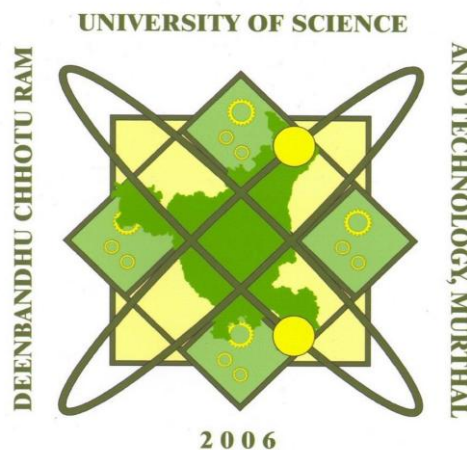


**SIX- MONTHS CERTIFICATE COURSE
ON
ANTI-DRONE TECHNOLOGY
PROSPECTUS
(2022-23)**

**DEPARTMENT OF ELECTRONICS &
COMMUNICATION ENGINEERING**



**DEENBANDHU CHHOTU RAM UNIVERSITY OF
SCIENCE & TECHNOLOGY MURTHAL (SONEPAT),
HARYANA-131039**

(Established by State Legislative Act 29 of 2006 & approved under Section 12

(B) & 2 (f) of UGC Act, 1956)(NAAC 'A' Grade State University)

www.dcrustm.ac.in

December 2022

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CHAPTER – 1

ABOUT THE DEPARTMENT

Introduction

The Department of Electronics & Communication Engineering (ECE) occupies a prominent place within the overall structure of the University since its inception in 1987. The Department offers B.Tech. Programme in ECE with an intake of 120, M.Tech. Programme in ECE with an intake of 18, and M.Tech. Programme in ECE (VLSI Design) with an intake of 18 respectively. In addition to this, 50 research scholars have been enrolled/registered in Ph.D. programme. Both UG and PG programmes had NBA accreditation and renewal of NBA accreditation for both the programmes is under process. The UG and PG curriculum is designed with the inputs from eminent academia and relevant industries in such a way that optimum magnitude has been assigned to basic as well as advance course so as to keep the students abreast of basics as well as advances in the specific areas of technology. The department strives to keep various courses up-to-date so that these reflect current developments. The faculty members constantly endeavour & engage themselves in curriculum design. The department has well-equipped laboratories with all modern facilities for conducting basic as well as advance experiments for both UG and PG programmes. The students are motivated to target the problems of industry for carrying out their major project at B.Tech. level, thesis work at M.Tech. level and research work at Ph.D. level. The faculty members are actively engaged in research in the fields of VLSI, Image Processing, Digital Design, Embedded Design, Optical Communication, Digital Signal Processing etc. The faculty members not only keep themselves abreast of latest developments in thrust areas of ECE but also have delivered Key-note address, invited talk, expert lecture, chaired Technical Session, presented research paper etc. at International & National levels. The faculty members have also been on Advisory Boards / Committees of various academic bodies and several National & International Conferences. The faculty members have reputed research publications in International & National Journals such as IEEE, IEE, IE(I), IETE, ELSEVIER, Springer, Taylor & Francis etc. & in International & National Conference Proceedings. The faculty members have published books in various thrust areas of ECE such as communication Engineering, mobile communication etc. The departmental laboratories have been modernized using financial grants from World Bank under TEQIP (I, II and III), Haryana Government etc. The department has organized number of National Level Conferences /Workshops / Short Term Training Programmes sponsored by TEQIP (I, II and III), AICTE, UGC etc. The department has also been occasionally organizing expert lectures of researchers from academia & industry of national & international repute.

Vision

To become a pioneer department of university by producing skilled, innovative, entrepreneur and ethical Technical Manpower in the core & related areas of Electronics & Communication Engineering, meeting the needs of the Society, High-end Research and Industry

Mission

- M1:** Endowing the curriculum subsuming the theoretical knowledge and practical hands on.
- M2:** Earnest focus on student-centric learning.
- M3:** Emphasis on achieving self-sustainability by collaborating with industry, academia and research institute.
- M4:** Exposure to emerging real-world applications.
- M5:** Thrust on overall development of students to build a healthy society by inculcating Human & Moral values.

CHAPTER – 2

FACULTY PROFILE

S.No.	Name of Faculty Member	Designation	Highest Qualification	Specialization (s)
1.	Dr. Manoj Duhan	Professor	Ph.D.	VLSI, DSP, Reliability, Analog Devices
2.	Dr. Amit Kumar Garg	Professor	Ph.D.	Optical Fiber Communication Systems and Networks, DSP
3.	Dr. Priyanka	Professor and Chairperson	Ph.D.	DSP, Image Processing, SAW Filter
4.	Dr. S. K. Grewal	Professor	Ph.D.	Instrumentation & Communication
5.	Dr. Poonam Singal	Professor	Ph.D.	Optical Communication Systems & Networks
6.	Dr. Gitanjali Pandove	Professor	Ph.D.	Communication & Information Systems
7.	Mr. Manish Jain	Associate Professor	B.E.	Micro Electronics, Digital Image Processing
8.	Dr. Mridul Chawla	Professor	Ph.D.	Electronics Product Design & Technology, Evolutionary Computing
9.	Dr. Rajeshwar Dass	Associate Professor	Ph.D.	Image Processing, Wireless Communication, DSP,
10.	Dr. Prachi Chaudhary	Assistant Professor	Ph.D.	Image Processing, DSP, Microprocessor and Microcontroller
11.	Dr. Sunita Dahiya	Assistant Professor	Ph.D.	Micro Electronics, Wireless Communication
12.	Dr. Rekha Yadav	Assistant Professor	Ph.D.	VLSI Design
13.	Dr. Himanshi Saini	Assistant Professor	Ph.D.	Optical Communication, VLSI
14.	Dr. Kusum Dalal	Assistant Professor	Ph.D.	Wireless Communication, Antenna Design
15.	Ms. Rajni	Assistant Professor	M. Tech.*	Image & Signal Processing
16.	Mr. Charanjeet Singh	Assistant Professor	M. Tech.*	Communication Systems, VLSI, Antenna
17.	Dr. Vikas Nehra	Assistant Professor	Ph.D.	Analog & Digital, VLSI, ESD

*pursuing Ph.D.

TECHNICAL AND SUPPORTING STAFF

Name	Designation	Qualification	Remarks
Sh. Naresh Kumar	Technical officer	BCA	Regular
Sh. Harbans Lal	A.T.O.	M.Sc.	Regular
Sh. SatishYadav	A.T.O.	M.Tech.	Regular
Sh. Pankaj	A.T.O.	Pursuing Ph.D.	Regular
Sh. Rajesh Kumar	A.T.O.	M. Tech.	Regular
Sh. Surender Kumar	Lab Tech. 'A'	M. Tech	Regular
Sh. Sher Singh	Lab Tech. 'A	B.Tech.	Regular
Sh. Pardeep Kumar	Lab Tech 'A'	M.Tech.	Regular
Sh. Viresh	Assistant	MBA	Regular
Sh. Arun Kumar	Lab Attendant	12 th	On contract basis
Sh. Mandeep	Lab Attendant	BBA	On contract basis
Sh. Rajdeep	Peon	12 th	On contract basis

CHAPTER – 3

INFRASTRUCTURE

Availability of Infrastructure:

Classrooms	5
Laboratories	7
Faculty rooms	16

Laboratories:

Room No.	Name of Lab	Lab Technician	Teacher Incharge
MV-306	ESD, Microcontroller, Communication System, Microprocessor	Sh. Satish Yadav	Dr. Sunita Dahiya
MV-307	EMI, Microwave and Radar Engineering	Sh. Harbans Lal	Dr. Kusum Dalal
MV-308	AEC, Satellite Comm., Optical Comm.	Sh. Pankaj Mukhija	Dr. Himanshi Saini
MV-309	Analog Electronics, Electronics Engg.	Sh. Sher Singh	Sh. Manish Jain
MV-310	Project Lab, Digital Electronics	Sh. Surender Kumar	Dr. Rajeshwar Dass
MV-311	DSP, Adv Image Processing, DVLSI, Verilog based DSD, Digital CMOS IC Design Lab, HDL based system design, Analog CMOS IC design.	Sh. Rajesh Kumar	Dr. Prachi Chaudhary
MV-314	AWC, Mixed Signal IC, Robotics Lab.	Sh. Pardeep Kumar	Dr. Vikas Nehra

CHAPTER – 4

ANTI-DRONE TECHNOLOGY

Introduction:

The drone technology is used vastly in various fields to help the mankind. However, the misuse of drone technology has posed serious threats to the security. Anti-Drone Technology or defense system allows neutralization or disabling any kind of Drones in the area. Drones or Unmanned Aerial Vehicle (UAV) systems have been utilized by military forces for years. The Anti-Drone Technology system plays a vital role in the security of the country. Today, Drones could easily be used for spying, surveillance and even delivering terror from the sky. The attention therefore is now shifting to proactive defense systems and Anti-drone technology.

