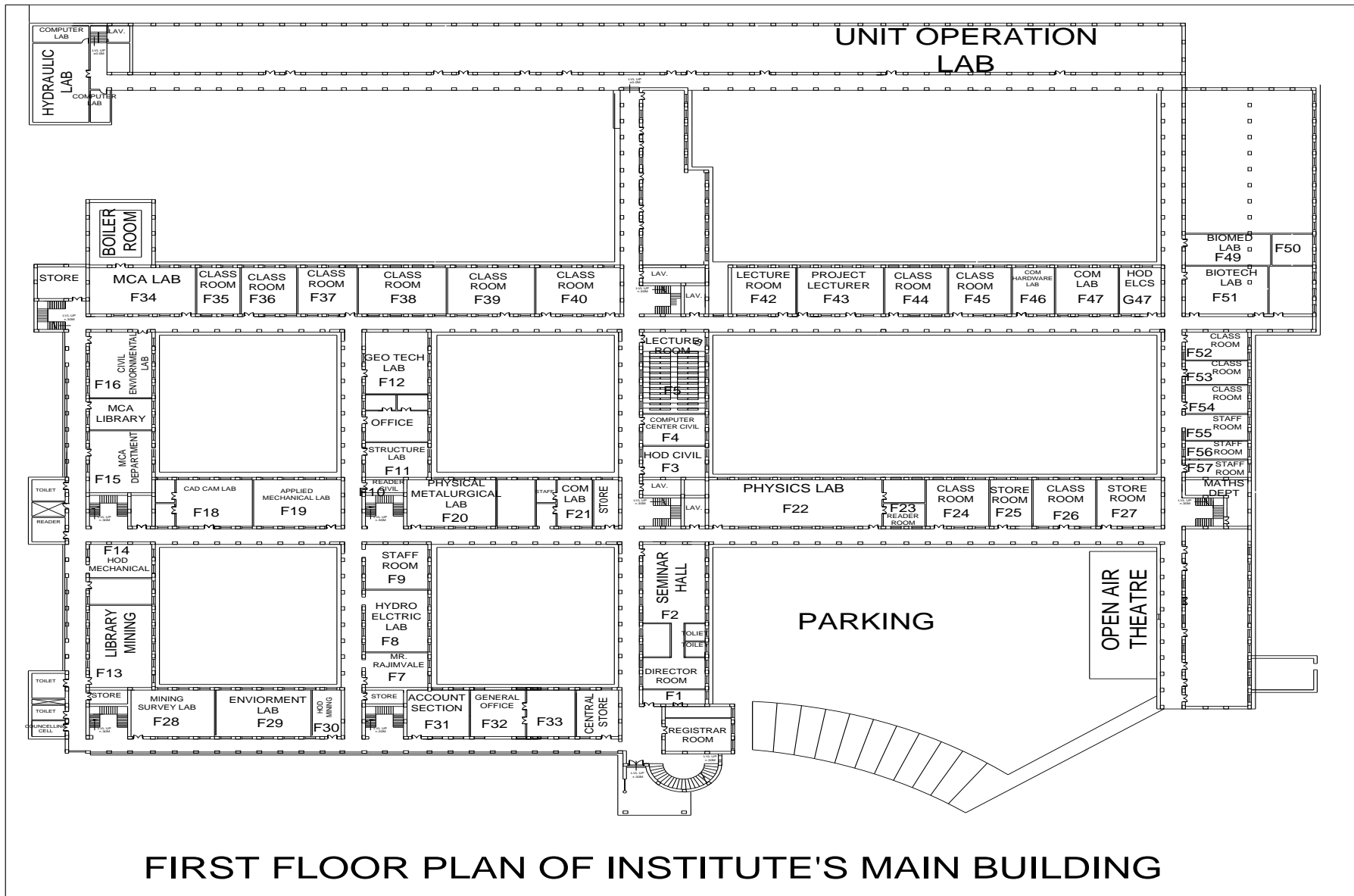
All Deans, All HODs for circulation among staff and display it on Notice Board, Registrar, P/S to Director, All Hostel Wardens for display it on hostel Notice Board, Student Section, Exam Cell, Accounts Office, Web Master to upload on institute website.



