

Nehru Institute of Engineering & Technology



(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

(Accredited by NAAC, Recognized by UGC with 2(f) & 12(B))

"Nehru Gardens", T. M. Palayam (Post), Coimbatore - 641 105

Web: www.nehrucolleges.org



To be noble, we must be clear in thought, courtesy in manner, graceful in speech, and honest in deed.

- Jawaharlal Nehru

Calendar 2019 - 2020



A Tribute to a Great Leader

Biography of Founder Chairman

Shri. P. K. Das,

The Bhisnacharya of Education

Whenever we hear the name, Nehru College, immediately the name of our Chairman Shri. P. K. Das comes to our mind. Our Chairman's name is synonymous with Nehru Colleges, which stand as Hall Mark of Quality in the field of higher education. Starting from scratch in 1968, this great Leader spent each ounce of his energy and sweat to establish 20 prestigious Institutions in Tamil Nadu and Kerala. Through his hard toil, sweat, firm determination and strict self discipline, he established Nehru College of Aeronautics and Applied Sciences at Kuniyamuthur, Coimbatore in 1968. Besides this College, he established Engineering Colleges, Arts & Science College, Pharmacy College, Aviation Institute, Super Specialty Hospital with Medical College, Management Colleges, Architecture College and Academy of Law in Tamil Nadu and Kerala.

He was hardly 29 years of age in 1968, when he started his career as an Academician at Coimbatore. The meteoric rise of this great personality in the field of technical and higher education was phenomenal and great.

A humble beginning was made. Despite innumerable difficulties and insurmountable obstacles he had to face with, he didn't budge an inch, but forged ahead with firm determination and iron will, to accomplish success after success. Year after year, he was reaping rich dividends and accolades. He was standing like a Colossus. The flag ship institution namely Nehru College of Aeronautics & Applied Sciences has emerged as a unique institution in this country. This College is the only one with so many specializations in Aeronautical Maintenance Engineering. In the field of Applied Sciences, several branches for B.Sc. degree courses in Aeronautical Engineering, Electronics, Computer Science and Avionics and MBA in Air Line and Airport Management were started there. The quality maintained here speaks volumes about the Founder Chairman Shri. P. K. Das.

He added golden feather to his cap, by starting a huge and prestigious Nehru College of Arts and Science in a new campus at Thirumalayampalayam. There are 2 Engineering Colleges and 3 Management Colleges at Thirumalayampalayam and Kaliapuram, in the outskirts of Coimbatore. At Pampady in Kerala, he started Nehru College of Engineering & Research Centre and later on Nehru College of Pharmacy. At Lakkidi in Palakkad District, he started Jawaharlal College of Engineering and Technology. In 2010, Jawaharlal Aviation Institute was started at Lakkidi. A Super Specialty hospital named as P. K. Das Institute of Medical Sciences has been established at Vaniamkulam. All these have been conceived and nurtured under his close supervision. The efficient functioning and quality maintained in these institutions are testimonies to his diligence, greatness and success.

The might and strength of our beloved Chairman are etched deeply and are eloquently evident from the functioning of these Institutions. He was a simple, humble, noble and straight forward person, with aristocratic behavioral traits. He was a tall, handsome and commanding personality not only physically, but also intellectually and behaviorally. Those who come in contact with him cannot forget his magnificent virtues and everlasting affection. He has left a great void, which can never be filled. Though he has left us at an untimely moment, still his wishes, aspirations and blessings surround us and energize us.

We see our beloved Chairman through his sons Adv. Dr. P. Krishna Das and Dr. P. Krishna Kumar. Our Chairman was an industrialist par excellence. We shall remember him and his benevolence throughout lives. We offer one thousand salutes to this Bhisnacharya of Higher Education.



Shri. P. K. DAS

F.I.E., F.I.Mech.E., A.F.R.Ae.S. (Lond) M.Ae.S.I M.S., C. Engg.

Founder Chairman

Nehru Group of Institutions

Tamilnadu & Kerala



**“Make “NIET” to Respond to the needs of the Society “
“Mould “NIET” for Protecting “Value System” for Education “**

VISION

Our vision is to mould the youngsters to acquire sound knowledge in technical and scientific fields to face the future challenges by continuous upgradation of all resources and processes for the benefit of humanity as envisaged by our great leader Pandit Jawaharlal Nehru.

MISSION

- To build a strong centre of learning and research in engineering and technology.
- To facilitate the youth to learn and imbibe discipline, culture and spirituality.
- To produce quality engineers, dedicated scientists and leaders.
- To encourage entrepreneurship.
- To face the challenging needs of the global industries.



**India is my country
and all Indians are my brothers and sisters.
I love my country
and I am proud of its rich and varied heritage.
I shall always strive to be worthy of it.
I shall give respect to my parents, teachers
and all elders and treat everyone with courtesy.
To my country and my people,
I pledge my devotion.
In their well-being and prosperity alone
lies my happiness.**

PERSONAL MEMORANDA

1. Name :

2. Class & Roll No. :

3. Name of the Parent: Guardian:

4. Permanent Address:.....

.....

Pin:..... Tel. /Cell:

5. Present Address:

..... Pin:

Mobile: E-Mail:

6. Date of Birth :

7. Driving License No. :

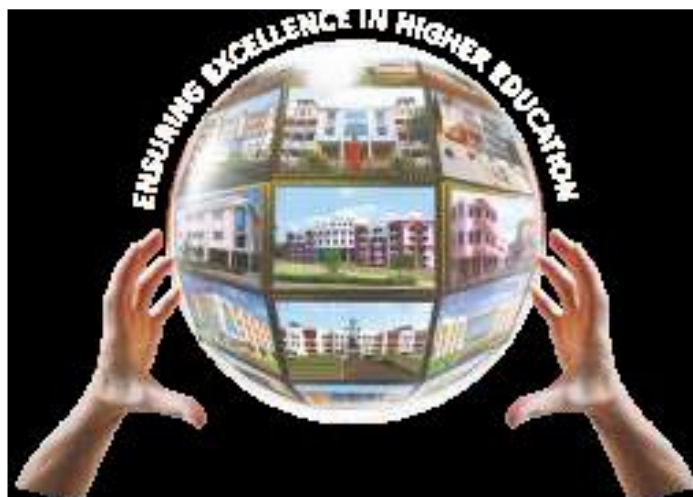
8. Insurance Policy No. :

9. Bank A/C No. :

10. Blood Group :

11. Day Scholar / Hosteller :

12. Emergency Contact No. :



About NEHRU GROUP OF INSTITUTIONS

The biggest conglomeration of Established Educational Institutions in Tamil Nadu and Kerala, befittingly christened after the name of Pandit Jawaharlal Nehru and pertinently known as 'Nehru Group of Institutions' was the fruition of long cherished dreams, ideals and ambitions of our Founder Chairman Shri. P. K. Das F.I.R., F.I.Mech.E., M.S. Engg., M.Ae.S.I., A.F.R.Ae.S (London), C. Engg., who was a great visionary with missionary zeal, a Chartered Engineer with reputation of the highest order, an Industrialist with extraordinary entrepreneurial spirit and a Philanthropist with benevolent and humanitarian approaches.

As an erudite and enlightened educationist, excellently endowed with extraordinary talents and tenacity, he has built up a galaxy of glorious institutions, running courses of interest to the students relevant to the present day requirements and required to imbibe specialized knowledge to the students to gain cutting-edge competencies.

Ever since its inception in 1968, it has grown from strength to strength and has blossomed into the biggest group, having at present 20 institutions, recognized by regulatory authorities like Universities and UGC, Accredited by AICTE and NAAC, PCI, DGCA, Certified by Internationally renowned ISO certifying agencies and resolved to render selfless, dedicated and devoted service to the cause of higher education in the relevant and rewarding fields of Engineering, Management, Commerce, Information Technology, Aeronautical Engineering, Industrial Training, Medical, Pharmacy, Architecture and Law.