Objective:

To explore the possible solution for the different threats posed by the drone technology in the current scenario.

Outcomes:

After the completion of the course the students will able to learn about:

1. Awareness about different rules and regulations for operating the drones.
2. The major threats caused by misapplication of drone technology.
3. Different types of anti-drone techniques to efficiently detect the Unmanned Aerial Vehicles (UAV).
4. Design low cost, reliable and efficient Anti- Drone systems.

Opportunities:

After the completion of the course the candidate:

1. Can work in service sector related to drone technology.
2. Can initiate their own startup in the area of Drone manufacturing.
3. Can join the aviation sector for providing the reliable solution to threat by the misuse of drones.
4. Can explore the different application of drones in the areas of agriculture, health care and tough terrain conditions.
5. Has the opportunity to register for specialized courses such as Sensor technology, Artificial Intelligence, Instrumentation etc.

CHAPTER – 5

COURSE DETAILS

Type of Course:	Certificate Course
Title of Course:	Anti-Drone Technology
Duration:	06 Months
Target Groups:	Diploma/ITI
Number of seats:	18
Course Credits:	15
Eligibility:	At least 60% marks in Diploma/ ITI from any technical discipline. Seats will be filled first by Diploma holders and then by ITI based on academic merit of qualifying examination.

SCHEDULE OF EVENTS

Sr. No.	Event	Date and Time	
1.	Online filling of application form	05.01.2023 to 20.01.23	
2.	Display of merit list	25.01.23	
		Date and Time	Fee to be deposited by
1.	1 st Physical Counseling	30.01.2023	31.01.2023
2.	2 nd Physical Counseling	02.02.2023	03.02.2023
3.	3 rd Physical Counseling	05.02.2023	06.02.2023

CLASSES WILL START FROM*: 7.02.2023

* The course/classes will be started subject to the condition that minimum **five (5) students** should take admission in this course.

Note:

1. Refer university website regularly for any update. The detailed schedule of counseling will be notified on or before the last date of submission of online application forms.
2. The schedule for 4th/5th counseling (if required) will be displayed on university website www.dcrustm.ac.in, after third counseling

For any information contact:

ECE Department
DCRUST, Murthal
Landline No. 0130-2484146

CHAPTER – 6

SCHEME AND SYLLABI

**DEENBANDHU CHHOTU RAM UNIVERSITY OF SCIENCE & TECHNOLOGY,
MURTHAL (SONEPAT)**

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SIX-MONTHS CERTIFICATE COURSE ON ANTI-DRONE TECHNOLOGY

S. No.	Course No.	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credit	Duration of Exam
			L	T	P		Theory	Practical			
1	CADT101	Introduction to Drone Technology	3	1	0	25	75	-	100	4	3
2	CADT102	Image Processing for Drone Technology	3	1	0	25	75	-	100	4	3
3	CADT103	Anti-Drone Technology	3	1	0	25	75	-	100	4	3
4	CADT111	Drone Technology Lab	0	0	3	25	-	75	100	1.5	3
5	CADT112	PCB Design and Programming Lab	0	0	3	25	-	75	100	1.5	3
Total			9	3	6	125	225	150	500	15	

CADT101 INTRODUCTION TO DRONE TECHNOLOGY

L	T	P	Credits	Class Work	: 25
3	1	0	4	Examination	: 75
				Total	: 100
				Duration of Exam	: 3 Hours

Unit-1

Introduction: Basics of drone, Drone use, Risks of using drones, Classification of drones, Future of drones.

Unit-2

Drone components, Drone jammer, Drone maintenance, Internet of Drone Things (IoDT): Introduction, Application and Challenges.

Unit-3

Legal regulations, Permission and License for drones in India; Legal rules, Permissions and License for drones at international platform, best practices for flying drones, Acquiring and working with drone data: Imagery and videos; photogrammetry and processing the data.

Unit-4

Sensors and transducers in drone technology: Sensors: Basics of sensors, sensors used in drone technology: accelerometers, gyroscope, magnetic compass and barometer sensor. Transducers: Introduction, Types of transducers: LVDT, LDR, RTD, thermocouple, strain-gauze.

Course Outcomes:

At the end of the course, students will demonstrate the ability to:

1. Understand basics of drone technology.
2. Understand various drone components and details about IoDT.
3. Understand various issues related with legal regulations and permission for flying drones in India as well as abroad. Also, the students will be able to collect, analyse and process various types of drone data.
4. Understand the principles of operation and characteristics of various transducers and sensors used in drone technology.

Text Books:

1. Nitin Goyal, Sharad Sharma, Arun Kumar Rana, and Suman Lata Tripathi, "Internet of Things: Robotics and Drone Technology", CRC Press-Taylor & Francis Group, First Edition, 2022.
2. Daniel Tai, and Jon Altschuld, "Drone Technology in Architecture, Engineering, and Construction: A strategic Guide to Unmanned Aerial Vehicle Operation and Implementation", Wiley, First Edition, 2021.

3. A.K Sawhney(1997), Electrical & Electronics Measurement and Instrumentation ,Dhanpat Rai & Co. Ltd.

Reference Material:

1. Kim, K. User Preferences in Drone Design and Operation. *Drones* **2022**, 6, 133. <https://doi.org/10.3390/drones6050133>
2. Petrovski, Aleksandar & Radovanović, Marko. (2021). Application Of Detection Reconnaissance Technologies Use By Drones In Collaboration With C4IRS For Military Interested. 21. 117-126.
3. Online link for Drone License in India: <https://www.dronelicenseinindia.in/2018/09/registering-for-drone.html>.
4. Online link for Classification of Drones: <https://cfdflowengineering.com/classification-and-application-of-drones/>
5. Online link for Drone Jammer: <https://www.stratign.com/what-does-a-drone-jammer-do-and-subsystems-of-a-drone-jammer/>
6. Online link for Drone Components: <https://grinddrone.com/drone-features/drone-components>
7. Online link for Drone maintenance: <https://www.9tenthsco.com/post/drone-maintenance>
8. Online link for legal regulations of Drones in India: <https://lawtimesjournal.in/regulations-drones-india/>
9. Online link for sensors: <https://www.electronicshub.in/technology-trends/sensors-connectivity-drones>

Note:

1. At the end of certificate course, the paper setter will set two questions from each unit (total 8 questions in all), covering the entire syllabus. Students will be required to attempt only five questions, selecting atleast one question from each unit.
2. The use of scientific calculator will be allowed in the examination. However, programmable calculator, mobile phones or other electrical/ electronic items will not be allowed in the examination.

L	T	P	Credits	Class Work	: 25
3	1	0	4	Examination	: 75
				Total	: 100
				Duration of Exam	: 3 Hours

Unit 1

Fundamentals for image processing: Components of an Image Processing System, steps in Image Processing, Basic Concepts in sampling and quantization of images, Representing Digital Images, Spatial and Intensity Resolution, image quality and storage requirements.