SITE PLAN OF NITRR CAMPUS



GROUND FLOOR PLAN OF INSTITUTE'S MAIN BUILDING



AS PER UGC ANTI RAGGING ACT, 2009 REQUIREMENTS
AFFIDAVIT BY THE STUDENT

I, _____ (full name of student with Institute Roll Number)
s/o d/o Mr./Mrs./Ms. _____, having
been admitted to _____ (name of the institution), have
received or downloaded a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher
Educational Institutions, 2009, (hereinafter called the “Regulations”) carefully read and fully understood the
provisions contained in the said Regulations.

1. I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.
2. I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am fully aware of the
penal and administrative action that is liable to be taken against me in case I am found guilty of or
abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.
3. I hereby solemnly aver and undertake that
 - a) I will not indulge in any behaviour or act that may be constituted as ragging under clause 3 of the
Regulations.
 - b) I will not participate in or abet or propagate through any act of commission or omission that may be
constituted as ragging under clause 3 of the Regulations.
4. I hereby affirm that, if found guilty of ragging, I am liable for punishment according to clause 9.1 of the
Regulations, without prejudice to any other criminal action that may be taken against me under any penal
law or any law for the time being in force.
5. I hereby declare that I have not been expelled or debarred from admission in any institution in the country
on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and
further affirm that, in case the declaration is found to be untrue, I am aware that my admission is liable to
be cancelled.
6. Along with the above mentioned points I do hereby declare that
 - a) I will obey the code of conduct of the institute and do not indulge in any kind of in-disciplined activity
while in and off the institution campus.
 - b) I will be solely responsible for any kind of accident/mishap caused on account of the above mentioned
clause (6.a). Declared this ___ day of _____ month of _____ year.

Signature of deponent
Name: _____

VERIFICATION

Verified that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false
and nothing has been concealed or misstated therein.

Verified at -----(place) on this the -----(day) of -----(month), -----(year) .

Signature of deponent

Solemnly affirmed and signed in my presence on this the -----(day) of -----(month),
----- (year) after reading the contents of this affidavit.

OATH COMMISSIONER

*Note: It is mandatory to submit this affidavit in the above format, if you desire to register for the
forthcoming academic session*

**AS PER UGC ANTI RAGGING ACT, 2009 REQUIREMENTS
AFFIDAVIT BY PARENT/GUARDIA**

I,-----
Mr./Mrs./Ms. _____
(full name of parent/guardian) father/mother/guardian of , (full name of student with University Roll Number) , having been admitted to _____(name of the institution) , have received or downloaded a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the “Regulations”), carefully read and fully understood the provisions contained in the said Regulations.

1. I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.
2. I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am fully aware of the penal and administrative action that is liable to be taken against my ward in case he/she is found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.
3. I hereby solemnly aver and undertake that
 - a) My ward will not indulge in any behaviour or act that may be constituted as ragging under clause 3 of the Regulations.
 - b) My ward will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.
4. I hereby affirm that, if found guilty of ragging, my ward is liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against my ward under any penal law or any law for the time being in force.
5. I hereby declare that my ward has not been expelled or debarred from admission in any institution in the country on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, the admission of my ward is liable to be cancelled.
6. Along with the above mentioned points I do hereby declare that
 - a) My ward will obey the code of conduct of the institute and do not indulge in any kind of in-disciplined activity while in and off the institution campus.
 - b) My ward will be solely responsible for any kind of accident/mishap caused on account of the above mentioned clause (6.a).

Declared this _____ day of _____ month of _____ year.

Signature of deponent
Name &
Address:-

VERIFICATION

Verified that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at (place) on this the (day) of (month) , (year) .

Signature of deponent

Solemnly affirmed and signed in my presence on this the _____ (day) of _____ (month) , _____(year) after reading the contents of this affidavit.

OATH COMMISSIONER

*Note: It is mandatory to submit this affidavit in the above format, if you
desire to register for the forthcoming academic session.*