The legacy left behind by our late chairman has been bequeathed by his two illustrious sons Adv. Dr. P. Krishna Das and Dr. P. Krishna Kumar by assuming offices of Chairman & Managing Trustee and CEO - Secretary respectively. They are totally committed and deeply involved in up keeping the traditions and upgrading the values of the institutions to the unimaginable heights of pride, prosperity and popularity. The running pages are pinning the hopes, faiths and confidence of all concern by unfolding the ultra modern infrastructure instituted carefully and liberally at every educational institution under their able management.

About NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Nehru Institute of Engineering and Technology, Approved by AICTE - New Delhi, Affiliated to Anna University – Chennai, Accredited by NAAC and Recognized by UGC with 2(f) and 12(B) is established in the year 2006, under the able leadership of our Founder Chairman, Shri. P. K. Das it has completed more than a decade in educational service and the institute is marching ahead towards achieving the Vision and Mission of our Founder Chairman under the guidance of our Chairman & Managing Trustee Adv. Dr. P. Krishna Das, and our beloved CEO and Secretary Dr. P. Krishna Kumar.

In completing its tenth year of establishment, NIET has successfully completed its NAAC Accreditation, Recognized by UGC with 2(f) and 12 (B) by extending its wings and included in itself 6 Undergraduate Programmes and 3 Master Programmes in Engineering along with MBA with a total strength of students exceeding 2500 in number.

NIET is well-equipped with excellent infrastructure, dedicated team of eminent faculty members and laboratories with modern facilities. NIET has become one of the pioneer institutions in engineering in the region.

NIET is marching ahead in its road to success by showing continuous improvement in producing good academic results with university ranks in almost all the departments. A total of fifteen university ranks are secured during the academic year 2018-2019. NIET has marked tremendous improvement in the placement record of our students during the academic year 2018-2019.

The Institute's main agenda is to achieve excellence in the field of technical education in order to satisfy the customers and society with the best talented technocrats from this temple of learning.



Courses Offered

B. E.

- Aeronautical Engineering
- Mechanical Engineering
- Computer Science and Engineering
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Mechatronics Engineering

M.E.

- Aeronautical Engineering
- Communication Systems
- Embedded System Technologies

MBA (Master of Business Administration)

- Dual Specialization offered: -
- Finance
- Human Resource
- Marketing
- Systems
- Production

Eligibility

B.E.: +2 Pass with 50% in MPC

MBA: Any Degree with 50% marks and MAT / TANCET / CET

LABORATORIES

- Production Engineering Lab
- Thermodynamics Lab
- Fluid Mechanics & Machinery Lab
- Strength of Material Lab
- Dynamics Lab
- Metrology Lab
- CAD /CAM Lab
- Programming Lab
- Machine Shop
- General Engineering Workshop
- Aerodynamics Lab
- Aircraft Structure Lab
- Propulsion Lab
- Aero Engine and Airframe Lab
- Electrical Engineering Lab
- Electrical Machines Lab
- Electrical Circuits Lab
- Electronics Engineering Lab
- Electronic Devices & Circuits Lab
- Computer Aided Drafting and Modeling Lab
- Aircraft System Lab
- Flight Integration Systems and Control Lab
- Digital Lab
- Programming and Data Structures Lab
- Embedded Lab
- Optical and Microwave Lab
- Control and Instrumentation Lab
- Power Electronics and Drives Lab
- Simulation Lab
- LIC Lab
- DSP Lab
- VLSI Lab
- Micro Processor & Micro Controller Lab
- Communication Lab
- Networks Lab
- Object oriented Programming Lab
- Data Structures Lab
- Innovative System Design Lab
- Operating system Lab
- Visual Programming Lab
- DBMS Lab
- Computer Graphics Lab
- Compiler Lab
- Communication Skills Lab
- Physics / Chemistry Lab
- Internet Programming Lab
- Case Tools Lab
- Mobile Application Development Lab
- Security Lab
- Manufacturing Technology Lab
- Thermal Engineering Lab
- Sensors and Signal Processing Lab
- CNC Lab
- Electrical Machines and Drives Lab
- Grid and Cloud Computing Lab
- Micro Controller and PLC Lab
- Applied Hydraulics and Pneumatics Lab
- Problem Solving and Python Programming Laboratory



SUBJECTS OF STUDY

B. E. / B. Tech. DEGREE

ANNA UNIVERSITY

Program Outcomes for all UG Programmes

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

ANNA UNIVERSITY : : CHENNAI - 600 025

AFFILIATED INSTITUTIONS

REGULATIONS 2017

CHOICE BASED CREDIT SYSTEM Common

to all B.E. / B.Tech. Full-Time Programmes

(For the students admitted to B.E. / B.Tech. Programme at various Affiliated Institutions)

DEGREE OF BACHELOR OF ENGINEERING / BACHELOR OF TECHNOLOGY

This Regulations is applicable to the students admitted to B.E./B.Tech. Programmes at all Engineering Colleges affiliated to Anna University, Chennai (other than Autonomous Colleges) and to all the University Colleges of Engineering of Anna University, Chennai from the academic year 2017-2018 onwards.

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

- I) “**Programme**” means Degree Programme, that is B.E./B.Tech. Degree Programme.
- II) “**Discipline**” means specialization or branch of B.E./B.Tech. Degree Programme, like Civil Engineering, Textile Technology, etc.
- III) “**Course**” means a theory or practical subject that is normally studied in a semester, like Mathematics, Physics, etc.
- IV) “**Director, Academic Courses**” means the authority of the University who is responsible for all academic activities of the Academic Programmes for implementation of relevant rules of this Regulations pertaining to the Academic Programmes.
- V) “**Chairman**” means the Head of the Faculty.
- VI) “**Head of the Institution**” means the Principal of the College.
- VII) “**Head of the Department**” means head of the Department concerned.
- VIII) “**Controller of Examinations**” means the authority of the University who is responsible for all activities of the University Examinations.
- IX) “**University**” means ANNA UNIVERSITY, CHENNAI.

2. ADMISSION

2.1 Candidates seeking admission to the first semester of the eight semester B.E. / B.Tech. Degree Programme:

Should have passed the Higher Secondary Examinations of (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.

(OR)

Should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

2.2 Lateral entry admission

(i) The candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamilnadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. in the branch corresponding to the branch of study.

(OR)

(ii) The candidates who possess the Degree in Science (B.Sc.,) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech.

Such candidates shall undergo two additional Engineering subject(s) in the **third and fourth semesters** as prescribed by the University.

3. PROGRAMMES OFFERED

B.E. / B.Tech. Programmes under the Faculty of Civil Engineering, Faculty of Mechanical Engineering, Faculty of Electrical Engineering, Faculty of Information and Communication Engineering and Faculty of Technology.

4. STRUCTURE OF PROGRAMMES

4.1 Categorization of Courses

Every B.E. / B. Tech. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

- i. **Humanities and Social Sciences (HS)** courses include Technical English, Engineering Ethics and Human Values, Communication skills, Environmental Science and Engineering.
- ii. **Basic Sciences (BS)** courses include Mathematics, Physics, Chemistry, Biology, etc.
- iii. **Engineering Sciences (ES)** courses include Engineering practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.
- iv. **Professional Core (PC)** courses include the core courses relevant to the chosen specialization/branch.
- v. **Professional Elective (PE)** courses include the elective courses relevant to the chosen specialization/ branch.

- vi. **Open Elective (OE)** courses include the courses from other branches which a student can choose from the list specified in the curriculum of the students B.E. / B. Tech. / B. Arch. Programmes.
- vii. **Employability Enhancement Courses (EEC)** include Project Work and/or Internship, Seminar, Professional Practices, Case Study and Industrial/Practical Training.

4.2 Personality and Character Development

All students shall enroll, on admission, in any one of the personality and character development programmes (NCC/NSS/NSO/YRC) and undergo training for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid.

National Cadet Corps (NCC) will have about 20 parades.

National Service Scheme (NSS) will have social service activities in and around the College / Institution.