Unit 2

Need for Image Processing in drone technology, Applications of image processing in drone technology: Agriculture, wildlife surveys, Geomorphology, Historical and Cultural Heritage Preservation, Atmospheric Studies etc.

Unit 3

General considerations for capturing images with drones: Radiometric Errors and Effects, Radiometric Correction, Geometric Errors and Effects, Georeferencing and Geometric Correction, Doming and Dishing.

Unit 4

Image Enhancement and Classification for Drone Technology: Radiometric Enhancement, Spatial Enhancement, Spectral Enhancement, Image Classification, Image Capturing and Data Extraction.

Text Books:

1. Amy Frazier, Kunwar Singh, “Fundamentals of Capturing and Processing Drone Imagery and Data”, CRC Press, 1st Edition, 2021.
2. Rafael C. Gonzalez and Richard E. Woods, “Digital Image Processing”, 3rd Edition, Pearson Education, 2016.

Reference Books:

1. Anil K Jain, “Fundamentals of Digital Image Processing”, Pearson Education, 2015.
2. Ron Graham, Alexander Koh, “Digital Aerial Survey: Theory and Practice”, Whittles Publishing 1st Edition, 2002.

Course Outcomes:

At the end of the course, students will demonstrate the ability to:

1. Understand, represent, and analyse image processing concepts used in drone technology
2. Relate and understand image processing for various applications.
3. Interpret drone image quality, various effects, and correct images accordingly.

4. Choose image processing techniques for drone technology as per the application and apply the image processing concepts practically.

Note:

1. At the end of certificate course, the paper setter will set two questions from each unit (total 8 questions in all), covering the entire syllabus. Students will be required to attempt only five questions, selecting atleast one question from each unit.
2. The use of scientific calculator will be allowed in the examination. However, programmable calculator, mobile phones or other electrical/ electronic items will not be allowed in the examination.

L	T	P	Credits
3	1	0	4

Class Work	: 25
Examination	: 75
Total	: 100
Duration of Exam	: 3 Hours

Unit 1

Introduction to Radar: Radar Block Diagram, Radar Frequencies, Simple form of Radar Equation, Prediction of Range Performance, Minimum detectable signal, Pulse repetition frequencies and range ambiguities, Clutter,

Detection and Elimination of drones using radars: Identification of drones using image analysis, Prediction of range and velocity of drones, Positioning of lasers on drones

Unit 2

Drone Threats and Detection Challenges: Drone movement: Lift, Directional control, Movements, Remote control and Wi-Fi, GPS, Drone Incidents, Drone threats, Drone detection Challenges. Image based drone detection, Thermal image based drone detection, Acoustic based drone detection, Video based drone detection, RF based drone detection.

Unit 3

Anti-Drone System: Anti-drone system requirements, Block diagram of anti-drone system, Drone neutralization, Kinetic energy based neutralization such as Missiles, Guns, and Net Guns, DEWs for Drone neutralization (High Energy Microwave, High Power Lasers), Radio frequency Jammers, GPF Spoofers Non-radar anti drone systems, radar anti-drone system, Use of Artificial intelligence for Anti-drone systems.

Unit 4

Indian Anti Drone DEW: System Configuration, High power lasers, Beam directing optics, Beam combining techniques, Thermal management unit, Glimbal system, Closed loop control of video tracker, Fire control System.

Text/Reference Books:

1. Daniel Tai, and Jon Altschuld, “ Drone Technology in Architecture, Engineering, and Construction: A strategic Guide to Unmanned Aerial Vehicle Operation and Implementation”, Wiley, First Edition, 2021.
2. Merrill I. Skolnik, “Introduction to Radar Systems”, McGraw-Hill Pub. , Third Edition.

Course Outcomes:

At the end of the course, students will demonstrate the ability to:

1. Learn about the basics of radar that is used for the detection of drones.
2. Detect threats and challenges related to the drone technology.
3. Understand various types of anti-drone systems.
4. Use of novel artificial intelligence techniques for anti-drone systems.

Reference Material

1. S. Park, H. T. Kim, S. Lee, H. Joo, H. Kim, "Survey on Anti-Drone Systems: Components, Designs, and Challenges" *IEEE Access*, vol. 9, pp. 42635-42659, March 2021.
2. Y N. Jurn, S. A. Mahmood, J. A. Aldhaibani, "Ant-Drone system based different technologies: Architecture, Threats and challenges" *11th IEEE International Conference on Control System, Computing and Engineering (ICCSCE 2021)*, Penang, Malaysia, 27-28 August 2021.
3. B. R. Van Voorst, "Counter drone system," U.S. Patent 15 443 143, Sep. 14, 2017.
4. iHLS. (2020). Revolutionary Counter-Drone Technology Developed by Israel Startup. Accessed: Jun. 17, 2022. [Online]. Available: <https://ihls.com/archives/84770>

Note:

1. At the end of certificate course, the paper setter will set two questions from each unit (total 8 questions in all), covering the entire syllabus. Students will be required to attempt only five questions, selecting atleast one question from each unit.
2. The use of scientific calculator will be allowed in the examination. However, programmable calculator, mobile phones or other electrical/ electronic items will not be allowed in the examination.

CADT111 DRONE TECHNOLOGY LAB

L T P Credits
0 0 3 1.5

Class Work : 25
Examination : 75
Total : 100
Duration of Exam : 3 Hours

List of Experiments

1. To study different types of electronic components; i.e Resistor, Capacitor, Inductor, Diode, Transistor, FET, MOSFET etc.
2. To study about different types of ports (RS232, RS422, RS485, UART ports.), connectors and different types of SMD IC packages.
3. To study about different Sensors i.e Wi fi devices, RADAR and range finder, GPS receiver, Gyro sensor, Speed and Distance sensor, Image sensor, TOF sensor, Chemical sensor, Barometers, Accelerometer, Magnetometer and remote control for drone etc.
4. To measure temperature using Thermocouple, Thermistor and RTD.
5. To measure displacement using LDR and LVDT.
6. To get aware about Battery and its management i.e Introduction of Battery, Description of Li-Po Battery, Charging / Discharging of Battery. Back up, Ratings, Shelf Life, Maintenance and safety of Battery. Selection criteria of Battery for Drone application.
7. To study about Cameras in drones and selection criteria of camera for different range.
8. To identify different features of controls of HD and thermal image of camera used in drone.
9. To perform various operations on images captured by drones using MATLAB i.e image reading, writing, filtering, enhancement, segmentation and classification.
10. To practice 2D and 3D commands in Auto CAD.
11. To create explode views of drone components assembly using CAD software.
12. To practice plain, turning, knurling, drilling, boring, reaming , tapping and to prepare a lap joint using gas welding.
13. To measure the frequency and level of RF signals using spectrum analyzer.
14. To set up the link between transmitter and receiver and to get the idea about Radio Control System i.e Introduction of radio control system, Controllers, Transmitter and Receiver, Flight Controllers, Electronic Speed Controller etc.

Course Outcomes:

At the end of the course, students will demonstrate the ability to:

1. Perform manufacturing operations pertaining to UAV making.
2. Gain operational knowledge of any drone.
3. Gain expertise in thinking as to enhance innovations in the fields of drones.
4. To fly their drones with full knowledge of different legal limitations.

Note:

1. To allow fair opportunity of practical hands on experience to each student, each experiment may be either done by each student individually or in group of not more than 3-4 students. Larger groups be strictly discouraged/disallowed.
2. Ten experiments are to be performed out of which at least seven experiments should be performed from the above list. Remaining three experiments should be performed from the above list or designed and set by the concerned department as per the scope of the syllabus.

