

# ADANI INSTITUTE OF INFRASTRURE

## STUDENT HANDBOOK –ENGINEERING PROGRAMMES

### 1. ADANI GROUP

Adani Group is India's leading integrated infrastructure conglomerate which has invested in various infrastructure verticals like resources, ports, logistics, railway, energy and agriculture to facilitate nation building. On social infrastructure front, Adani Group has set up institutions of education and healthcare. The group works directly with the communities it touches through its projects with a dedicated CSR team and strives to bring inclusive growth in India. Operating in multiple infrastructure verticals has given us the understanding of this sector, encompassing strategy, policy, planning, execution, operations, growth and sustainability. Adani Group and guided by the Infrastructure visionary of the nation, Shri Gautam Adani, established Adani Institute for Education & Research (AIER) with an objective to provide the youngsters of the nation a platform to be the "Nation Builders". AIER was instituted to impart them with requisite skills and training for contributing towards nation building.

### 2. ADANI INSTITUTE OF INFRASTRUCTURE (AII)

Adani Institute Infrastructure (All) is a self-financed institution promoted by Adani Group under AIER to enhance the cause of much needed infrastructure backbone of any economy, especially Indian economy, through educating young minds to become infra-ready technocrats and managers. **Adani Institute Infrastructure (All) is engaged in building a leading global academic institution in the infrastructure sector contributing to nation building. The Institute will generate and disseminate managerial and technological knowledge of highest value to develop next generation infrastructure professionals and impact practice through industry engagement and continuing education for practitioners.**

Adani Institute of Infrastructure has two divisions namely Adani Institute of Infrastructure Management (AIIM) and Adani Institute of Infrastructure Engineering (AIIE). AIIM is offering a 2-Year's full time residential PGDM (Infrastructure Management) whereas AIIE is offering two 4-year bachelor degree engineering programmes; one Bachelor of Engineering (Civil & Infrastructure Engg.) and another Bachelor of Engineering (Electrical Engg.). The engineering programmes are duly approved by AICTE and affiliated to the Gujarat Technological University (GTU).

### 3. ADANI INSTUTE OF INFRASTRUCTURE ENGINEERING (AIIE)

#### 3.1 VISION

- To impart the state of art infrastructural technological education at the under graduate as well as Post graduate level

- To accomplish global excellence in infrastructure technology through national as well as international collaborative initiatives and provide rigorous academic and research environment

### **3.2 MISSION**

- To establish as world class Infrastructure institution in generating and disseminating the technological knowledge of highest quality for the benefit of the mankind through continuous industry engagement and multidisciplinary research.

## **4. THE BACHELOR PROGRAMMES IN ENGINEERING**

### **4.1.1 ELECTRICAL ENGINEERING**

This program is aimed at imparting knowledge in the field of Electrical Engineering with a focus on infrastructure related engineering and will cover largely automation part of it. The thrust areas in engineering are electrical automation, electrical power, electrical services and energy systems.

The program plans to augment teaching and research infrastructure, industrial and research collaboration and adopt the modern methodologies for training the students for infrastructure related electrical engineering concepts and implementation with global perspective to create the technical manpower in infrastructural development.

Laboratories are well equipped and state of art facilities catering to the requirement of practical approach in Electrical Engineering. The programme will be taught by faculty members having hands on experience in Electrical Engineering and who have been involved in high quality research, academics and consultancy activities.

### **4.1.2 CIVIL AND INFRASTRUCURE ENGINEERING**

The Civil and Infrastructure Engineering program at AIIIE is focussed on creating the next generation of engineers who will play a pivotal role in addressing the crucial challenges faced by our nation and society. This program emphasises on nurturing engineers who will learn to not only design, build and maintain structures that are sustainable, but also find solutions to problems which will improve the quality of people's lives such as clean water, sanitation systems, waste management, energy solutions, and pollution control. The program aims to develop a strong foundation in the core civil and infrastructure engineering concepts such as structures, transportation, materials, water systems, energy etc. The comprehensive curriculum ensures that a sound understanding of the subject and its sub-disciplines is developed. Equal emphasis is placed on practical work in the form of laboratory classes, project work, surveying fieldwork, and site visits. The Studio Club, through its innovative activities has made learning engineering fun and interesting.

The program is taught by faculty members with extensive academic, research and consultancy expertise and experience in Civil and Infrastructure Engineering. The learning experience is further enhanced by continuous interaction with industry, with several

practising engineers and experts from Adani Group giving expert lectures, thereby bringing the real, ground reality of civil and infrastructure engineering to the classroom. The program through its activities is committed to ensuring that our students are ready to meet the infrastructure challenges of tomorrow!

#### **4.2 Features of the Bachelor Programmes in Engineering**

- Backed by largest integrated infrastructure conglomerate
- Extensive infrastructure industry interface and internship
- Opportunities for additional certifications
- Industry focussed curriculum
- Highly qualified faculty from academia and industry
- Ultramodern campus with up-to-date infrastructure facilities
- The course has been approved by AICTE and affiliated to Gujarat Technological University

#### **4.3 Admissions**

Admission to AIE is given as per the eligibility criteria prescribed by ACPC, for more information please visit: <http://www.jacpcldce.ac.in/>

The intakes of the programmes are as under:

- BE – Civil and Infrastructure Engineering – 60 Seats
- BE – Electrical Engineering – 60 Seats

#### **4.4 Curriculum/Programme Structure**

The Curriculum/Programme structure of both the bachelor programmes are given in **Appendix 1A and Appendix 1B. There could be minor changes in the structure/syllabus as decided by the Gujarat Technological University. Such changes if any, will be communicated prior to start of a semester.**

### **5 EXAMINATION RULES AND REGULATIONS**

All examination rules and regulations are as per rules pertaining to Bachelor of Engineering Programmes of Gujarat Technological University. Some of the general Institute rules pertaining to conduct of examinations are given below.