National Sports Organization (NSO) will have sports, Games, Drills and Physical exercises.

Youth Red Cross (YRC) will have activities related to social services in and around College/Institutions.

While the training activities will normally be during weekends, the camp will normally be during vacation period.

4.3 Number of courses per semester

Each semester curriculum shall normally have a blend of lecture courses not exceeding 7 and Laboratory courses and Employability Enhancement Course(s) not exceeding 4. Each Employability Enhancement Course may have credits assigned as per clause 4.4. However, the total number of courses per semester shall not exceed 10.

4.4 Credit Assignment

Each course is assigned certain number of credits based on the following:

Contact period per week	CREDITS
1 Lecture Period	1
2 Tutorial Periods	1
2 Laboratory Periods (also for EEC courses like / Seminar / Project Work / Case study / etc.)	1

The Contact Periods per week for Tutorials and Practical can only be in multiples of 2.

4.5. Industrial Training / Internship

The students may undergo Industrial training for a period as specified in the Curriculum during summer / winter vacation. In this case the training has to be undergone continuously for the entire period.

The students may undergo Internship at Research organization / University (after due approval from the Department Consultative Committee) for the period prescribed in the curriculum during summer / winter vacation, in lieu of Industrial training.

4.6 Industrial Visit

Every student is required to go for at least one Industrial Visit every year starting from the second year of the Programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

4.7 Value Added Courses

The Students may optionally undergo Value Added Courses and the credits earned through the Value Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One / Two credit courses shall be offered by a Department **of an institution with the prior approval from the Head of the Institution.**

The details of the syllabus, time table and faculty may be sent to the Centre for Academic Courses and the Controller of Examinations after approval from the **Head of the Institution** concerned atleast one month before the course is offered. **Students can take a maximum of two one credit courses / one two credit course** during the entire duration of the Programme.

4.8 Online Courses

4.8.1 Students may be permitted to credit only one online course of 3 credits with the approval of **Head of the Institution** and Centre for Academic Courses.

4.8.2 Students may be permitted to credit one online course (which are provided with certificate) subject to a maximum of three credits. The approved list of online courses will be provided by the Centre for Academic courses from time to time. The student needs to obtain certification or credit to become eligible for writing the End

Semester Examination to be conducted by Controller of Examinations, Anna University. The details regarding online courses taken up by students should be sent to the Controller of Examinations, Anna University and Centre for Academic Courses one month before the commencement of End Semester Examination.

4.9 The students satisfying the following conditions shall be permitted to carry out their final semester Project work for six months in industry/research organizations.

The student should not have current arrears and shall have CGPA of 7.50 and above.

The student shall undergo the eighth semester courses in the sixth and seventh semesters. The Head of Department, in consultation with the faculty handling the said courses shall forward the proposal recommended by the Head of Institution to the Controller of Examinations through the Director, Centre for Academic courses for approval at least 4 weeks before the commencement of the sixth semester of the programme for approval.

4.10 Medium of Instruction

The medium of instruction is English for all courses, examinations, seminar presentations and project / thesis / dissertation reports except for the programmes offered in Tamil Medium.

5. DURATION OF THE PROGRAMME

- 5.1 A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (four academic years) but in any case not more than 14 Semesters for HSC (or equivalent) candidates and not more than 12 semesters for Lateral Entry Candidates.
- 5.1.1 A student is ordinarily expected to complete the B.E. Mechanical Engineering (Sandwich) Programme in 10 semesters (five academic years) but in any case not more than 18 Semesters for HSC (or equivalent) candidates.
- 5.2 Each semester shall normally consist of 75 working days or 540 periods of 50 minutes each. The Head of the Institution shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.
- 5.3 The Head of the Institution may conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods. But for the purpose of calculation of attendance requirement for writing the end semester examinations (as per clause 6) by the students, following method shall be used.

$$\text{Percentage of Attendance} = \frac{\text{Total no. of periods attended in all the courses per semester}}{(\text{No. of periods / week as prescribed in the curriculum}) \times 15 \text{ taken together for all courses of the semester}} \times 100$$

The University Examination will ordinarily follow immediately after the last working day of the semester commencing from I semester as per the academic schedule prescribed from time to time.

- 5.4 The total period for completion of the programme reckoned from the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study (vide clause 18) in order that he/she may be eligible for the award of the degree (vide clause 16).

6. COURSE REGISTRATION

- 6.1 The Institution is responsible for registering the courses that each student is proposing to undergo in the ensuing semester. Each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits (vide clause 6.5). The student can also register for courses for which the student has failed in the earlier semesters. In such cases the student shall do **reappearance registration** for those courses for which the attendance requirement is not compulsory. However, the student have the option to take up some other professional elective or open elective that he has failed to pass. **But, the total number of credits that a student is allowed to register per semester cannot exceed 36.** The registration details of the candidates may be approved by the Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations. No course shall be offered by any department of any institution unless a minimum 10 students register for the course.

The courses that a student registers in a particular semester may include

- i. Courses of the current semester.
- ii. The core (Theory/Lab /EEC) courses that the student has not cleared in the previous semesters.
- iii. Elective courses which the student failed (either the same elective or a different elective instead)

6.2 Flexibility to Drop courses

- 6.2.1 A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree.
- 6.2.2 From the III to final semesters, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses cannot exceed 6.
- 6.2.3 The student shall register for the project work in the final semester only.

7. ATTENDANCE REQUIREMENTS FOR COMPLETION OF THE SEMESTER

- 7.1 A Candidate who has fulfilled the following conditions shall be deemed to have satisfied the requirements for completion of a semester.

Ideally every student is expected to attend all classes of all the courses and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as Medical / participation in sports, the student is expected to attend atleast 75% of the classes.

Therefore, he/she shall **secure not less than 75%** (after rounding off to the nearest integer) of overall attendance as calculated as per clause 5.3.

- 7.2 However, a candidate who secures overall attendance between 65% and 74% in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / Participation in Sports events may be permitted to appear for the current semester examinations subject to the condition that the candidate shall submit the medical certificate / sports participation certificate attested by the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.
- 7.3 Candidates who **secure less than 65% overall attendance and candidates who do not satisfy the clause 7.1 and 7.2** shall not be permitted to write the University examination at the end of the semester and not permitted to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed.

8. CLASS ADVISOR

There shall be a class advisor for each class. The class advisor will be one among the (course-instructors) of the class. He / She will be appointed by the HoD of the department concerned. The class advisor is the ex-officio member and the Convener of the class committee. The responsibilities for the class advisor shall be:

- To act as the channel of communication between the HoD and the students of the respective class.
- To collect and maintain various statistical details of students.
- To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- To monitor the academic performance of the students including attendance and to inform the class committee.
- To attend to the students' welfare activities like awards, medals, scholarships and industrial visits.

9. CLASS COMMITTEE

- 9.1. Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching-learning process. The functions of the class committee include
- Solving problems experienced by students in the class room and in the laboratories.
 - **Clarifying the regulations of the degree programme and the details of rules therein particularly (clause 5 and 7) which should be displayed on college Notice-Board.**
 - Informing the student representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
 - Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work / seminar etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.
 - Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
 - Identifying the weak students, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students.
- 9.2 The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Head of the Institution.
- 9.3 The class committee shall be constituted within the first week of each semester.
- 9.4 At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee.
- 9.5 The Chairperson of the class committee may invite the Class adviser(s) and the Head of the Department to the class committee meeting.
- 9.6 The Head of the Institution may participate in any class committee of the institution.
- 9.7 The chairperson is required to prepare the minutes of every meeting, submit the same to Head of the Institution within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the Management by the Head of the Institution.
- 9.8 The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. **The Class Committee Chairman shall put on the Notice Board the cumulative attendance particulars of each student at the end of every such meeting to enable the students to know their attendance details to satisfy the clause 6 of this Regulation.** During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

10. COURSE COMMITTEE FOR COMMON COURSES

Each common theory course offered to more than one discipline or group, shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the Course Coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course committee' shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the internal assessment test(s).