CADT112 PCB DESIGN AND PROGRAMMING LAB

L	T	P	Credits	Class Work	: 25
0	0	3	1.5	Examination	: 75
				Total	:100
				Duration of Exam	:3 Hours

List of Experiments

1. To study of lab equipment and components like CRO, function generator digital multi-meter & active and passive components with their ratings.
2. Identification of various type of printed circuit board (PCB) and soldering technique.
3. Introduction to PCB design software.
4. Testing of electronic circuits.
5. Preparation of layout and artwork layout planning.
6. To design a PCB layout using Express PCB/TINA/ Eagle software/ OrCAD software for single sided PCB.
7. PCB Lab (a) preparation of negative (-ve) from film (b) etching & drilling of PCB.
8. To implement the control of blinking of an LED using Arduino.
9. To interface Arduino with Light Dependent Resistor (LDR) and Infra-Red (IR) sensor.
10. To interface an Ultrasonic sensor with Arduino using Arduino IDE.
11. To interface the PIR sensor with Arduino.
12. To interface a sound sensor with Arduino.
13. Introduction to Raspberry Pi.
14. Controlling of LED using Raspberry Pi.

Course Outcomes: At the end of the course, students will able to:

1. Understand the lab equipments and various components with their ratings.
2. Understand the designing of circuits using PCB softwares.
3. Understand the programming of Arduino microcontroller.
4. Understand the programming of Raspbarry pi and its applications.

Note:

1. To allow fair opportunity of practical hands on experience to each student, each experiment may be either done by each student individually or in group of not more than 3-4 students. Larger groups be strictly discouraged/disallowed.
2. Ten experiments are to be performed out of which at least seven experiments should be performed from the above list. Remaining three experiments should be performed from the above list or designed and set by the concerned department as per the scope of the syllabus.

CHAPTER – 7

SEAT MATRIX, FEE STRUCTURE AND HOSTEL FACILITY

Seat Matrix

Name of Programme	Total Seats	AIC	State Quota (SQ)	HOGC	SC	DSC	BCA	BCB	PWD	Supernumerary Seats (EWS)
		(15% of total seat)	(85% of total seat)	(50% of SQ)	(10% of SQ)	(10% of SQ)	(16% of SQ)	(11% of SQ)	(3% of SQ)	(10% of SQ)
Certificate course in Anti-Drone Technology	18	3	15	8	2	1	2	2	0	2

Reservation Policy: As per Haryana Government norms.

Fee Structure for the Session 2022-23:

S. No.	Nature of Fee (s)	Amount (Rs.) per semester
1.	Tuition Fee	8000
2.	Admission Fee cum Registration Fee	2000
3.	Caution Money (Refundable)	1200
4	Examination Fee	1750
5	Laboratory Fee	5000
6	Library Fee	1000
7	Accreditation Fee	250
8.	Identity cum Library Card	100
9.	Training & Placement Fee	500
10.	Sports Fee	750
11.	Medical Insurance Fee	250
12.	Red Cross Fee	50
13.	Youth Welfare Fund	750
14.	Medical Fee	150
	Total Fee	Rs. 21750
15.	Hostel Fee	19000 for General Category 16000 for SC Category (Including two months mess charges)
16.	Mess Charges Monthly (Approx.)	2500

HOSTEL AVAILABILITY:

HOSTELS – HOME AWAY FROM HOME

Choosing a university is also about choosing a new home. We ensure that students dwell in a healthy environment that helps them to grow and learn without any obstacle. DCRUST offers comprehensive and independent hostel facilities for boys and girls within the campus with all modern amenities and facilities. Elegantly designed and surrounded by lawns and flower beds, DCRUST has four Boys' hostels and three Girls' hostels. It provides a comfortable, congenial and homely environment to the residents. The Chief Warden is the administrative head of the Hostel. For internal administration and day-to-day discipline, the Wardens, Hostel Supervisors, Matron and the Storekeeper assist the Chief Warden.

Each hostel is spacious, well maintained and fully equipped to provide a decent stay and the best possible learning environment. The common room with a collection of national newspapers, magazines, TV & cable facility and Wi-Fi connectivity keep the students updated with current affairs. To keep the students physically fit gym, outdoor & indoor sports facilities are provided in each hostel. Each hostel has separate arrangement for water purifiers, bathrooms with geysers and laundry that provides moments of leisure. There is a designated well-maintained visiting area for the visitors of the residents. Apart from these, a Dining Hall is maintained hygienically for students to enjoy their meals. Hygienic, fresh and best quality of food is served in the hostel mess being run by the residents on a cooperative basis. Proper care of balance diet is done on a weekly schedule of mess.

The hostels being an integral part of the University premises deserve a sacred status. Smoking, consumption of alcoholic drinks & narcotic drugs and the use of bad and abusive language in the hostel premises is strictly prohibited. Students are also not permitted to keep-in-their possession, room crackers, dangerous weapons, firearms, contraband items or instruments that can cause serious injury to others. For security purposes, the hostel is fully equipped with CCTV cameras along with a security guard for 24 hours.

BOYS' HOSTELS

K S Krishnan Hall (276 Rooms)

Named after Kariamanickam Srinivasa Krishnan, an Indian physicist, co-discoverer of Raman scattering, for which his mentor C. V. Raman was awarded the 1930 Nobel Prize in Physics to create a perfect citizen and a whole man with an integrated personality.

Chandrashekhar Hall (276 Rooms)

Named after Subrahmanyam Chandrasekhar, an Indian – American Astrophysicist and Nobel Laureate in physics, to make them aware of the usefulness of science to society and of the benefits society derives from it.

Hargobind Khorana Hall (276 Rooms)

Named after Hargobind Khorana, an Indian Organic Biochemist and Nobel Laureate in physiology or medicine to instill the qualities of self-reliance and versatility in the students.

Aryabhata Hall (276 Rooms)

Named after Aryabhata, an acclaimed mathematician-astronomer and Nobel Laureate, to

develop all the good qualities and virtues and to equip them with a sense of humility which would enable them to become a true citizen of the country.

GIRLS' HOSTELS

Gargi Hall (100 Rooms)

Named after Gargi, an enlightened woman, figuring in the Brihadaranyaka Upanishada of the Vedicege with a mission that every student emerges as a wholly developed individual symbolizing the spiritof enterprise and inquiry that characterizes Gargi.

Mother Teresa Hall (230 Rooms)

Named after Nobel Laureate Mother Teresa, known as Saint of Calcutta and an Albanian – Indian Roman Catholic Nun & Missionary, to inculcate in every student a sense of responsibility towards the society and respect for human life.

Kalpana Chawla Hall (95 Rooms)

Named after Kalpana Chawla, an Indian born American Astronaut and Space Shuttle Mission Specialist, to inspire and motivate the girls to become a source of encouragement to all women all over the world to follow their dreams and work hard to succeed.

Note:

Hostel accommodation is considered on the basis of both need and availability. The decision of the hostel Administration in this matter shall be final and binding on all students. Hostel rules havebeen framed keeping in mind the local culture and traditions, with a view to guide and help students to attain standards of implacable conduct. Therefore, while residents enjoy the maximum freedom, itis ensured that this is always within the framework of standard guidelines and procedures.

CHAPTER-8

ONLINE FILLING OF APPLICATION FORM

- Please keep your scanned photograph, saved in a file in *jpeg* format, ready to upload on the application form. The file size should be less than 40 kB (size H: 150xW:130).
- Please keep your scanned signature, saved in a file in *jpeg* format, ready to upload on the application form. The file size should be less than 20 kB (size H: 60xW:75).

Please read the instructions given below to complete and submit the Online Application form:-

1. Please read the Admission Prospectus carefully before you start filling the Online Application Form. Candidates must see their eligibility for admission in the course.
2. Blurred / Distorted / Illegible Images of Photograph and Signature shall lead to cancellation of your Application Form.
3. For Haryana candidates, Parivar Pehchan Patra (PPP) is compulsory. Keep details of your Aadhar Number, qualification from matriculation onwards ready.
4. All the details required in the Online Application form should be filled in.
5. Last date for submitting the duly completed application along with the required application fee is 20.01.2023.
6. Application fee must be paid online which is activated after the application form is completed. Application fee to be paid is as under.

Fee payment is made ONLY through online mode via State Bank Collect. NO OTHER PAYMENT MODE is acceptable.