- 5.2 Occupy the seat allotted to you in the seating chart. Every Student should be seated in the exam hall 30 (thirty) minutes before the scheduled commencement of the paper. Entry in the examination hall after the commencement of the paper will be solely at the discretion of the examination coordinator, but in no case will the student be allowed to enter after the first half an hour of the exam.

- 5.3 Each student must wear his/her identity card and process hall ticket at all time and produce whenever asked. A student who is not displaying identity card and showing hall ticket may not be allowed to write the examination.
- 5.4 Do not go out of the examination hall without the prior permission of the invigilator.
- 5.5 No extra supplementary answer sheets will be given for rough work in any paper. Rough work can be done on last page of main answer-book.
- 5.6 Each student must bring his/her own calculator and no borrowing or lending of calculators will be permitted during the exam. Students are not allowed to keep any book, paper, scientific calculators, electronic gadgets, or any device in the examination hall.
- 5.7 Verbal or non-verbal conversation with other students is prohibited.
- 5.8 Passing, receiving or seeing answer papers of other students during examinations is strictly prohibited. Anyone who wilfully provides assistance will be considered as guilty as one who receives it. Any type of communication or even looking at other student's answer-book will be deemed to be an attempt of copying.
- 5.9 The students must ensure that the main answer-book and that each answer-sheet is signed by the supervisor.
- 5.10 At the end of the examination, the supervisor on duty would collect the answer books from the desk and therefore students should stay back until their answer books are collected. However, those who finish the examination at least fifteen minutes prior to the closing time could leave the hall earlier after handing in the answer books to the supervisor. No student will be allowed to leave the exam hall within the first half hour of commencement of exams and in the last fifteen minutes.
- 5.11 Under no circumstances are the answer books to be taken out of the classrooms. Handing in the answer books is the responsibility of the student.
- 5.12 Penalty for the breach of examination rules and regulation will be as per Gujarat Technological University rules..

## **6 EVALUATION SYSTEM**

As per the Gujarat Technological University norms

### **6.2 Eligibility for Writing Final Examination**

- 6.2.1 The Institute expects students to attend all classes.
- 6.2.2 A minimum 75% attendance is required by the student to be eligible to appear for the end-term university examination.
- 6.2.3 The institute reserves the right to allow a student with lower attendance to appear for the end-term university examination.
- 6.2.4 Read the attendance policy in [Error! Reference source not found.1](#)

## **7 ACADEMIC MISCONDUCT**

The Institute attaches utmost importance to strict integrity and honesty in all segments of academic work. Any form of dishonesty including attempt to copy or

help others copy in any manner is strictly prohibited. Unless specified otherwise by the instructor, students must not collaborate/syndicate in any manner in completion of home assignments and projects. All sources of information and ideas used for completion of the assignments and projects must be explicitly acknowledged. In other words, the non-referenced part of the answer as presented to the instructor should be the independent work of the student/s.

## **7.2 Mobile Phone**

- 7.2.1 Use of mobile phone in and around classrooms is strictly prohibited. Use of camera in a camera phone anywhere on campus for any undesired purpose is strictly prohibited.
- 7.2.2 Keep the mobile phone switched off during the class
- 7.2.3 Anyone who is in violation of these rules will be fined up to Rs. 500.
- 7.2.4 See Cell Phone Policy (**Error! Reference source not found.2**) of the Institute and abide by the same.

## **7.3 Other Norms of Conduct**

- 7.3.1 Marking proxy attendance for others or having attendance marked by others will attract severe punishments.
- 7.3.2 Cases of indiscipline or misconduct such as mass abstention from classes, irresponsible behaviour inside or outside the classes, use of unethical practices during the summer placement or violation of the rules and regulations of the programme will be severely dealt with.
- 7.3.3 It is expected that for the group assignments group members contribute equally to complete the assignment. All the members of the group should actively participate in the group assignment. Appropriate actions will be taken if the faculty observes that all the group members are not participating equally in the group projects.
- 7.3.4 It is expected that the students come prepared in the class with reading of prescribed material, preparation of cases, etc.

## **8 NON-ACADEMIC MISCONDUCT**

The Institute attaches utmost importance to professional behaviour from all students in and outside the class. Misconduct of non-academic nature is also taken very seriously in our Institute. A serious misconduct may lead to expulsion from the Institute.

### **8.2 Ragging on Campus**

Ragging of fresh students by the senior batch, in any form, is criminal offence and is strictly prohibited. Get familiarised with the Ragging-Prevention Rules and Policies (**Appendix 3**) of the Institute and comply with them.

### **8.3 Misbehaviour**

Students are expected to behave respectfully to all on our campus and outside. Any disrespectful behaviour may invite disciplinary action, as per the Institute policy, ranging from fine to expulsion from the programme.

### **8.4 Smoking is prohibited in the campus.**

### **8.5 Students are not permitted to run any commercial venture in or outside the campus. They are also not permitted to associate/help/advise any organizations**

on a commercial basis and to receive any honorarium for the services rendered during their studies at the Institute.

- 8.6 Students are required to attend the lectures organized by the Institute, as a part of the academic non-credit but compulsory activity of the programme.

## **9 CONSEQUENCES OF MISCONDUCT**

Academic and non-academic misconduct would invite severe penalty.