11. SYSTEM OF EXAMINATION

11.1 Performance in each course of study shall be evaluated based on (i) continuous internal assessment throughout the semester and (ii) University examination at the end of the semester.

11.2 Each course, both theory and practical (including project work & viva voce Examinations) shall be evaluated for a maximum of 100 marks.

For all theory and practical courses including project work, the continuous internal assessment will carry **20 marks** while the End - Semester University examination will carry **80 marks**.

11.3 Industrial training and seminar shall carry 100 marks and shall be evaluated through internal assessment only.

11.4 The University examination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters.

11.5 The University examination for project work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the supervisor of the project group and an internal examiner.

11.6 For the University examination in both theory and practical courses including project work the internal and external examiners shall be appointed by the Controller of Examinations.

12. PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

For all theory and practical courses (including project work) the continuous assessment shall be for a maximum of 20 marks. The above continuous assessment shall be awarded as per the procedure given below:

12.1 THEORY COURSES

Three tests each carrying 100 marks shall be conducted during the semester by the Department / College concerned. The total marks obtained in all tests put together out of 300, shall be proportionately reduced for 20 marks and rounded to the nearest integer (This also implies equal weightage to all the three tests).

12.2 LABORATORY COURSES

The maximum marks for Internal Assessment shall be 20 in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 20 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be reduced to 20 and rounded to the nearest integer.

12.3 THEORY COURSES WITH LABORATORY COMPONENT

If there is a theory course with Laboratory component, there shall be three tests: the first two tests (each 100 marks) will be from theory portions and the third test (maximum mark 100) will be for laboratory component. The sum of marks of first two tests shall be reduced to 60 marks and the third test mark shall be reduced to 40 marks. The sum of these 100 marks may then be arrived at for 20 and rounded to the nearest integer.

12.4 PROJECT WORK

Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

The Head of the Institutions shall constitute a review committee for project work for each branch of study. There shall be three reviews during the semester by the review committee. The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be **reduced for 20 marks** and rounded to the nearest integer (as per the scheme given in 12.4.1).

- 12.4.1** The project report shall carry a maximum 30 marks. The project report shall be submitted as per the approved guidelines as given by Director, Academic Courses. Same mark shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 50 marks. Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.

Review I	Review II	Review III	End semester Examinations				
			Thesis Submission (30)		Viva-Voce (50)		
5	7.5	7.5	Internal	External	Internal	External	Supervisor
			15	15	15	20	15

- 12.4.2** If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-register for the same in a subsequent semester.

12.5 OTHER EMPLOYABILITY ENHANCEMENT COURSES

- (a) The seminar / Case study is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee appointed by Head of the Institution will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40%), presentation (40%) and response to the questions asked during presentation (20%).
- (b) The Industrial / Practical Training, Summer Project, Internship, shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial / Practical training / internship / Summer Project, the candidate shall submit a certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Institution. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examinations.

12.6 ASSESSMENT FOR VALUE ADDED COURSE

The one / two credit course shall carry 100 marks and shall be evaluated through **continuous assessments only**. Two Assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior Faculty member nominated by the Head of the Institution shall monitor the evaluation process. The list of students along with the marks and the grades earned may be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations.

12.7 ASSESSMENT FOR ONLINE COURSES

Students may be permitted to credit one online course (which are provided with certificate) subject to a maximum of three credits. The approved list of online courses will be provided by the Centre for Academic courses from time to time. **This online course of 3 credits can be considered instead of one elective course**. The student needs to obtain certification or credit to become eligible for writing the End Semester Examination to be conducted by Anna University. **The course shall be evaluated through the End Semester Examination only conducted by Controller of Examinations, Anna University.**

12.8. Internal marks approved by the Head of the Institution shall be displayed by the respective HODs within 5 days from the last working day.

12.9 Attendance Record

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the department periodically (at least three times in a semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the department will put his signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Institution who will keep this document in safe custody (for five years). The University or any inspection team appointed by the University may verify the records of attendance and assessment of both current and previous semesters.

13. REQUIREMENTS FOR APPEARING FOR UNIVERSITY EXAMINATIONS

A candidate shall normally be permitted to appear for the University Examinations for all the courses registered in the current semester (vide clause 6) if he/she has satisfied the semester completion requirements (subject to Clause 7).

A candidate who has already appeared for any subject in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades.

14. PASSING REQUIREMENTS

14.1 A candidate who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End semester University Examinations] with a minimum of 45% of the marks prescribed for the end-semester University Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and practical courses (including project work).

14.2 If a student fails to secure a pass in a theory course (except electives), **the student shall do reappearance registration** for that course in the subsequent semester, when offered next, earn continuous assessment marks and attend the end semester examination.

- 14.3 If the course, in which the student has failed, is a professional elective or an open elective, the student may be permitted to register for the same or any other professional elective or open elective course in the subsequent semesters, attend the classes and fulfill the attendance requirements as per Clause 7.
- 14.4 If a student fails to secure a pass in a laboratory course, **the student shall register** for the course again, when offered next.
- 14.5 If a student fails to secure a pass in project work, **the student shall register** for the course again, when offered next.
- 14.6 The passing requirement for the courses which are assessed only through purely internal assessments (EEC courses except project work), is 50% of the internal assessment (continuous assessment) marks only.
- 14.7 If a student has failed in the final semester examination he/she may be allowed to register for the course in the next semester itself.
- 14.8 A student can apply for revaluation of the student's semester examination answer paper in a theory course, within 2 weeks from the declaration of results, on payment of a prescribed fee along with prescribed application to the COE through the Head of the Institution. The COE will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institution. Revaluation is not permitted for laboratory course and project work.

15. AWARD OF LETTER GRADES

- 15.1 All assessments of a course will be evaluated on absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the candidate in each subject as detailed below:

Letter Grade	Grade Points	Marks Range
O (Outstanding)	10	91 - 100
A + (Excellent)	9	81 - 90
A (Very Good)	8	71 - 80
B + (Good)	7	61 - 70
B (Average)	6	50 - 60
RA	0	<50
SA (Shortage of Attendance)	0	
W	0	

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+", "B".

'SA' denotes shortage of attendance (as per clause 7.3) and hence prevention from writing the end semester examinations. 'SA' will appear only in the result sheet.

"RA" denotes that the student has failed to pass in that course. "W" denotes **withdrawal** from the exam for the particular course. The grades RA and W will figure both in Marks Sheet as well as in Result Sheet). In both cases the student has to earn Continuous Assessment marks and appear for the End Semester Examinations.

If the grade W is given to course, the attendance requirement need not be satisfied.

If the grade RA is given to a core **theory course**, the attendance requirement need not be satisfied, but if the grade RA is given to a **Laboratory Course/ Project work / Seminar and any other EEC course**, the attendance requirements (vide clause 7) should be satisfied.

15.2 For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS) / NSO / YRC, a satisfactory / not satisfactory grading will appear in the mark sheet. Every student shall put in a minimum of 75% attendance in the training and attend the camp compulsorily. The training and camp shall be completed during the first year of the programme. However, for valid reasons, the Head of the Institution may permit a student to complete this requirement in the second year. **A satisfactory grade in the above co-curricular activities is compulsory for the award of degree.**

15.3 The grades O, A+, A, B+, B obtained for the one credit course shall figure in the Mark sheet under the title '**Value Added Courses**'. The Courses for which the grades are RA, SA **will not figure in the mark sheet.**

Grade sheet

After results are declared, Grade Sheets will be issued to each student which will contain the following details:

- The college in which the candidate has studied
- The list of courses enrolled during the semester and the grade scored.
- The Grade Point Average (GPA) for the semester and
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

GPA for a semester is the ratio of the sum of the products of the number of credits for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester.