Category	Application Fee
SC/DSC/BC candidates of Haryana only	Rupees 250.00 (Two Hundred Fifty Rupees only)
General and all others	Rupees 1000.00 (One Thousand Rupees only)

7. Status of Fee payment will be uploaded 24 Hrs after the online fee payment is verified by the bank. You can Login and Check your Fee payment status.
8. DO NOT forget to write your Correct Application No. at the time of Online Fee payment. Wrong / Incorrect Application No. will lead to cancellation of your Application Form.
9. No changes can be made in your application after fee payment.
10. Application Fee once paid is not refundable / transferable.
11. After submitting the Online Application, your application number will be generated.
12. Note down your application number and password for future reference. These will be required for counseling.
13. For template for online application form see next page.

**APPLICATION FORM FOR 6 MONTHS CERTIFICATE
COURSE
ON
ANTI-DRONE TECHNOLOGY (2022-23)
(TEMPLATE)**

Application No.:

Course Name				
Personal Details				
Name of Applicant		Photo		
Parivar Pehchan Patra (PPP) ID				
Aadhar Card No.				
Mother's Name				
Father's Name				
Gender				
Date of Birth				
Category				
Whether Physically Handicapped				
Supernumerary Seats (EWS)				
Mailing & Contact Details				
Mailing Address				
District/City				
State/UT				
Pin Code				
Mobile No.				
E-mail ID				
Educational Details (as applicable)				
Examination	Board/University	Subjects/Specialization	Percentage of marks	Year of Passing
10 th				
12 th				
ITI				
Diploma				

DECLARATION

(To be signed by the Candidate)

I hereby declare that all the entries made in this form are correct. I further declare that I fulfil the minimum eligibility conditions laid down for admission and I have read all conditions and guidelines given in the prospectus for admission in 6 Months Certificate Course on Anti-Drone Technology for the academic session 2022-23. In case of detection of any false entry, especially in respect of qualifying examination/ caste, my admission may be treated cancelled at any time during the course of my study and I will have no claim what so ever except security charges. I am fully aware of the Supreme Court directives in regard to ragging and I shall not indulge in any act of ragging and will strictly adhere to the code of conduct prescribed by university.

Candidate's Signature

Place:

Date:

CHAPTER – 9

COUNSELING AND ADMISSION

1. The admission to 6 Months Certificate Course on Anti-Drone Technology shall be done by university, department of Electronics & Communication Engineering.

The admission shall be done on the basis of Academic Merit of qualifying examinations.

Admission will be based on following criteria:

- i. Atleast 60% marks in Diploma/ ITI from any technical discipline.
- ii. Seats will be filled first by Diploma holders and then by ITI based on merit.

1. If two or more candidates have secured identical percentage of marks in qualifying examination, the candidate older in age will be preferred.

2. Counseling and admission schedule shall be separately notified on the university website www.dcrustm.org , www.dcrustm.ac.in.

3. Only those candidates who present themselves personally on the specified date and time along with the originals of all the documents will be considered for admission.

4. Fee will be paid online through candidate login Portal created at the time of registration. (Refer Prospectus for Fee structure)

Note: Candidates shall upload/bring the following documents (as applicable) while reporting to counseling:

- Print out of online filled application form.
- Passport size three photographs.
- Certificates showing the detailed marks in all subjects in the qualifying examination and One set of attested/self-attested documents.
- Matriculation/Hr. Secondary Examination Certificate as proof of age and One copy of attested/self-attested document.
- Conversion Table/Formula showing equivalence between percentage and CGPA of the qualifying degree.
- Medical Fitness Certificate from a Gazetted Medical Officer (Annexure IX).
- Character Certificate (Annexure I). For gap period, if any, the candidate will submit an affidavit from the notary/first class magistrate certifying his/her good conducts.
- Haryana Resident Certificate (Annexure II) with one attested/self-attested copy.
- Certificate from the Employer (Annexure-III) with one attested copy.
- (SC/DSC)/BC/ Affidavit by parents of BC/PH (Annexure -IV, V, VI, VII) with one attested /self-attested copy.

- Economically Weaker Section: Income and Assets Certificates (Annexure- VIII)
- Declaration by parents (Annexure XI).

Note: There shall be sole responsibility of the candidate in case fee deposition is failed by this method because of internet failure or otherwise.

5. Controller of Examination will provide the details of all the registered candidates to the chairperson.
6. Chairperson of the Department will constitute an admission committee that will prepare the merit list (rank wise) of all the applicants. The merit list will be displayed well in advance on the university website before first counseling (AIC: All applicants, HOGC: Haryana Open General Category, Category wise list: SC Candidates, DSC Candidates, BC Candidates etc.)
7. The counseling and admission in a programme will be held in the respective department as per the schedule mentioned in the prospectus. All the eligible candidates shall mark their attendance up to 10:00a.m. on the scheduled date. Counseling will begin from 10:00a.m. If any candidate reports after 10:00a.m., he/she will mark his/her attendance mentioning time also and he/she will be offered available seat only at that time.
8. All original certificates will be verified at the time of counseling by the concerned committee of the department. For any reason, if a candidate is unable to upload/produce original certificates at the time of admission, he/she will be allowed provisional admission on his/her application subject to verification of original certificates before next counseling time failing which his/her admission shall stand cancelled and fee forfeited. Such relaxation shall not be given in respect of category certificate (EWS, SC, BC-A, BC-B, PWD etc).
9. The provisional admission would be offered to the candidate in order of the rank of merit notified and displayed. If the candidate is not able to deposit the admission fee in the stipulated time schedule, then he/she will be considered "not interested" and accordingly such candidate will not be considered for subsequent counselings. However, if such a candidate reports for counseling /shows his/her interest [in writing via e- mail/offline] in any subsequent counseling, before the display of merit list of any subsequent counseling (if scheduled) he/she will be considered in the order of merit for counseling against the vacant seats (if any).
10. If a candidate admitted during any Counseling, applies for cancellation of his/her admission, his/her admission will be cancelled by chairperson of the department on recommendation of the departmental admission committee.
11. Candidates claiming reservation under SC/DSC and Backward Categories or any other reservation shall have to submit a certificate issued by the competent authority in the prescribed format (Annexure –IV/V/VI).
12. If a seat aside for candidate from the deprived Schedule castes for admission is not filled up due to non- availability of candidate of the deprived Schedule castes possessing the requisite qualification the same shall be made available to the candidate of Schedule caste.
13. The BC Candidates (Block 'A' & 'B') for benefit of reservation shall submit Backward

Class Certificate Block A or B as given in Annexure –VI. OBC certificate shall not be considered.

14. Only candidates having the permanent disability of not less than 40% (being otherwise fit for admission to the course) will be considered for admission as physically handicapped. Disability certificate must be issued from Chief Medical Officer of the concerned District. However, the admission shall be provisional subject to verification by a Medical Board constituted by the University for the purpose. The decision of the Board shall be final.

15. If, the reserved seat(s) of backward class 'A' remains vacant, these shall be filled up from backward class 'B' such inter conversion between BCA and BCB shall be made in the third and subsequent counseling.

If the candidates under reserved categories are not available upto 3rd Counseling and the seats remain vacant, these shall be automatically considered converted. These seats along with other net resultant vacancies after the 3rd counseling shall be offered to General category candidates in the next subsequent counseling on all India Basis.

The vacant seats of reserve category will be converted into general category after 3rd Counseling onwards only when list of eligible candidates in a particular category is exhausted.

Thereafter, all the reserved seats, except Supernumerary seats (EWS Quota) will be converted into General Category (All India Basis).

Supernumerary seats are over and above sanctioned intake and cannot be converted into any other category.

16. Vacancy status, after each counseling shall be uploaded on the university website/portal for the information of the candidates and public in general. (Chairperson's responsibility)

17. A candidate, who furnishes particulars which are found to be false, or suppresses material information, will not be considered for admission and if he/she is admitted on such information, notwithstanding the legal action under the law of the land, his/her admission shall be cancelled and all fees deposited by him/her shall be forfeited.

18. Before accepting the admission, the candidate must also ensure that he/she fulfils the minimum eligibility conditions for admission to the respective Course.