- 9.2 Any academic or/and non-academic misconduct may invite severe penalty ranging from a simple warning to expulsion from the programme, depending upon the severity of misconduct(s) assessed by the concerned authority.
- 9.3 Faculty may refer the case of academic misconduct to the Principal and Principal, who in turn will ask the Institute Disciplinary Committee to take a decision.
- 9.4 The cases of non-academic misconduct can be referred by anyone to the Principal and he will attempt to address the situation and decide on penalty, if any. However, if the nature of misconduct is such which may warrant severe penalty, the Principal will refer the matter to the Institute Disciplinary Committee, which will take a final decision.
- 9.5 The decision of Institute Disciplinary Committee will be conveyed by the Principal to the concerned student. The decision of the Institute Disciplinary Committee is binding to all.
- 9.6 Student has a right to make a mercy appeal to the Director. In consultation with the concerned faculty and Institute Disciplinary Committee, the Director will take a final decision on either accept or reject the mercy appeal, or change the penalty. The decision of Director shall be final. A student expelled from the programme on the ground of academic or non-academic misconduct is ineligible for seeking admission in the University.

## **10 STUDENT GRIEVANCE REDRESSAL SYSTEM**

In AIIE an informal system of expressing grievances by students and handling that for suitable solution works well because students can approach any faculty or Principal or even Director with their issues and problems. Still, we have provided for a formal Student Grievance Redressal system.

- 10.2 A student who has any grievance can call or write to the Chair of Student Grievance Committee of AIIE.
- 10.3 The Chair of the Committee will look into the matter as appropriate and put up the case with the Student Grievance Committee within a period of fifteen days for suitable action.
- 10.4 The Chair of the Committee will communicate the decision to the concerned student within seven days of Committee's decision.
- 10.5 If the concerned student is not satisfied with the redressal action, he/she can write to the Principal/Director within one week from the date of communication of action to him/her.
- 10.6 The Principal/Director will look into the matter and take appropriate decision after hearing all concerned parties and investigating the matter. The Director will

communicate the final decision to the student and concerned parties within fifteen days of the appeal.

## **11 FACILITIES**

### **11.2 Library**

AllE Library caters high-quality ambiance to the academic and research needs of the students and faculties of the institute. The mission of the Library is to continuous engagement with its users as a valuable partner in their learning and research activities.

Library has over 5000 collection on Engineering, Economics, Banking and Finance, Business Management, Marketing in Infrastructure area. Library also subscribing the print magazines, electronic journals and databases such as Ebsco Business Source Elite+, CRISIL Research, J-Gate Engineering & Technology databases which provides high-quality scholarly, company and industry information.

Library has the organizational membership of other academic institutions in order to supplement our resources and widen more resources access for our students and faculties. For details see **Appendix 4**.

### **11.3 Computer Centre (Room Hall 3/1 – Third Floor)**

Computer laboratories are equipped with high-end Intel i5 desktop DELL computers and network devices with Wi-Fi internet connectivity. Our Networks are connected via Fibre Optic cables, Routers, Switches, LAN as well as Wi-Fi hotspots to provide wireless connectivity for all the stakeholders.

Globarena Software has been procured and installed to improve communication skills. We are extensively using Moodle Learning Management System to enhance existing learning environments for students. All classrooms and laboratories are equipped with state of the art audio and visual teaching aids, best in class equipment, measuring tools and high definition closed circuit cameras. (See **Appendix 5** for details)

## **12 STUDENT ACTIVITIES**

We believe in student-driven institution when it is a matter of student activities. Students take initiatives and we provide support if the proposed activity is expected to add value.

## **13 STUDENT SUPPORT ACTIVITIES**

### **13.2 Women Development Cell (WDC)**

The Women Development Cell (WDC) has been established to conduct Programmes for the development of female students and faculty.

### **13.3 Sexual Harassment Committee**

The WDC will also act as a Sexual Harassment Committee. This committee meets twice a year and on a regular basis as and when need arises. Till date, there are no formal

complaints received by this cell regarding any sexual harassment charges against any staff or student.

#### **13.4 Ragging Prevention Committee**

The Institute has formed an Anti-Ragging Committee as per the Supreme Court directive to combat ragging on college campus. So far there are no such complaints received by the committee.

In case of any such incidence, the students can contact either the committee members or call Toll free no. **1800-180-5522**.

#### **13.5 Annual Academic Awards**

The institute makes special and conscious efforts to acknowledge commendable performances of its students. This is done through an annual Academic Award Function wherein students with appreciable performances in academics, sports, cultural and other institutional activities are felicitated and given their richly deserved awards.

#### **13.6 Medical Facility**

A note on Medical Facility is attached as Appendix 6.



## Appendix 1 Attendance Policy

1. Students of AIIE are expected to attend all classes.
2. However, we provide for certain kinds of leave of absence as follows:
  - 2.1. *Contingency leave of absence*: This is the absence granted by the concerned faculty member in case of emergency like medical issues
  - 2.2. *Authorized leave of absence*: This is the absence granted by the Principal in case a student is nominated by the Institute to represent the Institute in inter-collegiate competitions, or is participate in state, national or international level competitions.
  - 2.3. *Special leave of absence*: This is the absence granted by the Principal in case a student is required by the Institute to carry out some task assigned to him.
3. The contingency leave as per the clause 2.1 must be approved in advance, however, in case the situation cannot permit, the approval must be sought at the earliest opportunity.
4. Permissible limit
  - 4.1. The total absence contingency or authorised leave as per clauses 2.1 and 2.2 above **must not be more than 25%** in any course.
  - 4.2. The special leave of absence would be considered extra.
5. Missed quizzes/exams:
  - 5.1. A student who has missed any quiz or examination due to contingency or authorised leave of absence will not be given any make-up, unless a concerned faculty finds it appropriate.
  - 5.2. A student who has missed any quiz or examination due to special leave of absence will be eligible for the make-up.
6. Less than 75% attendance
  - 6.1. In case the absence is more than 25% as per the clauses 2.1 and 2.2 the concerned student will not be allowed to appear in the University examinations

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## **Appendix 2 Cell Phone Policy**

Cell phone is a useful gadget and its use in right places cannot be denied. However, for the purpose of facilitating the healthy academic processes, we adopt the following policy regulations regarding the use of cell phones on campus:

1. During the class all students must keep their phones in switch-off mode or silent mode.
2. If a cell phone rings during the class, or if a student is found using a cell phone in the class, the phone may be confiscated immediately by the faculty member, who will deposit the phone in the Programme Office.
3. In the classroom exams, all the students must switch-off their cell phones and keep them on the main table of the classroom. If the cell phone is found with any student during examination, it will be confiscated and deposited with the programme office.
4. The confiscated phone can be returned to the concerned student only after (a) a written apology is submitted and (b) a fine of Rs. 500 is paid by the student. This is without prejudice to the Institute's right to take suitable action against the student for breach of academic discipline.
5. The Institute has right to look up the data in the cell phone, especially when the cell phone is confiscated during examination, and if any objectionable material is found then appropriate steps will be initiated for academic malpractice.
6. The cell phone of a student, who has violated this policy third time, will be confiscated and further appropriate actions will be taken by the disciplinary committee of the Institute.

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### **Appendix 3 Ragging Prevention Policy**

The higher education community is aware that ragging in higher education institutions is a great concern of all authorities including the law enforcing agencies. Prevention and prohibition of ragging on campus is very important. In this context, the Report submitted by the Raghavan Committee constituted by the Hon'ble Supreme Court in SLP No.24295/2006 is relevant. Hon'ble Supreme Court of India accepted the various recommendations made by the Raghavan Committee and made it mandatory for the concerned to implement the following recommendations.

1. The punishment to be meted out has to be exemplary and justifiably harsh to act as a deterrent against recurrence of such incidents.
2. Every single incident of ragging where the victim or his parent/guardian or the Head of Institution is not satisfied with the institutional arrangement for action, a First Information Report must be filed without exception by the institutional authorities with the local police authorities. Any failure on the part of the institutional authority or negligence or deliberate delay in lodging the FIR with the local police shall be construed to be an act of culpable negligence on the part of the authorities by the Courts. All efforts should be made to ensure that cases involving ragging are taken up on priority basis to send the correct message that ragging is not only to be discouraged but also to be dealt with sternness.

Hence, it is emphasized that ragging of and among students of this Institution in any form at any place will not be tolerated and it is banned. For this purpose the following activities and / or actions shall be construed as the forms of ragging.

1. Ragging has several aspects with among others, psychological, social, political, economic, cultural, and academic dimensions.
2. Any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other students.
3. Indulging in rowdy or indisciplined activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student.
4. Asking any student to do any act which such student will not do in the ordinary course and which has the effect of causing or generating a sense of shame or torment or embarrassment so as to adversely affect the physique or psyche on such fresher or any other student.
5. Any act that prevents, disrupts or disturbs the regular academic activity of a student.
6. Exploiting the services of a junior student for completing the academic tasks assigned to an individual or a group of seniors.
7. Any act of financial extortion or forceful expenditure burden put on a junior student by senior students.
8. Any act of physical abuse including all variants of it: sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health or person.

9. Any act or abuse by spoken words, emails, snail-mails, blogs, public insults including deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to others;
10. Any act that affects the mental health and self-confidence of students.
11. The human rights perspective of ragging which involves the injury caused to the fundamental right to human dignity through humiliation heaped on junior students by seniors; often resulting in the extreme step of suicide by the victims.

The Institution has a Ragging-Prevention Committee headed by a senior faculty of the Institute. If the committee finds that there is a prima facie case of ragging on the complaint received, the committee will take immediate action including the filing of FIR with the local police depending on the seriousness of the case.

Any student of the Institute found indulging and / or abetting any form of ragging shall be meted out with exemplary and justifiably harsh punishment including debarring such students from taking admissions in any institutions of higher learning in the country.

Depending upon the nature and gravity of the offence as established by the Ragging-Prevention Committee of the Institute, the possible punishments for those found guilty of ragging at the Institute level shall be any one or any combination of the following:

1. Cancellation of admission
2. Suspension from attending classes
3. Withholding/withdrawing scholarship/fellowship and other benefits
4. Debarring from appearing in any test/examination or other evaluation process
5. Withholding results
6. Debarring from representing the institution in any regional, national or international meet, tournament, youth festival, etc.
7. Suspension/expulsion from the hostel
8. Rustication from the institution for a period as may be determined by appropriate authority
9. Expulsion from the institution and consequent debarring from admission to any other institution of All.
10. Fine of Rupees 25,000/-
11. Collective punishment: when the persons committing or abetting the crime of ragging are not identified, the institution shall resort to collective punishment as a deterrent to ensure community pressure on the potential raggings.

As a preventive measure, all the existing students, freshers and their parents/guardians shall submit an undertaking in the prescribed form in the beginning of the academic session itself failing which the concerned student will not be allowed to attend classes until he/she and his/her parents/guardians submit the said undertaking.

All the students of the Institute are advised to abide by the instructions scrupulously to ensure a healthy academic atmosphere and make it a ragging free campus.

Strict observance of the instructions and cooperation with the Institute in its efforts to ensure a "Ragging Free All" is highly solicited.

## **Appendix 4 Library Resources**

**Library Timings:     9:00 A.M. – 9:00 P.M. (Monday to Friday)  
                              9:00 A.M. – 4:00 P.M. (Saturday)**

1. Students must carry their identity card and library card with them, which they have to produce on demand.
2. Students are not allowed to use the library during their lecture timings.
3. Students must keep their bags in the rack placed in the library.
4. Students should not bring food / drinks into the library.
5. Students must keep silence in the library.
6. Students must switch off their mobiles in the library.
7. Books will be issued to students for a period of one week. The book must be returned or renewed on or before the due date, failing which, there will be a penalty of Rs. 2/- per day for two weeks and Rs. 5/- per day from 3rd week onwards.
8. Periodicals, CDs and DVDs will not be issued.
9. Students must sign in the register, while entering & leaving.
10. Use of Reference books will be allowed only inside the library.
11. Books taken out of the shelves must be returned to the issue counter. Replacing the books on shelves is not encouraged as they may be misplaced.
12. Book which has lost should be replaced or penalty will be taken for overdue.
13. A borrower of library material is responsible for any loss or damage. Penalty will be charged for such damage/loss.
14. Students shall not disturb the arrangement of furniture or cause any damage to the same.
15. Internet and E-mail facility in library is only for educational purpose. Misuse of these facilities will be severely dealt with.