CGPA will be calculated in a similar manner, considering all the courses registered from first semester. RA grades will be excluded for calculating GPA and CGPA.

$$\text{GPA / CGPA} = \frac{\sum_{i=1}^n C_i \text{ GP}_i}{\sum_{i=1}^n C_i}$$

where C_i is the number of Credits assigned to the course

GP_i is the point corresponding to the grade obtained for each course

n is number of all courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA

16 ELIGIBILITY FOR THE AWARD OF THE DEGREE

16.1 A student shall be declared to be eligible for the award of the B.E. / B.Tech. Degree provided the student has

- i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.

- ii. Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 8 semesters / (10 Semesters for B.E. Mechanical Engineering (Sandwich)) within a maximum period of 7 years (9 years in case of B.E. Mechanical Engineering (Sandwich) and 6 years in the case of Lateral Entry) reckoned from the commencement of the first (third in the case of Lateral Entry) semester to which the candidate was admitted.
- iii. Successfully passed any additional courses prescribed by the Director, Academic Courses whenever readmitted under regulations R-2017 (vide clause 18.3)
- iv. Successfully completed the NCC / NSS / NSO / YRC requirements.
- v. No disciplinary action pending against the student.
- vi. The award of Degree must have been approved by the Syndicate of the University.

16.2 CLASSIFICATION OF THE DEGREE AWARDED

16.2.1 FIRST CLASS WITH DISTINCTION

A student who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction:

- Should have passed the examination in all the courses of all the eight semesters (10 Semesters in case of Mechanical (Sandwich) and 6 semesters in the case of Lateral Entry) in the student's First Appearance within **five** years (Six years in the case of Mechanical (Sandwich) and Four years in the case of Lateral Entry). Withdrawal from examination (vide Clause 17) will not be considered as an appearance.
- Should have secured a CGPA of not less than 8.50
- One year authorized break of study (if availed of) is included in the five years (Six years in the case of Mechanical (Sandwich) and four years in the case of lateral entry) for award of First class with Distinction.
- Should NOT have been prevented from writing end semester examination due to lack of attendance in any semester.

16.2.2 FIRST CLASS:

A student who satisfies the following conditions shall be declared to have passed the examination in **First class**:

- Should have passed the examination in all the courses of all eight semesters (10 Semesters in case of Mechanical (Sandwich) and 6 semesters in the case of Lateral Entry) **within Six years**. (Seven years in case of Mechanical (Sandwich) and Five years in the case of Lateral Entry)
- One year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of six years (Seven years in case of Mechanical (Sandwich) and five years in the case of lateral entry) for award of First class
- Should have secured a CGPA of not less than **7.00**

16.2.3 SECOND CLASS:

All other students (not covered in clauses 16.2.1 and 16.2.2) who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in **Second Class**.

16.3 A candidate who is absent in end semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification. (subject to clause 17 and 18)

16.4 Photocopy / Revaluation

A candidate can apply for photocopy of his/her semester examination answer paper in a theory course, within 2 weeks from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of Institutions. The answer script is to be valued and justified by a faculty member, who handled the subject and recommend for revaluation with breakup of marks for each question. Based on the recommendation, the candidate can register for the revaluation through proper application to the Controller of Examinations. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the candidate concerned through the Head of the Institutions. Revaluation is not permitted for practical courses and for project work.

A candidate can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

16.5 Review

Candidates not satisfied with Revaluation can apply for Review of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to Controller of Examination through the Head of the Institution.

Candidates applying for Revaluation only are eligible to apply for Review.

17. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

- 17.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Chairman, sports board and HOD) be granted permission to withdraw from appearing for the end semester examination in any course or courses in **ANY ONE** of the semester examinations during the entire duration of the degree programme. The application shall be sent to Director, Student Affairs through the Head of the Institutions with required documents.
- 17.2 Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN days prior to the commencement of the examination in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations.
- 17.2.1 Notwithstanding the requirement of mandatory 10 days notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 17.3 In case of withdrawal from a course / courses (Clause 13) the course will figure both in Marks Sheet as well as in Result Sheet. **Withdrawal essentially requires the student to register for the course/courses** The student has to register for the course, fulfill the attendance requirements (vide clause 7), earn continuous assessment marks and attend the end semester examination. However, withdrawal shall not be construed as an appearance for the eligibility of a candidate for First Class with Distinction.
- 17.4 Withdrawal is permitted for the end semester examinations in the final semester only if the period of study the student concerned does not exceed 5 years as per clause 16.2.1.

18. PROVISION FOR AUTHORISED BREAK OF STUDY

- 18.1 A student is permitted to go on break of study for a maximum period of one year as a single spell.

- 18.2 Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the candidate may apply for additional break of study not exceeding another one year by paying prescribed fee for break of study. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Director, Student Affairs in advance, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Institution stating the reasons therefore and the probable date of rejoining the programme.
- 18.3 The candidates permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. The students rejoining in new Regulations shall apply to the Director, Academic Courses in the prescribed format through Head of the Institution at the beginning of the readmitted semester itself for prescribing additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.
- 18.4 The authorized break of study would not be counted towards the duration specified for passing all the courses for the purpose of classification (vide Clause 16.1).
- 18.5 The total period for completion of the Programme reckoned from, the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.
- 18.6 If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1)

19. DISCIPLINE

- 19.1 Every student is required to observe disciplined and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the University / College. The Head of Institution shall constitute a disciplinary committee consisting of Head of Institution, Two Heads of Department of which one should be from the faculty of the student, to enquire into acts of indiscipline and notify the University about the disciplinary action recommended for approval. In case of any serious disciplinary action which leads to suspension or dismissal, then a committee shall be constituted including one representative from Anna University, Chennai. In this regard, the member will be nominated by the University on getting information from the Head of the Institution.
- 19.2 If a student indulges in malpractice in any of the University / internal examination he / she shall be liable for punitive action as prescribed by the University from time to time.

20. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The University may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and scheme of examinations through the Academic Council with the approval of Syndicate.

ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS
B.E. AERONAUTICAL ENGINEERING
REGULATIONS – 2017
CHOICE BASED CREDIT SYSTEM
I & II SEMESTERS CURRICULA AND SYLLABI

SEMESTER I

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
TOTAL				31	19	0	12	25

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8251	Materials Science	BS	3	3	0	0	3
4.	BE8253	Basic Electrical, Electronics and Instrumentation Engineering	ES	3	3	0	0	3
5.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
6.	GE8292	Engineering Mechanics	ES	5	3	2	0	4
PRACTICALS								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	ES	4	0	0	4	2
TOTAL				30	20	2	8	25

SEMESTER III

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	CONTACT			
					L	T	P	C
THEORY								
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
2.	ME8392	Manufacturing Technology	PC	3	3	0	0	3
3.	AE8301	Aero Engineering Thermodynamics	PC	3	3	0	0	3
4.	CE8394	Fluid Mechanics and Machinery	ES	4	4	0	0	4
5.	CE8395	Strength of Materials for Mechanical Engineers	ES	3	3	0	0	3
6.	AE8302	Elements of Aeronautical Engineering	PC	3	3	0	0	3
PRACTICAL								
7.	CE8381	Strength of Materials and Fluid Mechanics & Machinery Laboratory	ES	4	0	0	4	2
8.	AE8311	Thermodynamics Laboratory	PC	4	0	0	4	2
9.	HS8381	Interpersonal Skills/Listening & Speaking	EEC	2	0	0	2	1