19. All the admitted candidates will be governed by the Rules and Regulations and/ or relevant Ordinance (s) as laid down by the University.

20. In the event of any inconsistency in the rules or any clarification thereof, the matter shall be referred to Dean (Academic Affairs). Dean (academic Affairs)/ the Hon'ble Vice Chancellor of the University shall be competent for interpretation of the written rule (s) whose decision shall be final and binding.

21. Nothing contained in this Admission Prospectus should be construed to convey sanction or cited as an authority for which University regulations alone are applicable.

22. Any candidate who has been disqualified or debarred by the University or Board or any other Statutory Board shall not be eligible for admission.

23. Canvassing in any form is strictly prohibited. Further, if any candidate, person or official engages himself / herself in any unlawful act or indulges in any kind of unfair means in the admission, he/she shall be liable to prosecution under relevant laws as per Indian Penal Code.

24. Those applicants who do not furnish complete particulars in the application form will not be considered.

25. If the University/authorities are not satisfied with the character, past behaviour and antecedents of a candidate, they may refuse to admit him/her in the University/ Institute in order to ensure academic standards, discipline and peaceful atmosphere in the University/Institute.

26. All disputes pertaining to admissions in the session 2022-23 are subject to the jurisdiction of Sonapat Court only.

27. All rules and regulations for submission of migration certificate by the candidates who have passed the qualifying examinations from other Universities / Boards will be applicable as per the rules of the concerned university/Board.

28. Reservation shall be applicable as per Haryana Govt. rules.

29. Refund of fee/ dues in the event of cancellation of admission shall be governed as per Govt.of Haryana guidelines. In the event of a candidate with drawing upto 2:00 pm on the last day of admission or vacated seat filled, the entire fee collected from the student, after deducting of the processing fee (Rs. 1000/-) shall be refunded to the candidate.

30. Change in the Schedule/any relevant information shall be displayed on the university website www.dcrustm.org, www.dcrustm.ac.in and no separate letter shall be sent.

31. If/when required the schedule for 4th/5th counseling will be displayed on university website www.dcrustm.org , www.dcrustm.ac.in, after third counseling. The Procedure for 4th/5th Counseling shall be as under: **(If required)**

i. Already registered candidates can also participate in these counseling and need not to apply again.

ii. Unregistered candidates need to fill an application form which is available at page no. 21 of prospectus.

iii. Time for marking of attendance and submission of applications form is 9:30 a.m. to 11:30 a.m. in the respective department.

iv. For these counseling, no applications shall be accepted after 11: 30 a. m.

v. All admitted candidates shall be charged University Fee as given in prospectus on the day of counseling. Unregistered candidates shall have to pay an additional charge of Rs.1000/- as Registration Fee in addition to fee mentioned in prospectus.

After completing the work of the admission, the admission committee will submit all the details of admitted students to Chairperson of the Department. Chairperson is required to arrange to make entries of all admitted students on the University Registration Portal.

34. The gross annual income of parents shown in the certificate should be of financial year 2021- 22 and certificate should be issued not older than 6 months.

35. General instructions, code of conduct and anti-ragging guidelines and measures, about the university, departmental information, academic calendar, fee structure and guidelines for fee concession, all annexure, etc.: (refer course prospectus available on the university website).

CHAPTER –10

CODE OF CONDUCT

While the following regulations or the points of code of conduct are not an exhaustive set of regulations, a student may be expelled from the college or disciplinary action as deemed fit may be taken, based on assessment of competent authorities about the behaviour/action not befitting the stature of a student of a professional Institution/University.

1. The students are not allowed to have any kind of motorized vehicle(s) such as motor cycle, scooter or car in the hostel premises. Only cycles are allowed. Parking of students' motorized vehicle shall be outside Gate No. 1.
2. The students are warned against any kind of ragging and all sorts of violence (physical assault or otherwise) on or off campus. Even minor forms of ragging shall attract penalties such as withdrawal of any scholarships, book grant, cut in marks of general proficiency / fitness for the profession, non issuance of character certificate, disallowing the use of university facilities, etc.
3. Consuming alcoholic drinks, tobacco products, (cigarettes, etc.) and drugs or any kind of intoxicants within the University / Hostel premises or entering the campus in inebriated condition is strictly prohibited.
4. The attempt of any student to present any work of someone else as his own work will amount to plagiarism and shall render the offender to immediate expulsion.
5. The attempt of any student to appear in any examination or test or interview, posing as another student, shall amount to impersonation and make the offender liable to expulsion.
6. Any student found indulging in ragging in the hostel or in the University will be immediately expelled from the hostel and the University, as also other disciplinary action shall be initiated against him. It may be noted that Hon'ble Supreme Court of India has set out strict guidelines against ragging and as per its orders, ragging is a cognizable offence.
7. The students should approach their teachers and other staff members of the University and hostels with respect and courtesy. The students should also treat fellow students (seniors or juniors) with dignity and respect.
8. The students should put in intellectual effort in choice of words such that the language of conversation with any one is not filthy, provocative, abusive, or unbecoming of the stature of a student of the University.
9. Students are advised not to form any association, union or club or organize any activity / gathering without prior written permission of the competent authority. They are advised not to indulge in any prejudicial or subversive activity, promote any political activity, organize any type

of agitation or get involved in any activity detrimental to academic pursuits and prestige of the University. They are also advised not to criticize or make derogatory remarks / comments against the University administration, teachers, other staff members or students.

10. The students are advised not to misuse or damage any University campus / hostel property, equipments, tools, instruments, library books, furniture, fixtures, fittings, etc. The cost of damages shall be charged from students individually or collectively. Writing on the walls or black / green / white boards anything uncalled for and defacing these places is punishable.
11. The students shall abide by the provisions made in the ordinance of relevant academic programme. For detailed information, the student can read the relevant ordinance.
12. The students are warned against possession and / or use of obscene site(s) on computer, books, magazines, periodicals, newspapers, VCDs, audio visual tapes, etc.
13. Students are also advised to refer to detailed rules of Library, Hostels, etc. for proper use of facilities.
14. The students are advised not to indulge in any kind of indiscipline or misconduct during their stay in the university campus.
15. The student shall strictly adhere to the dress code, if any, prescribed by the University. They will put on the blue dress while working in the workshop and a white apron in other laboratories. The students are not allowed to wear slippers/bathroom slippers in the classes/laboratories.
16. The students shall put on their identity cards in person while they are in the University.

CHAPTER – 11

ANTI-RAGGING GUIDELINES AND MEASURES

As per judgment of Hon'ble Supreme Court, "Ragging shall be constructed as an act of sadistic pleasure or showing off power, authority, or superiority by senior students over their juniors or freshers".

Ragging in any form – teasing physically, psychologically or by spoken or words is absolutely prohibited in the University campus and hostels. If any incidents of ragging come to the notice of the authority, the concerned students shall be given an opportunity to explain to the Proctorial team and if their explanation is not found satisfactory, the authority would rusticate the defaulters from the University. However, in compliance of the recent instructions of the Hon'ble Supreme Court, once a student is found prima facie involved in ragging, he/she would be immediately suspended from the University and the Hostel. The matter will mandatorily be reported to the police and criminal law set into motion.

IMPORTANT INSTRUCTIONS AND DON'TS WITH REGARD TO RAGGING

What amounts to ragging? Any action by senior(s) individually or in a group, that may cause a fresher/ junior any sort of physical, mental or psychological discomfort, amounts to ragging. A student must desist from following actions:

Forced Activity

1. Physical abuse - forcing a junior/ fresher to drink, eat or smoke, dress in a particular manner or undress.
2. Verbal abuse – asking to swear words & phrases, to make direct or indirect derogatory references to someone's appearance, attire, religion, cast, family, etc.
3. Pressurizing junior/ fresher for singing, dancing, reading or browsing pornographic/ objectionable material or asking to interact with strangers, particularly of opposite sex, or performing in any other waysuch as forcing one to use foul language or shouting or cheering in any event.
4. Asking juniors for copying notes or assignments, cleaning rooms or clothes, etc.
5. Visiting fresher's room or inviting fresher to visit one's room for interaction without the knowledge of hostel authorities (Supervisors / Warden / Chief Warden).
6. Involving fresher in singing, dancing, and mimickering or performing in any manner under the guise of talent search or interaction.