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## **Appendix 5 Computer Centre**

**Timings:        9:00 A.M. – 6:00 P.M. (Monday to Friday)  
                  9:00 A.M. – 2:00 P.M. (Saturday)**

### **Facilities available at Central Computer Centre**

- Computer Centre is equipped with high-end Intel Core i5 desktop computers and network devices with Wi-Fi hotspots internet connectivity.
- 24 MBPS Internet Leased Line Connectivity.
- Internal networks are connected via fibre optic cables and routers and switches of Cisco.
- Windows Server 2012R2 with Microsoft Office of 2013 installed.
- Microsoft MSDN, Visual Studio
- "Globarena English Lab" Software to enhance communication skill.
- AutoCAD 2016
- Cyberoam Authentication Software
- Symantec Anti-Virus

### **Central Computer Centre Norms**

- Students' entry in computer laboratory is strictly prohibited during lecture timings.
- I-card is mandatory to get an entry into Computer Centre.
- Students can log into the system through access credentials provided by the Programme office.
- Access to internet is possible through Cyberoam authentication only.
- Connecting external devices like pen drive, CD, DVD etc. to the computers are not permitted.
- Use of mobile phones and electronic gadgets are not allowed in the Computer Centre.
- Students should not bring food & beverages into the Computer Centre.
- Students are required to maintain discipline during laboratory hours.
- Any damage to the computer and other devices including furniture in the Computer Centre have to be borne by student(s).
- Students should log in to their Moodle (a learning management software) account to access study materials, circular, examination updates etc.
- Students must shut down the system properly before leaving the Computer Centre.

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**Appendix 6**  
Note on Medical Facility

1. Medical Officer is available on the campus for consultation between 8.00 AM and 6.30 PM on all working days. The clinic is located opposite the Hostel Building. The Clinic's phone number is 9099995876.
2. **Dr. Kamlesh Satania, M.D. (Medicine)** is also available for consultation at the Institute (at AIIM Ground floor - admission office meeting room) on every Tuesday and Thursday between 2.00 PM and 4.00 PM.
3. In case of a medical emergency, please contact the Duty Manager at Extension: 56523, Mobile: 8238053767. Duty Manager will arrange for a vehicle for shifting the patient to hospital. To the extent possible, preference should be given to Emergency Ambulance Service (Toll Free Number 108) as it comes along with a well-trained Emergency Medical Technician to render quality pre-hospital care.
4. Students are free to go to any hospital or doctor of their choice. Some options are:

<b>Name &amp; Address of the Hospital</b>	<b>Phone Numbers</b>	<b>Remarks</b>
Civil Hospital, Sola Near Gujarat High Court SG Highway Ahmedabad	079-2766 4355	Government Hospital
Zydus Hospital Near Sola Bridge SG Highway Ahmedabad	8238690695, 8000565681	Multi-Specialty Corporate Hospital
Shalby Hospital Opp: Karnavati Club SG Highway Ahmedabad	079-40203265, 99044 22899	Multi-Specialty Corporate Hospital
HCG Medi-surge Hospital Opp: Lions Club Hall Near Mithakhali Circle Navrangpura Ahmedabad	079-4001 0101	Multi-Specialty Corporate Hospital
Dr. Kamlesh Fatania Devi Clinic Sagar Complex Opp: Mansi Tower Premchandnagar Road Vastrapur Ahmedabad	98254 66788, 079-26730299, 9099062135	Consulting Physician on the Institute's panel.

### Important Phone Numbers in case of Medical Emergency

Sr. No.	Name & Designation	Phone No.
1.	Clinic on the campus	Dr. Prajit Vora - No. 97129 81108 (available from 8am to 6.30pm) at the Medical Day Care Centre
		Dr. Kamlesh Satania, a visiting Doctor at AIIM Ground floor (admission office meeting room ) available from 3pm to 4pm on Tuesday and Thursday – No. 98254 66788
2.	Duty Manager at Reception-All Building	Extn. 56517
3.	Santosh Singh, Manager, Hospitality	Extn. 59312, 9099991300
4.	Dr. Satish Nair, Deputy Registrar	Extn. 55684, 9376161650



#### Disclaimer:

Please note that the Institute has a right to make changes in the rules and any other matter mentioned in this Student Handbook as may deem fit from time to time, and that the revised rules will be applicable to the current batch also.



**Appendix 1A**  
**Programme Structure –Bachelor of Civil and Infrastructure Engineering**

<b>Civil &amp; Infrastructure Engineering</b>									
<b>Semester 1st</b>									
Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Marks		Total Marks
	Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	
Calculus	3	2	0	5	70	30	30	20	150
Communication Skills	2	0	2	4	70	30	30	20	150
Elements of Electrical Engineering	4	0	2	6	70	30	30	20	150
Elements of Mechanical Engineering	4	0	2	6	70	30	30	20	150
Engineering Graphics	2	0	4	6	70	30	30	20	150
Env. Studies	3	0	0	3	70	30	0	0	100
<b>Total</b>	<b>18</b>	<b>2</b>	<b>10</b>	<b>30</b>					

<b>Civil &amp; Infrastructure Engineering</b>									
<b>Semester 2nd</b>									
Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Marks		Total Marks
	Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	
Computer Programming and Utilization	3	1	2	6	70	30	30	20	150
Workshop	0	0	4	4	0	0	80	20	100
Vector Calculus & Linear Algebra	3	2	0	5	70	30	30	20	150
Physics	3	0	2	5	70	30	30	20	150
Elements of Civil Engineering	4	0	2	6	70	30	30	20	150
Contributory Personality Development	4	0	0	4	70	30	30	20	150
<b>Total</b>	<b>17</b>	<b>3</b>	<b>10</b>	<b>30</b>					

<b>Civil &amp; Infrastructure Engineering</b>									
<b>Semester 3rd</b>									
Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Marks		Total Marks
	Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	
Advance Engineering Maths	3	2	0	5	70	30	30	20	150
Building Technology & Materials	3	0	2	5	70	30	30	20	150
Geomatics Engineering	3	0	2	5	70	30	30	20	150
Mechanics of Solids	4	0	2	6	70	30	30	20	150
Green Chemistry & Technology	3	0	2	5	70	30	30	20	150
Machineries & Equipments	3	0	0	3	70	30	0	0	100
Design Engg. I-A	0	0	3	3	0	0	80	20	100
<b>Total</b>	<b>19</b>	<b>2</b>	<b>11</b>	<b>32</b>					

**Civil & Infrastructure Engineering**

**Semester 4th**

Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Marks		Total Marks
	Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	
Concrete Technology	3	0	2	5	70	30	30	20	150
Building, Town and Infrastructure Planning	3	0	2	5	70	30	30	20	150
Fundamentals of Structural Analysis	3	0	2	5	70	30	30	20	150
Basics of Transportation Engineering	3	2	0	5	70	30	30	20	150
Numerical And Statistical Methods for Civil Engineering	3	2	0	5	70	30	30	20	150
Engineering Economics and Management	3	0	0	3	70	30	0	0	100
Design Engg. I-B	0	0	3	3	0	0	80	20	100
<b>Total</b>	<b>18</b>	<b>4</b>	<b>9</b>	<b>31</b>					

**Civil & Infrastructure Engineering**

**Semester 5th**

Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Marks		Total Marks
	Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	
Advanced Structural Analysis	3	0	2	5	70	30	30	20	150
Irrigation and Water Resource Engineering	3	1	0	4	70	30	30	20	150
Highway Engineering	3	0	2	5	70	30	30	20	150
Construction Planning & Management	3	0	2	5	70	30	30	20	150
Fluid Mechanics and Hydraulics	3	0	2	5	70	30	30	20	150
Seminar	0	0	2	2	0	0	80	20	100
Institute Elective	3	0	0	3	70	30	0	0	100
Design Engg. II-A	0	0	3	3	0	0	80	20	100
<b>Total</b>	<b>18</b>	<b>1</b>	<b>13</b>	<b>32</b>					

Institute Elective	3	0	0	3
Cyber Security	0	1	2	3
Disaster Management	3	0	0	3

**Civil & Infrastructure Engineering**

**Semester 6th**

Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Marks		Total Marks
	Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	
Design of Concrete Infrastructure	3	0	2	5	70	30	30	20	150
Water and Wastewater Treatment Technologies	3	0	2	5	70	30	30	20	150
Introduction to Soil Mechanics and Foundation Engineering	3	0	2	5	70	30	30	20	150
Basics of Renewable Energy	3	0	0	3	70	30	0	0	100
Utilities for Infrastructure Engineering	3	0	2	5	70	30	30	20	150
Departmental Elective - I	3	0	0	3	70	30	0	0	100
Seminar	0	0	2	2	0	0	80	20	100
Design Engg. II-B	0	0	3	3	0	0	80	20	100
<b>Total</b>	<b>18</b>	<b>0</b>	<b>13</b>	<b>31</b>					

<b>Departmental Elective - I</b>
Inland Water Transport
Low Cost Roads
Membrane Technology
Prestressed Concrete
Computer Aided Design of Civil Infrastructure
Heavy Construction Methods and Machines
Infrastructure Safety Engineering
Construction Techniques
Traffic Flow Theory and Management
Planning Smart Cities
Soil Exploration and Ground Improvement Techniques
Inspection and Repair of Foundations
Transmission Tower Design, Erection and Maintenance
Theory of Elasticity and Plasticity
Structural Optimization
Rural Water Supply & Sanitation
Contract Management and Arbitration
Infrastructure Wonders & Failures

**Civil & Infrastructure Engineering**

**Semester 7th**

Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Marks		Total Marks
	Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	
Summer Internship (Two Weeks)	0	0	2	2	0	0	80	20	100
Bridge, Railway & Rapid Transit Engineering	4	0	2	6	70	30	30	20	150
Infrastructure Policies & Regulations	3	0	0	3	70	30	0	0	100
Design of Masonary & Steel Infrastructure	3	0	2	5	70	30	30	20	150
Software Learning Elective	0	0	4	4	0	0	80	20	100
Departmental Elective – II	3	0	2	5	70	30	30	20	150
Project – I	0	0	6	6	70	30	30	20	150
<b>Total</b>	<b>13</b>	<b>0</b>	<b>18</b>	<b>31</b>					

<b>Departmental Elective – II</b>	3	0	2	5
Urban Transportation Systems Planning	3	0	2	5
Environmental Sanitation	3	0	2	5
Advanced Soil Mechanics and Foundation Engineering	3	0	2	5
Repair, Retrofitting and Rehabilitation	3	0	2	5
Design and Construction of Offshore Infrastructures	3	0	2	5
Value Engineering	3	2	0	5
<b>Software Learning Elective</b>	0	0	4	4
Tool of Road Design	0	0	4	4
Tool of Piping Design	0	0	4	4
Green Building Design Studio	0	0	4	4
STAAD Pro	0	0	4	4
Structural Analysis Tool	0	0	4	4
Drawing Tool	0	0	4	4
AutoCAD and Google Skecthup	0	0	4	4
Tool of Geographical Information System (GIS)	0	0	4	4
Object Oriented Programming and Data Structures	0	0	4	4
Building Information Modeling (BIM) Tool	0	0	4	4
Project Planner Tool	0	0	4	4

**Civil & Infrastructure Engineering**

**Semester 8th**

Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Marks		Total Marks
	Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	
Winter Internship (Two Weeks)	0	0	2	2	0	0	80	20	100
Professional Practice and Valuation of Infrastructure	3	2	0	5	70	30	30	20	150
Airport Infrastructure Planning and Design	3	1	0	4	70	30	30	20	150
Port Infrastructure, Terminals and Logistics	3	0	0	3	70	30	0	0	100
Project – II	0	0	8	8	0	0	80	20	100
Departmental Elective – III	3	0	2	5	70	30	30	20	150
Departmental Elective – IV	3	0	2	5	70	30	30	20	150
<b>Total</b>	<b>15</b>	<b>3</b>	<b>14</b>	<b>32</b>					

<b>Departmental Elective – III</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>5</b>
Pavement Design and Management	3	0	2	5
Environmental Impact Assessment & Legislation	3	0	2	5
Air Pollution Control Techniques	3	0	2	5
Design of Earthquake Resistant Structures	3	0	2	5
High-rise Structures	3	0	2	5
Project Implementation and Material Management	3	2	0	5
Advanced Construction Technology	3	2	0	5
Structural Health Monitoring and Retrofitting	3	2	0	5

<b>Departmental Elective – IV</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
Irrigation and Flood Control Engg.	3	2	0	5
Design of Electrical System in Building	3	0	2	5
Finite Element Method in Civil Engineering	3	0	2	5
Introduction to Remote Sensing and GIS	3	0	2	5

**Appendix 1B**  
**Programme Structure –Bachelor of Electrical Engineering**

**ELECTRICAL ENGINEERING**

SEM - I												
Subject Code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial Work/Practical Marks			Total Marks	Remarks
		Theory	Tutorial	Practical		ESE (E)	PA (M)	Viva (V)	PA (I)			
<a href="#">2110014</a>	Calculus	3	2	0	5	70	30	30	20	150		
<a href="#">2110002</a>	Communication Skills	2	0	2	4	70	30	30	20	150		
<a href="#">2110005</a>	Elements of Electrical Engineering	4	0	2	6	70	30	30	20	150		
<a href="#">2110007</a>	Environmental Studies	3	0	0	3	70	30	0	0	100		
<a href="#">2110003</a>	Computer Programming and Utilization	3	1	2	6	70	30	30	20	150		
<a href="#">2110006</a>	Elements of Mechanical Engineering	4	0	2	6	70	30	30	20	150		
	<b>Total</b>	<b>19</b>	<b>3</b>	<b>8</b>	<b>30</b>							
<b>Core Infrastructure - 1</b>	<b>Concept of Infrastructure, Urban Planning and SEZ</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>5</b>	<b>70</b>	<b>30</b>	<b>30</b>	<b>20</b>	<b>150</b>	<b>Institute Level Core Subject to be delivered by Infrastructure Professionals</b>	

SEM - II												
Subject Code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial Work/Practical Marks			Total Marks	Remarks
		Theory	Tutorial	Practical		ESE (E)	PA (M)	Viva (V)	PA (I)			
<a href="#">2110015</a>	Vector Calculus & Linear Algebra	3	2	0	5	70	30	30	20	150		
<a href="#">2110013</a>	Engineering Graphics					70	30	30	20	150		
<a href="#">2110011</a>	Physics	3	0	2	5	70	30	30	20	150		
<a href="#">2110016</a>	Basic Electronics	4	0	2	6	70	30	30	20	150		
<a href="#">2110017</a>	Electrical and Electronics Workshop	0	0	4	4	0	0	80	20	100		
<a href="#">2990001</a>	Contributor Personality Development					70	30	30	20	150		
	<b>Total</b>	<b>16</b>	<b>2</b>	<b>12</b>	<b>30</b>							
<b>Core Infrastructure - 2</b>	<b>Rail and Road</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>5</b>	<b>70</b>	<b>30</b>	<b>30</b>	<b>20</b>	<b>150</b>	<b>Institute Level Core Subject to be delivered by Infrastructure Professionals</b>	

SEM - III											
Subject Code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial Work/Practical Marks			Remarks
		Theory	Tutorial	Practical		ESE (E)	PA (M)	Viva (V)	PA (I)	Total Marks	
<a href="#">2130002</a>	Advance Engineering Mathematics	3	2	0	5	70	30	30	20	150	
<a href="#">2130004</a>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	
<a href="#">2130901</a>	Circuits and Networks	4	0	2	6	70	30	30	20	150	
<a href="#">2131004</a>	Digital Electronics	4	0	2	6	70	30	30	20	150	
<a href="#">2131005</a>	Electrical Machines	3	0	2	5	70	30	30	20	150	
<a href="#">2131006</a>	Electronic Devices and Circuits	4	0	2	6	70	30	30	20	150	
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	
	Total	21	2	8	34						
<b>Core Infrastructure - 3</b>	<b>Ports and Logistics</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>70</b>	<b>30</b>	<b>30</b>	<b>20</b>	<b>150</b>	<b>Institute Level Core Subject to be delivered by Infrastructure Professionals</b>

SEM - IV											
Subject Code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial Work/Practical Marks			Remarks
		Theory	Tutorial	Practical		ESE (E)	PA (M)	Viva (V)	PA (I)	Total Marks	
<a href="#">2140910</a>	Digital Electronics	3	0	2	5	70	30	30	20	150	
<a href="#">2140906</a>	AC Machines	4	0	2	6	70	30	30	20	150	
<a href="#">2140907</a>	Applied Thermal and Hydraulic Engineering	3	0	0	3	70	30	0	0	100	
<a href="#">2140908</a>	Electrical Power Generation	4	0	2	6	70	30	30	20	150	
<a href="#">2140909</a>	Field Theory	3	2	0	5	70	30	30	20	150	
<a href="#">2141005</a>	Signals and Systems	3	0	2	5	70	30	30	20	150	
<a href="#">2140002</a>	Design Engineering - I B	0	0	3	3	0	0	80	20	100	
	Total	20	2	8	33						
<b>Core Infrastructure - 4</b>	<b>Renewable Energy</b>	<b>3</b>		<b>2</b>	<b>5</b>	<b>70</b>	<b>30</b>	<b>30</b>	<b>20</b>	<b>150</b>	<b>Institute Level Core Subject to be delivered by Infrastructure Professionals</b>

SEM - V											
Subject Code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial Work/Practical Marks		Total Marks	Remarks
		Theory	Tutorial	Practical		ESE (E)	PA (M)	Viva (V)	PA (I)		
<a href="#">2150903</a>	Power Electronics – I	3	0	2	5	70	30	30	20	150	
<a href="#">2150907</a>	Microprocessor and Microcontroller Architecture & Interfacing	4	0	2	6	70	30	30	20	150	
<a href="#">2150908</a>	Electrical Power System – I	3	0	0	3	70	30	0	0	100	
<a href="#">2150909</a>	Control System Engineering	4	0	2	6	70	30	30	20	150	
<a href="#">2150904</a>	Elements of Electrical Design	2	0	2	4	70	30	30	20	150	
<a href="#">2150001</a>	Design Engineering - II A	0	0	3	3	0	0	80	20	100	
<a href="#">2150002</a>	Institute Elective - Cyber Security	0	1	2	3	0	0	80	20	100	
<a href="#">2150003</a>	Institute Elective - Disaster Management	3	0	0	3	70	30	0	0	100	
	Total				30						
<b>Core Infrastructure - 5</b>	<b>Water and Waste Water Management</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>70</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>Institute Level Core Subject to be delivered by Infrastructure Professionals</b>



Semester VI											
Subject Code	Subject Name	Teaching Scheme(Hours)				Uni Exam (Theory) (E)	Uni Exam (Practical) (E)	Continuous Evaluation Process	Practical (I)	Total Marks	Remarks
		Theory	Tutorial	Practical	Credits						
160901	Electrical Machine - III	3	0	2	5	70	—	30	50	150	
160902	Power Electronics - II	4	0	2	6	70	—	30	50	150	
160903	Microcontroller	3	0	2	5	70	—	30	50	150	
160904	High Voltage Engineering	4	0	2	6	70	—	30	50	150	
160905	Electrical & Electronic Measurement	3	0	2	5	70	—	30	50	150	
160906	Theory of Electromagnetics	3	0	0	3	70	—	30	50	150	
	TOTAL	20	0	10	30						
<b>Core Infrastructure - 6</b>	<b>Power</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>5</b>	<b>70</b>	<b>—</b>	<b>30</b>	<b>50</b>	<b>150</b>	<b>Institute Level Core Subject to be delivered by Infrastructure Professionals</b>

Semester VII											
Subject Code	Subject Name	Teaching Scheme(Hours)				Uni Exam (Theory) (E)	Uni Exam (Practical) (E)	Continuous Evaluation Process	Practical (I)	Total Marks	Remarks
		Theory	Tutorial	Practical	Credits						
170901	Inter Connected Power System	3	0	2	5	70	30	30	20	150	
170902	Electrical Machine Design-I	3	0	2	5	70	30	30	20	150	
170903	Power System Protection	3	0	2	5	70	30	30	20	150	
170904	Industrial Instrumentation	3	0	2	5	70	30	30	20	150	
170905	Advanced Power System - I (Department Elective - I)	4	0	2	6	70	30	30	20	150	
170906	Advanced Power Electronics - I (Department Elective - I)	4	0	2	6	70	30	30	20	150	
170907	Advanced Microcontrollers & Embedded System	4	0	2	6	70	30	30	20	150	
170001	Project - I	0	0	4	4	0	100	0	50	150	
	TOTAL	16	0	14	30						
<b>Core Infrastructure - 7</b>	<b>Roads and Bridges</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>5</b>	<b>70</b>	<b>—</b>	<b>30</b>	<b>50</b>	<b>150</b>	<b>Institute Level Core Subject to be delivered by Infrastructure Professionals</b>

Semester VIII		Teaching Scheme (Hours)				Uni Exam (Theory) (E)	Uni Exam (Practical) (E)	Continuous Evaluation Process	Practical (I)	Total Marks	Remarks
Subject Code	Subject Name	Theory	Tutorial	Practical	Credits						
180901	Commissioning of Electrical Equipment's	3	0	2	5	70	30	30	20	150	
180902	Electrical Power Utilization	3	0	0	3	70	0	30	50	150	
180903	Power System Practice and Design	3	0	0	3	70	0	30	50	150	
180904	Electrical Machine Design II	3	0	2	5	70	30	30	20	150	
180905	Project II	0	0	8	8	0	100	0	50	150	
180906	Advanced Power System II (Department Elective - II)	4	0	2	6	70	30	30	20	150	
180907	Advanced Power Electronics II (Department Elective - II)	4	0	2	6	70	30	30	20	150	
180908	Advanced Processor and Controllers (Department Elective - II)	4	0	2	6	70	30	30	20	150	
TOTAL		16	0	14	30						
<b>Core Infrastructure - 8</b>	<b>Airports</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>5</b>	<b>70</b>	<b>—</b>	<b>30</b>	<b>50</b>	<b>150</b>	<b>Institute Level Core Subject to be delivered by Infrastructure Professionals</b>