CODE OF CONDUCTS FOR STUDENTS

1. NIET works Six days a week except 2nd & 3rd Saturday. Generally Monday to Friday will have Regular Timetable. 1st, 4th & 5th Saturdays will have special Timetable.
2. The Timings are: Morning 09.00 Hours to Evening 16.30 Hours. The day consists of 8 periods – 5 of 50 minutes duration, 2 of 45 minutes and 1 of 55 minutes. A short tea break is between 10.40 A.M to 10.50 A.M and lunch break is between 01.15 P.M to 02.00 P.M
3. Attendance is recorded for all periods and hence all must attend all classes without fail, to avoid complications at latter date. Seasonal – internal – marks depend on the attendance in each class.
4. Attendance is Compulsory for all working days (including 1st, 4th & 5th working Saturdays). Minimum of 75% attendance is required for eligibility to write University Exam. But, higher % of attendance is required for getting internal marks for attendance.
5. All must be in the Lecture Class or in the lab at least 5 minutes before 9'O clock.
6. All must attend the full class from beginning to end. No one should come late to the class or leave the class early.
7. All must follow proper dress code. During Lab Hours tucked-in uniform with shoes. (Girls with overcoat).
8. Students must maintain silence in the class. Class representative must call the faculty or advisor if Faculty has not come to the class on time.
9. Proper discipline, decency, decorum and dignity must be maintained in the entire campus. (both inside and out side the classes / labs)
10. Students must be polite and courteous in talking to and dealing with faculty.
11. Maintain cleanliness everywhere – Classrooms, Labs, Canteen and the entire surrounding.
12. Unauthorized assembly of students in subject to disciplinary action.
13. Handle the equipments / machines and other tools carefully so that they are not damaged or deteriorated or made unusable (Cost of the damaged ones will be recovered). Protect the institute properties from getting damaged.
14. Do and submit the assignments in time to get maximum internal marks.
15. Prepare for and write the tests well without fail which will help in getting good marks in the final exam as well as good internal marks.
16. Make use of Saturday hours for clarifications and Career & Personality Development Programmes.
17. Pay all the fees and dues on or before the due date to avoid penalty.
18. Use of Cell Phones in the campus is prohibited.

19. Ragging & teasing the students are criminal offence. The Indulger may be terminated from the college.
20. Contact the Grievances Readdress Committee, Class Advisor or the Principal for any Difficulty or a problem.

DRESS CODE NORMS

Civil dress is permitted on all days and occasions.

Civil/Colour dress code:

Boys:

Strictly formal – Shirt – full/half sleeved

Pant – tucked in and proper belt

Formal black shoe or descent chappal

Girls:

Churidhar or salwar with sleeves and with shawl/Duppatta – properly pinned

Descent chappal

Hair neatly dresses – natural colour.

The following dresses and practices are totally disallowed

Boys: (Not Permitted)

T. Shirt

Jeans Pants

Shirts/pants/sneakers with emblems/pictures/slogans

Dothis, Bermudas, Kurta, Pyjama

Chappals used for bathroom

Girls: (Not Permitted)

Other casual dresses/sarees and half sarees(except on special days and functions)

Yoga Pants, leggings, tights, kurtas, short tops, sports wear/training/exercise wears.

General Information

Working Days Monday to Saturday (Except 2nd and 3rd Saturday)

Timings 9.00 am to 4.30 pm

Tea Break 10.40 am to 10.50 am

Lunch Break 01.15 pm to 02.00 pm

Computer Center Training 9.00 am to 4.30 pm

Library Hours 8.30 am to 5.30 pm

LIBRARY RULES

1. All staff members and students are members of the library.
2. Use of library is normally restricted to its members only. Others have to produce written permission from the Principal to use the library facilities.
3. The library will be open from 8.30am to 5.30pm on all days except Sundays and Holidays.
4. Every student shall enter his/her name and class in the register kept at the entrance for the purpose.
5. Books, hand bags, umbrellas and other personal belongings must be left outside before entering the library. Only one note book is however is allowed to be taken inside if required for the purpose of taking notes.
6. For serious and useful study, calm and peaceful atmosphere is necessary. Students are therefore, required to observe strict silence and decorum in the library. Use of mobile phones inside the library is strictly prohibited.
7. The News papers, magazines and periodicals lying on the table shall not be removed from the reading room or from the place allotted for each.
8. Every student will be entitled to borrow a maximum of two books at a time from the library.
9. Before leaving the counter, the borrowers shall examine the books taken by them and point out any mutilation or defect in any book to the librarian and have these noted in the book and initialed by the librarian. Otherwise the borrowers will be held responsible for any damage or mutilation observed.
10. Members shall show the books borrowed from the library to the library staff while leaving at the gate.
11. Books issued to students must be returned within 14 days. The date of return of the book will be noted in the return slip pasted in the book. For retaining books beyond the due date of return, a member will have to pay an overdue charge of Rupees five per book per day.
12. The librarian has the right to call back any book issued to any member before the due date if it is wanted for some special reasons.
13. Writing in the books, soiling, causing damage to the binding, tearing of pages etc. are strictly forbidden.
14. If any book is lost, damaged or mutilated the borrower shall be required to replace the book (new one) with fine or have to pay such compensation as may be decided by the Principal.
15. The transfer or sub lending of books is strictly prohibited.

16. Journals and codes of practices cannot be taken outside the library.
17. While using internet, printout cannot be taken.
18. Students are to abide by any other rules / modification to existing rules issued from time to time.

BOYS HOSTEL RULES

- A student must remember that the hostel is the home of the students in the campus. He in should behave himself the campus as well as outside in such manner as to bring credit to him and to the Institute.
- No boarders shall be absent from the hostel without the prior permission of the Warden.
- No students should entertain unauthorized guests. The Chief Warden (Principal) reserves the right to deny entry into the Hostel to visitors if their visit is likely to disturb the peace and order of the hostel.
- Boarders are permitted to stay in the hostel during the academic session only, and are to vacate their rooms during the vacations unless there is special permission of the Chief Warden.
- Boarders are permitted to meet the visitors at the visitors' lounge of the hostel during the visiting hours only. Visiting hours of the hostels shall be 10.00am to 12.00 noon on holidays and 5.00pm to 6.00pm on working days.
- Day-scholars are not allowed in the hostel without permission of chief warden.
- A student once admitted in the hostel, will continue to be a hostel inmate throughout the year unless otherwise debarred from the hostel on disciplinary grounds and he will have to pay the room rent for both the terms.
- Every student should stay in the accommodation allotted to him by the Warden. Any change of accommodation without prior permission of the Warden is not permitted and the violation of this rule is considered as an act of indiscipline.
- Female visitors are not permitted to visit any time into the Boys Hostel without the permission of the Chief Warden.
- Students shall not remain absent from hostel during night between 9.00 pm to 6.00 am without the prior permission of the Warden/Chief Warden.
- Hostel students shall not leave the head-quarters without prior permission of the Warden/Chief Warden. They shall have to apply in prescribed form in advance stating the reason for leaving and the address of destination. Hostel students who leave hostel without the application and the

permission from the concerned authorities shall be deemed to be missing and parent / Guardian / police authorities may be intimated, in consultation with the Chief Warden.

- The inmates of the hostel will not leave the hostel premises on holidays for the purpose of excursion or picnic. Prior permission of the Chief Warden has to be obtained for going for any picnic or excursion. However for any eventuality that may occur during picnic/excursion, the responsibility does not lie with the Institute authorities.
- Consumption or storage or supplying any liquor or any sort of intoxicated drink/drug material is strictly prohibited and if found guilty, the same will be dealt with severely (including expulsion from the hostel). Students found in intoxicated state shall be expelled from hostel immediately. Any kind of gambling is also prohibited. phone / laptop etc. The Institute will not be responsible for any loss incurred due to his negligence or any other reason whatsoever.
- Student should check the fittings in his room at the time of occupation. If there is any deficiency or inadequacy, it should be brought to the notice of the hostel staff. He shall be responsible for the fittings and shall see to it that they are in order at the time of handing over charge of the room when he leaves the hostel.
- Room furniture, electric fittings, etc, are required to be maintained by the inmates in good condition. At the time of allotment of room and leaving the hostel for the vacations, every student must take-over and hand-over, respectively, the hostel property carefully. Students should invariably vacate the hostel during vacation. If they have to leave any belongings in the hostel during this period, he may do so at his own risk and for this purpose he should contact the hostel warden.
- In case of damage to any part of the hostel buildings, furniture, apparatus or other property of the institute, caused by inmates of the hostel, the loss shall be recovered from the persons identified as responsible for such damage. However, if the p*ersons causing damage cannot be identified, the cost of repairing the same as may be assessed will be distributed equally amongst all the inmates of the hostel or group of inmates of the hostel found responsible for the damage.
- Fans and lights must be switched off whenever the students leave their rooms. Lights must be switched off positively when they go to bed. In case it is noticed that the fans/lights are on in the locked room, a heavy penalty will be imposed for wasting the precious energy.
- Usage of computer and printer in the hostel room will be allowed with prior permission from the Chief Warden.
- The Chief Warden/ Warden or any staff of the institute authorized by the Chief Warden can inspect the room of any student in the hostel at any time.
- Decisions taken by the Hostel Management in connection with admission, discipline and general management are final and binding on all the hostel inmates.

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ACADEMIC CALENDAR 2019-20

JUNE, 2019

DAY	DATE	PARTICULARS	WORKING DAYS	
			I sem	III,V,VII sem
SAT	1			
SUN	2	SUNDAY		
MON	3			
TUE	4			
WED	5	WORLD ENVIRONMENT DAY		
THUR	6			
FRI	7			
SAT	8	SECOND SATURDAY		
SUN	9	FOUNDER CHAIRMAN'S DEATH ANNIVERSARY SUNDAY		
MON	10			
TUE	11			
WED	12			
THUR	13			
FRI	14			
SAT	15	THIRD SATURDAY		
SUN	16	SUNDAY		
MON	17			
TUE	18			
WED	19			
THUR	20			
FRI	21			
SAT	22			
SUN	23	SUNDAY		
MON	24	REOPENING (B.E. – III, V, VII SEM)		01
TUE	25			02
WED	26			03
THUR	27			04
FRI	28			05

JULY, 2019

DAY	DATE	PARTICULARS	WORKING DAYS	
			I Sem	III,V,VII Sem
MON	1			07
TUE	2			08
WED	3			09
THUR	4	MCT INDUSTRIAL VISIT - LMW PLACEMENT TRAINING IV YEAR		10
FRI	5	-		11
SAT	6	-		12
SUN	7	SUNDAY		
MON	8	CSE - VALUE ADDED - IOT TRAINING		13
TUE	9	EEE - ASSOCIATION INAUGURATION		14
WED	10	CSE - ASSOCIATION INAUGURATION MCT - INDUSTRIAL VISIT - SIGNALS AND TELECOMMUNICATION TRAINING CENTRE		15
THUR	11			16
FRI	12	AERO - GUEST LECTURE ON UAV		17
SAT	13	SECOND SATURDAY		
SUN	14	SUNDAY		
MON	15	VALUE ADDED - IOT TRAINING ECE - IETE SEMINAR REOPENING (BE I SEM) – BRIDGE COURSE INAUGURATION	01	18
TUE	16	-	02	19
WED	17	MCT - WORKSHOP ON AUTOMATION AND ROBOTICS	03	20
THUR	18	S&H – NOBLE TRAINING	04	21
FRI	19	CSE - IEEE & CYBERPUNK ACTIVITY S&H – NOBLE TRAINING	05	22
SAT	20	THIRD SATURDAY		
SUN	21	SUNDAY		
MON	22		06	23
TUE	23	CSE - IEEE & CYBERPUNK ACTIVITY	07	24
WED	24	MCT - VALUE ADDED TRAINING	08	25
THUR	25		09	26
FRI	26	ECE - SEMINAR – NANO ELECTRONICS EEE - WORKSHOP – MATLAB AND LAB VIEW	10	27

AUGUST, 2019

DAY	DATE	PARTICULARS	WORKING DAYS	
			I sem	III,V,VII Sem
THUR	1		15	32
FRI	2	AERO - WORKSHOP ON DRONES	16	33
SAT	3	MCT – INDUSTRIAL VISIT - KUNDHA POWER PLANT S&H NOBLE TRAINING	17	34
SUN	4	SUNDAY		
MON	5	INTERNAL TEST – I (B.E. – III, V, VII Sem) FRESHER’S DAY INAUGURATION	18	35
TUE	6	-	19	36
WED	7	-	20	37
THUR	8	MCT - GUEST LECTURE	21	38
FRI	9	CSE – SEMINAR MECH - INAUGURATION OF KALAM 2020	22	39
SAT	10	SECOND SATURDAY		
SUN	11	SUNDAY		
MON	12	BAKRID		
TUE	13	EEE- SEMINAR	23	40
WED	14	MCT - WORKSHOP ON IOT	24	41
THUR	15	INDEPENDENCE DAY		
FRI	16	PARENTS MEETING (B.E. – III, V, VII Sem)	25	42
SAT	17	THIRD SATURDAY		
SUN	18	SUNDAY		
MON	19		26	43
TUE	20		27	44
WED	21	ECE - VALUE ADDED TRAINING IOT	28	45
THUR	22	CSE - HANDS ON TRAINING EEE - GUEST LECTURE MCT-INDUSTRIAL VISIT	29	46
FRI	23	MECH - KNOWLEDGE CORNER ACTIVITY MCT-INDUSTRIAL VISIT	30	47
SAT	24	KRISHNA JAYANTHI		
SUN	25	SUNDAY		

SEPTEMBER, 2019

DAY	DATE	PARTICULARS	WORKING DAYS	
			I Sem	III, V, VII Sem
SUN	1	SUNDAY		
MON	2	VINAYAGAR CHATURTHI		
TUE	3		37	54
WED	4	ECE - VALUE ADDED TRAINING EMBEDDED SYSTEM DESIGN MCT - SEMINAR	38	55
THUR	5		39	56
FRI	6	CSE – FDP EEE - GUEST LECTURE MECH - KNOWLEDGE CORNER ACTIVITY	40	57
SAT	7	ONAM CELEBRATION	41	58
SUN	8	SUNDAY		
MON	9	ONAM		
TUE	10	ONAM & MUHHARAM		
WED	11	ONAM		
THUR	12	ONAM		
FRI	13	ONAM		
SAT	14	SECOND SATURDAY		
SUN	15	SUNDAY		
MON	16		42	59
TUE	17		43	60
WED	18	ENGINEER'S DAY CELEBRATION	44	61
THUR	19	MCT - GUEST LECTURE – CONTROL SYSTEM	45	62
FRI	20	CSE - IEEE & CYBERPUNK ACTIVITY MECH - KNOWLEDGE CORNER ACTIVITY	46	63
SAT	21	THIRD SATURDAY		
SUN	22	SUNDAY		
MON	23		47	64
TUE	24		48	65
WED	25		49	66
THUR	26	MCT - SEMINAR	50	67
FRI	27	NSS - AIDS AWARENESS DAY EEE - SEMINAR	51	68

OCTOBER, 2019

DAY	DATE	PARTICULARS	WORKING DAYS	
			I Sem	III, V, VII Sem
TUE	1	ECE - GUEST LECTURE	55	71
WED	2	GANDHI JAYANTHI		
THUR	3	NATURE CLUB ACTIVITY	55	72
FRI	4		56	73
SAT	5		57	74
SUN	6	SUNDAY		
MON	7	AYUDHA POOJA		
TUE	8	VIJAYA DASAMI		
WED	9		58	75
THUR	10		59	76
FRI	11	CSE - CSI ACTIVITY MECH - KNOWLEDGE CORNER ACTIVITY	60	77
SAT	12	SECOND SATURDAY		
SUN	13	SUNDAY		
MON	14	MODEL EXAMS(B.E. – III, V, VII Sem) INTERNAL TEST – II (B.E. –I Sem)	61	78
TUE	15		62	79
WED	16	ENGLISH CLUB ACTIVITY	63	80
THUR	17		64	81
FRI	18	MECH - KNOWLEDGE CORNER ACTIVITY	65	82
SAT	19	THIRD SATURDAY LAST WORKING DAY (B.E. – III, V, VII Sem) ECE - GUEST LECTURE	66	83
SUN	20	SUNDAY		
MON	21	COMMENCEMENT OF PRACTICAL EXAMINATION (B.E. – III, V, VII Sem)	67	
TUES	22		68	
WED	23		69	
THUR	24		70	

NOVEMBER, 2019

DAY	DATE	PARTICULARS	WORKING DAYS	
			I Sem	III, V, VII Sem
FRI	1		77	
SAT	2		78	
SUN	3	SUNDAY		
MON	4		79	
TUE	5		80	
WED	6	COMMENCEMENT OF END SEMESTER EXAMINATIONS (B.E. – III, V, VII Sem) S&H - GUEST LECTURE	81	
THUR	7		82	
FRI	8		83	
SAT	9	SECOND SATURDAY		
SUN	10	SUNDAY MILADI NABI		
MON	11		84	
TUE	12		85	
WED	13		86	
THUR	14		87	
FRI	15		88	
SAT	16	THIRD SATURDAY		
SUN	17	SUNDAY		
MON	18	INTERNAL TEST – III (B.E. –I Sem)	89	
TUE	19		90	
WED	20		91	
THUR	21		92	
FRI	22	MECH - WORKSHOP RESEARCH PAPER WRITING	93	
SAT	23		94	
SUN	24	SUNDAY		
MON	25		95	
TUE	26		96	
WED	27		97	
THUR	28		98	

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DECEMBER, 2019

DAY	DATE	PARTICULARS	WORKING DAYS	
				II, IV,VI,VIII Sem
SUN	1	SUNDAY		
MON	2	MODEL EXAMS – III (B.E. –I Sem)	101	
TUE	3		102	
WED	4		103	
THUR	5		104	
FRI	6			
SAT	7			
SUN	8	SUNDAY		
MON	9	COMMENCEMENT OF UNIVERSITY EXAMS (I SEMESTER)		
TUE	10			
WED	11			
THUR	12			
FRI	13			
SAT	14	SECOND SATURDAY		
SUN	15	SUNDAY		
MON	16	AERO - FDTP ON AIRCRAFT STRUCTURES I REOPENING (B.E. - II, IV, VI, VIII SEM)		01
TUE	17			02
WED	18			03
THUR	19			04
FRI	20			05
SAT	21	THIRD SATURDAY CAREER GUIDANCE PROGRAMME		
SUN	22	SUNDAY		
MON	23			06
TUE	24			07
WED	25	CHRISTMAS		
THUR	26			08

JANUARY, 2020

DAY	DATE	PARTICULARS	WORKING DAYS	
				II ,IV,VI,VI II Sem
WED	1	NEW YEAR		
THUR	2			13
FRI	3	ECE WORKSHOP- VIRTUAL INSTRUMENTATION USING LAB VIEW MCT WORKSHOP - SIGNALS AND TELECOMMUNICATION		14
SAT	4	MCT - SEMINAR – ADVANCEMENTS IN PNEUMATICS		15
SUN	5	SUNDAY		
MON	6			16
TUE	7			17
WED	8			18
THUR	9			19
FRI	10	MECH - KNOWLEDGE CORNER ACTIVITY		20
SAT	11	SECOND SATURDAY		
SUN	12	SUNDAY		
MON	13			21
TUE	14			22
WED	15	PONGAL		
THUR	16	PONGAL		
FRI	17	PONGAL		
SAT	18	THIRD SATURDAY		
SUN	19	SUNDAY		
MON	20			23
TUE	21			24
WED	22			25
THUR	23			26
FRI	24	CSE – WORKSHOP MCT GUEST LECTURE- EMBEDDED PROGRAMMING		27
SAT	25	AERO -TECHNICAL LEVEL SYMPOSIUM VIHAAN		28

FEBRUARY, 2020

DAY	DATE	PARTICULARS	WORKING DAYS	
				II, IV,VI,VIII sem
SAT	1	AERO - SEMINAR ON NON DESTRUCTIVE TESTING		34
SUN	2	SUNDAY		
MON	3	GO GREEN EVENT		35
TUE	4	EEE- GUEST LECTURE MCT - GUEST LECTURE SUPPLY CHAIN MANAGEMENT		36
WED	5			37
THUR	6			38
FRI	7	AWARENESS PROGRAMME CSE - SEMINAR		39
SAT	8	SECOND SATURDAY		
SUN	9	SUNDAY		
MON	10			40
TUE	11			41
WED	12	EEE - WORKSHOP		42
THUR	13			43
FRI	14	ECE WORKSHOP- IMAGE PROCESSING USING MATLAB MECH - TECHNICAL SYMPOSIUM KALAM 2020 MCT - SYMPOSIUM – CYTHON 2020		44
SAT	15	THIRD SATURDAY		
SUN	16	SUNDAY		
MON	17			45
TUE	18			46
WED	19			47
THUR	20	MCT - GUEST LECTURE – STRESS MANAGEMENT TECHNIQUES		48
FRI	21			49
SAT	22			50
SUN	23	SUNDAY		

MARCH, 2020

DAY	DATE	PARTICULARS	WORKING DAYS	
				II,IV,VI,VIII Sem
SUN	1	SUNDAY		
MON	2			57
TUE	3			58
WED	4	MCT - SEMINAR		59
THUR	5			60
FRI	6	EEE - TECHNICAL SYMPOSIUM MECH- KNOWLEDGE CORNER ACTIVITY		61
SAT	7			62
SUN	8	SUNDAY		
MON	9			63
TUE	10	EEE - ASSOCIATION VALEDICTION		64
WED	11			65
THUR	12	CSE – FDP IEEE & CYBERPUNK ACTIVITY		66
FRI	13	ECE - SEMINAR – IOT USING LORA PI DAY CELEBRATION		67
SAT	14	SECOND SATURDAY		
SUN	15	SUNDAY		
MON	16	EEE- GUEST LECTURE		68
TUE	17	MECH- KNOWLEDGE CORNER ACTIVITY		69
WED	18	SPORTS DAY		70
THUR	19	AVATAR'20		71
FRI	20	COLLEGE DAY		72
SAT	21	THIRD SATURDAY		
SUN	22	SUNDAY		
MON	23			73
TUE	24	CSE - ASSOCIATION VALEDICTION		74
WED	25	UGADI		
THUR	26			75
FRI	27	ECE - PROJECT EXPO VIDHYUTHA 2020		76

APRIL, 2020

DAY	DATE	PARTICULARS	WORKING DAYS	
				II,IV,VI,VIII Sem
WED	1	-		80
THUR	2			81
FRI	3			82
SAT	4			83
SUN	5	SUNDAY		
MON	6			84
TUE	7			85
WED	8			86
THUR	9			87
FRI	10	GOOD FRIDAY		
SAT	11	SECOND SATURDAY		
SUN	12	SUNDAY EASTER		
MON	13			
TUE	14	TAMIL NEW YEAR VISHU		
WED	15			88
THUR	16			89
FRI	17	LAST WORKING DAY		90
SAT	18	THIRD SATURDAY		
SUN	19	SUNDAY		
MON	20	COMMENCEMENT OF UNIVERSITY EXAMINATIONS		91
TUE	21			
WED	22			
THUR	23			
FRI	24			
SAT	25			
SUN	26	SUNDAY		
MON	27			

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MAY, 2020

DAY	DATE	PARTICULARS	WORKING DAYS	
				II,IV,VI,VIII Sem
FRI	1	MAY DAY		
SAT	2			
SUN	3	SUNDAY		
MON	4			
TUE	5			
WED	6			
THUR	7			
FRI	8			
SAT	9	SECOND SATURDAY		
SUN	10	SUNDAY		
MON	11			
TUE	12			
WED	13			
THUR	14			
FRI	15			
SAT	16	THIRD SATURDAY		
SUN	17	SUNDAY		
MON	18			
TUE	19			
WED	20			
THUR	21			
FRI	22			
SAT	23			
SUN	24	SUNDAY IDUL FITR		
MON	25			
TUE	26			