Activity related to Lifestyle

1. Compelling fresher to interact in a particular fashion, e.g., asking to address a senior sir or Ma'am.
2. Imposing or not permitting certain kinds of dress on fresher or specific accessories such as jeans, belts,caps, turbans, etc. for freshers / juniors.
3. Enforcing rules regarding hairstyle, shaving or oiling hair, or applying pastes, mud, etc.
4. Restricting fresher, the access to certain parts of the hostel, e.g., common room, etc.

PLAYING OF MIND GAMES

A particular form of interaction in which a senior or a group of seniors manipulate the conversation so as to humiliate the fresher or make him/ her feel stupid or insecure or threatened is strictly prohibited. Friendly interaction by senior with fresher which facilitates academic ambience inside hostel and in academic premises is highly appreciated, however, to ward off derailment from

the intended purpose, it is advisable that such interaction be undertaken in the presence of Warden or his authorized person / team.

MEASURES ADOPTED TO CURB RAGGING

University has an elaborate mechanism to tackle the problem of ragging and remain successful in making the campus ragging-free. The mechanism and measures adopted are:

- 1. Escort teams to accompany the fresher students:** All freshers are escorted from the hostel to teaching blocks and back to the hostel under the supervision of escort teams consisting mostly of technical staff three times every working day, i.e., at the start of the first class, then for the lunch, and at the end of the last class. Similarly, escort team consisting of lady staff under the supervision of the hostel matron escorts newly admitted girl students from girls' hostel to teaching blocks and back. The mechanism remains operational continually till proneness to ragging persists.
- 2. Proctorial Team:** A proctorial team consisting of faculty from different departments remains vigilant in various teaching blocks with two objectives – (i) to prevent any kind of ragging and (ii) interact with the senior students to help curb ragging and report any incidents to the Proctor.
- 3. Surprise inspection teams** – Several teams comprising of senior faculty members are in place to make surprise checks in hostels on each day of the week.
- 4. Raiding teams in Hostels:** Towards curbing ragging in hostels, anti-ragging groups, each consisting of two faculty members, remain always present in hostel premises on roaster basis during 5pm till 12pm night. This mechanism remains operational continually for two months. Its continuation is again reviewed and decision taken accordingly. In addition to this, hostel personnel maintain round-the-clock vigilance, and particularly after 12.00 in the night, in the supervision of the Hostel Warden and / or his authorized personnel / team.

Orientation and Counseling

An orientation Programme is arranged for newly admitted students along with their parents to apprise them about the University, its academic strengths, various facilities (including extra-curriculars), Teaching departments and the anti-ragging mechanism in place.

All the newly admitted students are divided into groups and each group is attached with a faculty counselor who acts as local guardian and career guide throughout their stay in the University. In this regard, students are advised to contact the Chief Counselor of the Univ. or the Counselor of the relevant dept. or disciplinarian-cum-Counsellors.

The Chief Warden along with proctor and Wardens arrange meeting with senior students in respective hostels and apprise them of the Supreme Court's views and decision in regard to ragging and of the seriousness we attach to this menace.

A team especially formed under the supervision of Dean Students Welfare carries out anti-ragging campaign inside the University campus through banners, posters in the campus and by organizing awareness programmes in academic premises.

Further, an Advisory Committee on Ragging is in place. It consists of senior faculty members of the University, representative of stakeholders and district administration (Civil & Police).

Annexure I
CHARACTER CERTIFICATE

Name of the School/ College..... Session.....

Certified that Sh./Km./Smt.....

son/ daughter of Sh. has been a Bonafide student of this

School/ College during the period

He/ She appeared in the Examination of the

(University/ Board) held in under Roll No.....

.....and *passed obtaining marks out of..... marks

or *failed/ *placed under compartment in the subject of

1. Academic Distinction, if any.....
2. Co-curricular activities, if any.....
3. Brief particulars of disciplinary action by School/ Board/ University (including punishments such as expulsion, warning, fined for violation of School/ Board/ University/ Hostel Rules, UMC/ disqualification etc., if any.....
4. General Conduct during stay in the Institution: Good/ Satisfactory/ Unsatisfactory
5. He/ She bears good/ bad character.

No.....

Signature

Date.....

Principal

(With office seal)

*Strike out whichever is not applicable.

Annexure II

HARYANA RESIDENT CERTIFICATE

(For bonafide Residents of Haryana only)

Certified that Sh./Km./Smt.son/
daughter of Sh.....R/o.....(complete
address) since

..... and applicant for admission to various

Engineering/ Technical Courses in Haryana, is a bonafide resident of Haryana State in terms of Chief
Secretary, Haryana letter No. 62/17/95-6 GSI dated 3.10.96, letter No. 62/32/2000-6GSI dated 23-5-2003,
letter No. 62/27/2003/06 GSI dated 29.7.2003, letter No. 22/28/2003-3 GS- III d a t e d 30-1-2004

Under clause.....

No..... (Signature of the attesting authority)

Date..... Name

Place: Designation.....
(with legible office seal)

NOTE:

- (i) The competent authorities to issue Haryana Resident Certificate will be as per State Govt. letter no. 22/28/2003-3 GS III dated 30.01.2004.
- (ii) The candidates, who have passed their qualifying examinations from the Universities / Board / Institutes located in Haryana, are not required to produce Certificate of Haryana Resident.
- (iii) The Certificate must have been issued on or after 31.01.2005.

Annexure III

CERTIFICATE FROM THE EMPLOYER IN THE CASE OF EMPLOYEES OF GOVT. OF HARYANA, MEMBERS OF ALL INDIA SERVICES BORN ON HARYANA CADRE, EMPLOYEES OF STATUTORY BODIES / CORPORATIONS

Certified that Sh./Km./ Smt.....son/daughter/wife of Sh.
.....is serving as a Regular employee of Govt. of Haryana / Members of All India Services borne on Haryana Cadre/Regular Employees of Statutory Body/Corporation established by or under an Act of State of Haryana. Presently, he/she is posted as.....in the Department of At (Place of posting). Sh./Km./ Smtis his/her son/ daughter/dependent (if parents are not living), seeking admission in various technical courses in Haryana for the session 2020-21.

No.....

Signature of Employer

Date

Designation.....

Place :.....

(Legible Seal)

*Strike out whichever is not applicable.

Annexure IV

Haryana Government

Certificate Sr. No...../Year...../Teh.....

Photo of
Applicant to
be attested by
the Issuing
Authority

SCHEDULED CASTE - CERTIFICATE

This is to certify that Shri/Smt./Kumari.....Son/daughter of
Shri resident of village/town.....Tehsil
.....District.....of the State/Union
Territory belongs to the Caste/Tribe, which is recognized as a Scheduled Caste/
Scheduled tribe
under the Constitution (Scheduled Castes) order, 1950.

2. Shri/Smt./Kumari..... and/or his/her family ordinarily
resident(s) in.....Village/Townof Tehsil..... District
..... of the State/Union Territory.....

Signature with seal of Issuing Authority Full

Name.....

Designation.....

Address with

Telephone No. with code.....

Place.....

Date.....

- Issuing Authority: Tehsildar-cum-Executive Magistrate,
Naib Tehsildar-cum-Executive Magistrate.
Head of Department in case of Government employees
- Strike out the paragraph which is not applicable.
- For instructions refer to www.csharyana.gov.in

Annexure V

Haryana Government

Deprived Scheduled Castes Certificate

This is to certify that Mr. /Mrs.

Son/daughter/o Sh.

resident of Teh. District.....

The Haryana State belongs to the Caste which is recognized as Scheduled Castes under the Constitution (Scheduled Castes) order 1950 and this caste has been declared as Deprived Scheduled Caste by the Government of Haryana vide Gazette Notification No. Leg. /15/2020 dated 15.05.2020.

This certificate is being issued to him/her on the basis of verification of Naib Tehsildar/Tehsildar.

Signature

Name

Rubber Stamp of Naib Tehsildar/Tehsildar

Dated:

Place:

Annexure VI

Haryana Government

Certificate Sr. No..... /Year..... /Teh.....

Photo of Applicant
to be attested by the
Issuing Authority

BACKWARD CLASS CERTIFICATE

1.This is to certify that Shri/Smt./Kumari Son/daughter of Shri
..... Resident of village/town.....Tehsil
..... Districtof the State/Union Territory
..... belongs to the Caste. This caste is mentioned in the
Backward Class of BC Block.....in Schedule.....to the Haryana
Backward Classes (Reservation in Services and Admission in Educational Institutions) Act, 2016 (15 of 2016).

2. Shri/Smt./Kumari and/or his/her family ordinarily reside(s) in
..... Village/Town.....of Tehsil.....
District.....of the State/Union Territory.....

3. This is to certify that he/she does not belong to creamy layer as per the Haryana State notification no.
491-SW (1)-2021 dated 17.11.2021.

Signature with seal of Issuing Authority

Full

Name.....

Designation.....

Address with

Telephone No. with code.....

Place.....

Date.....

- Issuing Authority: Additional Deputy Commissioner-cum-District Citizen Resources Information Officer
Tehsildar-cum-Executive Magistrate,
Naib Tehsildar-cum-Executive Magistrate.
Head of Department in case of Government employees

- Strike out the paragraph which is not applicable.
- For instructions refer to www.csharyana.gov.in

Annexure VII

MEDICAL CERTIFICATE FOR PHYSICALLY HANDICAPPED

OFFICE OF THE CHIEF MEDICAL OFFICER.....

No. Dated:

Certified that Sh./Km./Smt.son/daughter/wife of

Sh.....resident ofDistrict

.....appeared before the Medical Board for medical check-up.

On his/her Medical Examination, it is found that the nature of handicap/disability is..... %

And (as applicable), is as under:

1. Blind or Low vision:

2. Hearing impairment.....

3. Locomotor disability/cerebral palsy.....

Thus, the candidate is physically handicapped as per standard norms of Haryana.

(Signature of the Applicant)

Date

Place

Chief Medical Officer

.....

(Seal of the above authority)

*The handicap disability should not be less than 40% and should not interfere with the requirement of professional career such as Engineering/Architecture/Technician etc.

Annexure VIII

Government of Haryana
(Name & Address of the authority issuing the certificate)
(ECONOMICALLY WEAKER SECTIONS)
EWS INCOME AND ASSET CERTIFICATE

Certificate No.....Date.....

VALID FOR THE YEAR.....

This is to certify that Shri/Smt./Kumari..... son/daughter/wife of

.....is permanent resident of village/street.....post

Office....., District Pin Code..... whose

photograph is affixed below and attested below ** is below Rs.6 Lakh (Rupees Six Lakh only) for the financial year.....

It is further certified that his/her family does not own or possess any of the following assest***

- I. 5 acres of agriculture land and above;
- II. Residential flat of 1000 sq. ft. and above;
- III. Residential plot of 100 sq. yards and above in notified municipalities;
- IV. Residential plot of 200 sq. yards and above in areas other than the notified municipalities.
- V. Total immovable assets owned are valued at Rs. One Crore or more.

Shri/Smt./Kumari..... belong to the

..... caste, which is not recognized as a Scheduled

Caste, Backward Classes (Block-A) and Backward Classes (Block-B).

Signature with seal of Office
Name
Designation

Recent Passport
size attested
photograph of
the applicant

*Note1: Income means income from all sources i.e., salary, business, profession etc.

**Note2: The term 'Family' for this purpose will include the person, who applies for benefit of reservation, his/her parents, spouse as well as children and siblings below the age 18 years.

***Note3: The property held by a "Family" in different locations or different places/cities are to be clubbed while applying the land or property holding test to determine EWS status.

Annexure IX

CERTIFICATE OF MEDICAL FITNESS

To be obtained only from gazette Government Medical Officer/ Medical Officer of a Government Undertaking. Please note that this certificate in no other form will be accepted. Medical Certificates issued by private medical practitioners will not be accepted.
(Please refer to prescribed standards given overleaf)

Name

(in Block Letters)

Father's Name: Sh.....

Height..... Weight

Chest:

Heart & Lungs:

Vision: L: R:

Colour Vision:

Hearing:

Hernia/Hydrocele/Piles:

Remarks:

I certify that I have carefully examined Sh./Km./Smt. son/daughter
of Shri..... who has signed in my presence.

He/she has no mental and physical disease and is FIT.

Signature of the candidate

Station:

Signature of the Medical Officer
with Legible Seal

Date:

(FOR PRESCRIBED MEDICAL STANDARDS FOR ADMISSION SEE NEXT PAGE)

PRESCRIBED MEDICAL STANDARDS FOR ADMISSION

An Engineering demands good physique and stamina. An applicant who suffers from any organic defect or does not have sound health so as to bear the strain of the course which must be heightened in his/her professional life would be well advised not to take up the Engineering/Architecture Profession. He/she must fulfill the following medical standards:

- HEIGHT** : Not less than 1.5 metre for male candidates, and not less than 1.2 metre for female candidates.
- WEIGHT** : 41 Kg. approximately for male candidates and 37 kg. approximately for female candidates.
- CHEST MEASUREMENT:** Not less than 69 cms. with satisfactory limit of expansion and contraction for male candidates only
- HEART & LUNGS** : No abnormality.
- HERNIA, HYDROCELE** : Presence of these is a temporary disqualification & to be rectified before joining the course of study.
- VISION** : Normal, where defective, it must be corrected to 6/9 in the better eye and 6/12 in the worse eye. Eye should be free from congenial and other disease.
- HEARING** : Normal, where defective, it must be corrected.

Annexure X

UNDERTAKING BY THE STUDENT

I, (full name of student with admission/registration/enrolment number) s/o d/o Mr. / Mrs./Ms:.....having been admitted to(name of the institution) have received a copy of the AICTE Regulation dated 1.7.2009 on Curbing the Menace of Ragging in Higher Educational Institutions, (hereinafter called the “Regulation”) carefully read and fully understood the provisions contained in the said Regulations.

- 1) I have, in particular, perused **Clause 4** of the Regulation and am aware as to what constitutes ragging.
- 2) I have also, in particular, perused **Clause 5(3)** and **Clause 8(4)(a)** of the Regulation 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 behavior or act that may be constituted as ragging under Clause 4 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 4 of the Regulations.
- 4) I hereby solemnly affirm that, if found guilty of ragging, I am liable for punishment according to clause 8(4)(a) 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.

Declared this.....day of month ofyear.

Signature of Student

Name.....

Annexure XI

UNDERTAKING BY PARENTS/GUARDIAN

- 1) I, Mr. /Mrs./Ms. (Full name of Parent /Guardian) father/mother/guardian of Mr./ Mrs./ Ms..... (Full name of student with admission/registration/enrolment number) having being admitted to..... (name of the institution), have received a copy of the AICTE Regulation on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the “Regulation”) carefully read and fully understood the provisions contained in the said Regulations.
- 2) I have, in particular, perused **Clause 4** of the Regulation and am aware as to what constitutes ragging.
- 3) I have also, in particular, perused **Clause 5(4)** and **Clause 8(4)** of the Regulation 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.
- 4) I hereby solemnly aver and undertake that
 - a) My ward will not indulge in any behavior or act that may be constituted as ragging under **Clause 4** 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 4 of the Regulations.
- 5) I hereby solemnly affirm that, if found guilty of ragging, my ward is liable for punishment **a c c o r d i n g** to **Clause 8(4) (a)** 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.
- 6) 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, I am aware that the admission of my ward is liable to be cancelled.

Declared this..... day of.....month ofyear.

Signature of Parents/Guardian

Name: Address:

.....

Mobile No./Tel. Phone: