Sant Dnyaneshwar Shikshan Sanstha's

Annasaheb Dange College of Engineering & Technology

Academic Rules and Regulations

For Autonomous Institute

(COMMON FOR ALL BRANCHES)

UG PROGRAMS

Academic Year 2019-20

INDEX

1. PRELIMINARY DEFINITIONS AND NOMENCLATURES:

1.1. "**Autonomous Institute / college**" mean an institute / college designated as autonomous institute by the Shivaji University, Kolhapur, as per University College Status and Regulations

1.2. "**Academic Autonomy**" means freedom to the college in all aspects of conducting its academic programs, granted by the University for promoting excellence

1.3. "**UGC**" means University Grant Commission

1.4. "**AICTE**" means All India Council for Technical Education

1.5. "**DTE**" means Directorate of Technical Education

1.6. "**SUK**" means Shivaji University, Kolhapur

1.7. "**BOG**" means Board of Governance of the college

1.8. "**Programme**" shall mean a structured package of the courses offered by the college leading to B. Tech/ M. Tech. degree.

1.9. "**B. Tech**" means Bachelor of Technology

1.10. "**M. Tech**" means Master of Technology

1.11. "**Branch**" means specialization in a program like B. Tech. Degree program in Mechanical Engineering or Electrical Engineering; M. Tech. Degree program in Computer Science and Engineering or Mechanical Design Engineering etc

1.12. "**Course / Subject**" mean a theory, practical, project subject, identified by its course number and course title, which is studied in a semester. For example: 0MEBS105 Numerical Method and approved by concerned authorities.

1.13. "**Course Coordinator**" means a faculty member who shall have full responsibility for the course, coordinating the work of other faculty member(s) involved in that course, including examinations and award of grades.

1.14. **"ISE**" means In-Semester Evaluation.

1.15. "**MSE**" means Mid Semester Examination

1.16. "**ESE**" means End Semester Examination

1.17. "**SPI**" means Semester Performance Index

1.18. "**FYPI**" means first year performance Index

1.19. "**CPI**" means Cumulative Performance Index

1.20. "**BOS**" means Board of Studies

1.21. "**HOD**" means Head of the department

1.22. "**DAC**" means Departmental Academic Committee

1.23. "**DEC**" means Departmental Examination Coordinator

1.24. "**UG**" means Undergraduate

1.25. "**PG**" means Post Graduate

1.26. "**EC**" means Examination Committee

1.27. "**COE**" means Controller of Examination

1.28. **"ATKT"** means Allowed To Keep Terms

1.29. "**Student**" means a student registered for UG / PG programme for full time study leading to B. Tech. / M. Tech. degree

1.30. "**DSE**" means a student who is admitted directly to second year of the degree program after completion of the Diploma Course and registered for undergraduate programme for full time study leading to B. Tech. degree.

2. INTRODUCTION:

2.1. Genesis

Annasaheb Dange College of Engineering and Technology (ADCET) was founded with a vision to create educational facilities to the socially, educationally and economically underprivileged youth from rural areas in and around Ashta. A new chapter was added to the history of Ashta with the establishment of ADCET in the academic year 1999. The college is situated in Ashta village, 18 km from Sangli in a sprawling area of more than 20 acres, approved by the All India Council for Technical Education (AICTE) and affiliated to Shivaji University, Kolhapur. Over the years, the college has grown by leaps and bounds in every aspect. This college has become one of the pioneering technical institutions in this part of the country in a very short span offering 7 under graduate courses and 2 post graduate courses in

engineering and technology. Founded on June 30th, 1999, by Hon. Annasaheb Dange, a highly regarded social reformer, Annasaheb Dange College of Engineering and Technology started with a mission of providing technical education to the rural masses of India and make them world winners. The institute creation signaled the beginning of the transformation of Ashta region in Sangli District of Maharashtra State. During its journey of 19 years, ADCET has grown from a narrowly focused technical institute to a regionally recognized technological hub.

The institute initially started with three courses in engineering having an intake capacity of 180 students and over a period of 19 years now the institute is currently running 7 UG courses with intake of 660 and 2 PG courses with intake 36. Throughout its long history, ADCET has always focused its efforts on preparing students to use their innovative skills and strong work ethic to solve real-world problems and improve the lives of people around the region. Equipped with the extremely rich resources of an outstanding student body and faculty; strong partnerships with business, industry, and government; and support from alumni and friends, ADCET is designing a future of Indian preeminence, leadership, and service.

- ADCET is accredited with "A" grade by NAAC
- All eligible Programmes are accredited by NBA for three years and also having ISO 9001:2015 Certification.
- ADCET is ranked as 29th amongst Top 100 Engineering Colleges in India during survey conducted by Higher Education Review magazine in 2017.
- The strong academic work ethic at ADCET is balanced by a congenial college atmosphere incorporating both intercollegiate sports, campus traditions, and student organizations.
- Alongside their academic achievements, ADCET students are also active in the community, earning a well-rounded education through community service activities.

Some Salient features of the institute developed over a period are given below:

- Project and activity based teaching-learning process.
- State of the art laboratories and infrastructure.
- World class sports complex with full-fledged facilities as per international standards.
- State of the art central library.

- Student to faculty ratio is as per AICTE norms. We have attracted some of the best faculties from every corner of the nation with a passion to learn and teach.
- From the inception of the institute the institute has the history of producing rankers in the university examination.
- The placement of the students is increasing year by year with more MNC & SME Grade companies visiting the campus.
- All eligible programs accredited by NBA
- The institute is accredited by NAAC with 'A' grade
- Institute is ISO 9001:2015 certified.
- Various MoU's are signed by the institute with industries
- Implementation of Outcome Based Education (OBE)
- Student chapters for their overall development.

ADCET is committed to offer excellent engineering education to prepare the graduates with domain knowledge, requisite skills and right attitude. The Programme educational objectives aim to prepare engineering graduates capable of addressing many issues related with the respective Programme, both in the local and global context, and providing optimal engineering solutions with concern to economics, environment and ethics. Each stakeholder of the institute is committed to prepare the students who will develop their expertise in their specialization within three to four years of experience of working in the field and will have concern to many social and contemporary issues. The lifelong learning and self study attitude developed during graduation will help them to upgrade technically and adapt to the changes constantly occurring in their field of specialization.

Programs Offered:

Table-1: Under Graduate (U.G.) Programs (B. Tech.) offered by the institute

Sr. No	Branch	Degree	Branch Code
1.	Mechanical Engineering	B. Tech. (Mechanical Engineering)	ME
2.	Electronics and Telecommunication Engineering	B. Tech. (Electronics and Telecommunication Engineering)	ET
3.	Computer Science and Engineering	B. Tech.(Computer Science and Engineering)	CS
4.	Electrical Engineering	B. Tech. (Electrical Engineering)	EE

5.	Civil Engineering	B. Tech. (Civil Engineering)	CV
6.	Automobile Engineering	B. Tech. (Automobile Engineering)	AU
7.	Aeronautical Engineering	B. Tech. (Aeronautical Engineering)	AE
8.	Food Technology	B. Tech. (Food Technology)	FT

UG Program consists of courses in Humanities and Social Sciences (HS), Basic Sciences (BS), Engineering Sciences (ES), Professional Core (PC) and Professional Elective (PE), Open Elective (OE), Project work and Dissertation, Mandatory Courses (MC) and Audit Courses (AC). The sequence of study consists of broadly four stages.

The first stage involves introduction to courses in basic sciences, humanities and social sciences and engineering sciences.

The second stage involves the study of engineering courses that emphasize a broad based knowledge in interdisciplinary areas which enables a student to appreciate the links between basic science, engineering science, technology and humanities.

In the third stage, a student is exposed to courses in the chosen branch of Engineering which dwell on the principles governing design and which develop in them the ability for physical and analytical modeling, design and development.

During the fourth stage, a student studies problems of integrated design with an awareness of size, performance, optimization and cost.

The student works for his/her final year project in a small group under the supervision of the faculty member/instructor assigned to the group.

A student is also introduced to the social and economic objectives of the era and to the interaction between man, machine and nature. This is achieved through courses in humanities & social sciences, through practical training, fieldwork, industrial visits, seminars etc.

2.2. Institute Vision

To be a Leader in producing professionally competent engineers

2.3. Institute Mission

We at ADCET, Ashta are committed to achieve our vision by

- Imparting effective outcome based education

- Preparing students through skill oriented courses to excel in their profession with ethical values
- Promoting research to benefit the society
- Strengthening relationship with all stakeholders

Core Values:

- **Excellence:**
  Our excellence is derived from a persistent commitment to hard work, diligence, perseverance, and consistency in the pursuit of the highest quality in whatever we do.
- **Collaboration:**
  We value engagement and connection at multiple levels in our professional lives including work relationships, research, scholarship, service, and teaching and believe that collaboration is an important element of our professional success.
- **Integrity:**
  An uncompromising commitment to honesty underlies everything we do.
- **Innovation:**
  We value and support each other in taking risks and we strive to create economic and societal value.
- **Respect:**
  We respect one another in an environment in which we value, consider, and are influenced by others 'feelings and perspectives'.
- **Responsibility:**
  Everyone understands the responsibility and strive to deliver in best possible manner and is ready for appraisal.

2.4. Admission

Normal guidelines set as the candidate should have passed H.S.C. (12^{th} Std) of the Maharashtra State Board or its equivalent examination with subjects English, Physics and Chemistry and Mathematics and secured 50% marks (45% marks for BC candidate of Maharashtra State only) in the subject of Physics, Chemistry and Mathematics added together.

However, general rules and regulation followed shall be the terms for admission to any program offered by the institute, required to satisfy the conditions of admission thereto prescribed by the Shivaji University, Kolhapur and appropriate statutory bodies like DTE, AICTE etc. The admission process will be according to the directions and guidelines issued by the appropriate authorities from time to time. Lateral admission directly to second year of B. Tech. program for candidates with three year full time diploma / B.Sc. is possible. The admission process will be according to the directions and guidelines issued by the appropriate authorities from time to time.

Reservation of seats for admission to UG programs shall be as per norms and procedures of Government.

3. STRUCTURE AND CURRICULUM FRAMEWORK:

3.1. General Out Line

Annasaheb Dange College of Engineering & Technology, Ashta follows the curriculum consisting of credit courses in its academic programs. Each course is associated with a fixed credit. All programs are defined by its total credit requirement and a pattern of credit distribution over courses of different categories. Total credit requirement for UG programs are 165-170. The total number of credits in a semester which a student registers shall be in between 20 to 25.

Each credit course shall have a certain number of credits assigned to it depending upon the academic load of the course, which would be assessed on the basis of weekly contact hours of theory lectures and laboratory sessions. The credits for the Project shall be assigned depending upon the quantum of work expected.

The courses offered in a semester shall be continually assessed and evaluated to judge the performance of a student. Evaluation will also be based on assessing core skills, professional skills and communication skills gained by the student.

3.2. Duration of the Programs

3.2.1. B. Tech. Program extends over a period of four academic years or eight semesters leading to the Degree of Bachelor of Technology of Shivaji University, Kolhapur. The maximum period within which a student must complete a full-time academic program is 8 (eight) years for B. Tech. program. If student fails to complete the academic program within the maximum duration as specified above, he/she has to

withdraw from the program. However, student can seek re-admission to the first year of the program as a fresh candidate.

3.2.2. The students admitted under lateral entry scheme (Direct Second Year), B. Tech. degree program extends over a period of three academic years leading to the Degree of Bachelor in Technology of Shivaji University, Kolhapur. For the student admitted under lateral entry scheme in B. Tech. program, the maximum period within which a student must complete a full time academic program is 6 (six) years. If student fails to complete the academic program within the maximum duration as specified above, he/she has to withdraw from the program.

3.3. Medium of Instruction

The medium of instruction in the institute is English

3.4. Minimum Instruction Days and Contact Hours

The minimum instruction for each semester shall be 90 instruction days excluding end semester examination. Expected contact hours per week shall be in the range of 28 – 32.

3.5. Curriculum:

Every programme has a prescribed course structure which in general terms is known as Curriculum. It prescribes courses to be studied in each semester. The booklet containing course structure along with detailed syllabus for each course of each program is updated periodically and is uploaded on the college website http://www.adcet.in.

3.6. Semesters:

ADCET implements a credit based semester system. The academic year is divided into two regular semesters. The semesters those begin in July are known as Odd semesters and those begin in January are known as Even semesters. Total duration of each semester is generally of 20 weeks including the period of examination, evaluation and grade declaration.

3.7. Curriculum Framework

Curriculum Framework is important in setting the right direction for a degree program, as it takes into account the type and quantum of knowledge necessary to be acquired by a student to qualify for a particular award in his/her chosen program. Besides this it also helps in assigning the credits to each

course, sequencing the courses semester-wise and finally arriving at the total number of courses to be studied and total number of credits to be earned by a student to fulfill the requirement for a particular conferment.

Table-2: A typical Framework for B. Tech Program

S.No.	Subject Area	Range of Total Credits (%)	
		Minimum	Maximum
1.	Humanities and Social Sciences (HS), including Management	5	10
2.	Basic Sciences(BS) including Mathematics, Physics, Chemistry, etc	15	20
3.	Engineering Sciences (ES), Engineering Graphics, Basic Civil/Mechanical/Electrical/ Electronics, Computer programming etc	15	20
4.	Professional Subjects-Core (PC), relevant to the chosen specialization/branch	30	40
5.	Professional Subjects – Electives (PE), relevant to the chosen specialization/ branch	10	15
6	Open Subjects- Electives (OE), from other technical and/or emerging subject areas	5	10
7	Mini-Project, Project Work, Seminar etc	10	15
8	Mandatory Courses (MC); Audit Courses(AC)	Non-Credit	

3.8. Course Numbering Scheme

Course numbers are denoted by eight alpha-numerals: Example: 0MEBS205: Numerical Method

Table-3: Course Code Description

First Digit	Second and Third Digits	Fourth and Fifth Digits	Sixth Digit	Seven and Eight Digits
Indicate Revision Number	Indicate Branch	Indicate Course Category	Indicate Year of Programme	Indicate Subject Code
0: Initial revision 1: First revision 2: Second revision	ME: Mech. Engg. CE: Civil Engg	PC: Professional Core BS: Basic Sciences ES: Engg. Sciences	1:First Year 2:Second Year 3:Third Year	01: First Subject 02:Second Subject 03: Third Subject

3.9. Course Credit System/Structure:

In general, a certain quantum of work measured in terms of credits is laid down as the requirement for a particular program. Calculation of number of credits for a course in any semester is as per Table-4.

There are mainly three types of courses- Theory courses, Laboratory courses and Courses of Special Nature such as Mini-Projects and Projects. A theory course consists of Lecture hours (L) and Tutorial hours (T). Tutorial hours may not be assigned to a particular theory course if it has a separate laboratory course. Laboratory course consists of practical hours (P) for which a student works in a Laboratory/Drawing Hall/Workshop. The other courses required to be taken by a student include seminar, mini project, and project at various levels of the program. Special courses like industrial training, NSS, NCC shall be treated as audit courses and shall be reflected in the grade card.

Table-4: Credits for a course

Sr. No	Course	Credits
1.	Lecture of 1 hour/week	1
2.	Tutorial of 1 hour/week	1
3.	Laboratory/ Drawing/mini-project of two hours/ week	1
4.	Seminar (1 hour per week)	1
5.	Final Year Project	Minimum 8

Table-5: A typical credit structure

L	T	P	Credits L : T : P	Total Credits	Total Contact Hours
3	0	0	3: 0: 0	3	3
3	1	0	3: 1: 0	4	4
3	0	4	3: 0: 2	5	7
3	1	2	3: 1: 1	5	6
0	0	4	0: 0: 2	2	4

Note: L – lectures: hrs/week; T – Tutorials: Hrs/week; P – Practical: Hrs/Week.
A student shall earn credits for a particular course by fulfilling the minimum academic requirements for attendance and evaluation.

3.10. Audit Course:

- A student may have to register for an audit course in a semester which could be institute requirement or department requirement.

- An audit course may include either a) a regular course required to be done as per structure or required as pre-requisite of any higher level course or b) the programmes like practical training, industry visits, societal activities etc.
- Audit course shall not carry any credits but shall be reflected in Grade Card as "PP"/"NP" depending upon the satisfactory performance in the in-semester evaluation and any other evaluation as decided by DAC of respective department.

3.11. Seminar:

Seminar is a course requirement, wherein under the guidance of a faculty advisor, a student is expected to do in-depth study in a specialized area by carrying out a literature survey, understanding different aspects related to that area, preparing a status report based on the topic chosen. For a seminar course, a student is expected to learn investigation methodologies, study relevant research papers, correlate work of various authors/researchers critically, study the concepts, techniques & prevailing results, analyze those, prepare a seminar report on all these aspects. It shall be mandatory to give a seminar presentation before a panel constituted for this purpose. The grading shall be done on the basis of the depth of the work done, understanding of the problem, technical quality of the report prepared and presentation given by the student.

3.12. Project:

Project is a course requirement, wherein under the guidance of a faculty advisor, a final year student is required to do some innovative/contributory/developmental work with application of knowledge earned while undergoing various theory and laboratory courses in his/her course of study. A student has to exhibit both analytical and practical skills through the project work.

A student has to carry out project under the guidance of a faculty advisor from the same discipline unless specifically permitted by the Department Academic Committees (DAC).

The B. Tech. project shall be done in the final year and is divided into two stages. Normally the first stage shall be carried out in Semester-VII while the second stage shall be carried out in Semester-VIII. The quantum of work expected to be carried out by a student in each phase shall be in accordance with the division of credits given in Sec. 3.9.

4. REGISTRATION:

4.1. Regular Entry

4.1.1. Every student must register for the courses that he/she wants to study for earning credits at the beginning of each academic year on the prescribed dates announced from time to time and shall be mandatory for every student till he/she completes the program. Only after registration his/her name shall appear in the roll list of each of such courses.

4.1.2. Students shall be permitted for Registration only after payment of institute fees in full for that academic year

4.1.3. Registration according to rules should be carried out as per the schedule notified from time to time. Late registration may be permitted only for valid reasons and on payment of late registration fees.

4.1.4. For registration in an odd semester (From third semester onwards), the student must have earned all the credits of the pre- previous year and at least 75% credits of the previous year. For example, for registration of the fifth semester courses (i.e. Third year of program), a student must have earned all the credits of the first year and 75% credits of the second year. Similarly for registration of the seventh semester courses (i.e. Fourth year of program), a student must have earned all the credits of the second year and 75% credits of the third year. However, if 75% calculation turns out to be a mixed number (integer + fraction) then only the integer part of that number shall be considered for taking decision related with this clause.

4.1.6. A student registered in odd semester shall be eligible to register for the courses offered in the even semester of that year irrespective of his/her SPI or the number of credits earned by him/her in that odd semester.

4.2. Direct Second Year Entry:

Post diploma students can have direct second year entry at third semester of the program. Such admissions are governed by the rules of DTE, Mumbai. Such students shall undergo all academic requirements as specified by the Academic Council.

For such students there shall not be First Year Performance Index (FYPI). Semester Performance Index (SPI) and Cumulative Performance Index (CPI) shall be calculated from the third semester onwards taking into consideration the courses undergone by them at Annasaheb Dange College of Engineering & Technology, Ashta . (Refer Sec. 12 for definitions and calculations of these performance indices).

5. CHANGE OF BRANCH:

Students shall be eligible to apply for Change of Branch after completing the first two semesters. The following rules/ guidelines shall be used for considering their applications for change:

5.1. The change of branch shall be permitted strictly on merit basis subject to the rules of admissions prescribed by DTE, Mumbai from time to time.

5.2. The request for change of branch by a student from branch A to branch B shall be considered if number of students of branch B does not exceed the sanctioned capacity of branch B.

5.3. Students applying for change of branch need to complete and clear bridge courses recommended by Board of Studies and requirement of that program.

5.4. All such transfers can be effected only once at the beginning of the second academic year of the four year UG program. No application for change of branch during subsequent academic years shall be entertained.

5.5. The candidates who have sought admission under Supernumerary seats like Tuition Fee Waiver Scheme, GOI, and J & K quota are not eligible for the branch change.

6. FACILITATION OF THE STUDENT

6.1. Faculty Counselor

After joining the institute, a student or a group of students shall be assigned to a faculty member who shall act as a mentor . A student shall be expected to consult the faculty advisor on any matter relating to his/her academic performance and the courses he/she may take in various semesters.

A mentor shall be the person to whom the parents/guardians may contact for performance related issues of their ward. The role of a mentor is as outlined below:

- Guidance about the rules and regulations governing the courses of study for a particular degree.
- Paying special attention to weak students.
- Guidance and liaison with parents of students for their performances.

6.2. Helping Academically Weaker Students

A student with backlog/s should continuously seek help from his/her faculty counselor, Head of the Department and the Dean Staff and Students affairs. Additionally he/she must also be in constant touch with his/her parents/local guardians for keeping them informed about academic performance. The institute also shall communicate to the parents/guardians of such student at-least once during each

semester regarding his/her performance in ISE I, MSE and ISE II also about his/her attendance. It shall be expected that the parents/guardians too keep constant touch with the concerned faculty counselor or Head of the Department, and if necessary - the Dean Staff and Students affairs.

7. CONDUCT AND DISCIPLINE

7.1. All students shall be required to conduct themselves in a manner befitting the students of a institution of high reputation, within and outside the precincts of the College.

7.2. Unsocial activities like ragging in any form shall not be permitted within or outside the precincts of the College and the students found indulging in them shall be dealt with severely and dismissed from the College.

7.3. The following additional acts of omission and/or commission by the students within or outside the precincts of the College shall constitute gross violation of code of conduct punishable as indiscipline:

- Lack of courtesy and decorum, as well as indecent behaviour;
- Willful damage of property of the College/Hostel or of fellow students;
- Possession/consumption/distribution of alcoholic drinks and banned drugs;
- Mutilation or unauthorized possession of library material, like. books;
- Noisy and unseemly behaviour, disturbing peace in the College/Hostel;
- Hacking in computer systems, either hardware or software or both;

Any other act considered by the College as of gross indiscipline.

7.4. In each case above, the punishment shall be based on the gravity of offence, covering from reprimand, levy of fine, expulsion from Hostel, debar from examination, rustication for a period, to outright expulsion.

7.5. The reprimanding Authority for an offence committed by students in the Hostels and in the Department or the classroom shall be respectively, the Rector of the Hostels and the Head of the concerned Department.

7.6. In all the cases of offence committed by students in jurisdictions outside the purview of Clause the Dean Staff and Students Affairs shall be the Authority to reprimand them.

7.7. All major acts of indiscipline involving punishment other than mere reprimand, shall be considered and decided by the Chairman, Students Disciplinary Committee appointed by the Principal.

7.8. All other cases of indiscipline of students, like adoption of unfair means in the examinations shall be reported to the Dean Academic, for taking appropriate action and deciding on the punishment to be levied.

7.9. In all the cases of punishment levied on the students for any offence committed, the aggrieved party shall have the right to appeal to the Principal, who shall constitute appropriate Committees to review the case.

8. ACADEMIC CALENDAR:

The academic activities of the institute are regulated by Academic Calendar and are made available to the students/ faculty members and all other stakeholders in soft or hard copy. It shall be mandatory for students / faculty to strictly adhere to the academic calendar for completion of academic activities.

9. ATTENDANCE:

9.1. Regular 100% attendance is expected of all students for every registered course in lectures, tutorials, laboratory, seminar, mini-project and project. Hence attendance is compulsory and shall be monitored in the semester rigorously. Students shall be informed at the end of every month if they are falling short of attendance requirement.

9.2. A maximum of 25% absence for the attendance may be permitted only on valid grounds such as illness, death in family or other emergency reason which is beyond control of a student

9.3. The maximum number of days of absence for students participating in Co-curricular activities /Sports/ Cultural events during a semester shall not exceed 10. Any waiver in this context shall be on the approval Students Grievance Committee only after the recommendation by Dean staff and students affairs.

9.4. A DAC Chairman shall report and recommend to Dean Academics the cases of less than 75% attendance after rigorously analyzing.

The action on such cases is as follows:

1. Students having less than 75% attendance in one course, he/she shall be eligible for 100% examination.

2. Students having less than 75% attendance in two or more courses, he/she shall be detained for that semester and are eligible for re-registration as per sec. 11.4.

10. MODES OF ASSESSMENT:

10.1. Assessment of Theory Courses:

10.1.1. A student shall be evaluated for his/her academic performance in a theory course through In-Semester Evaluation-I (ISE I), Mid Semester Examination (MSE), In-Semester Evaluation-II (ISE II) and End Semester Examination (ESE).

10.1.2. The weightage for the theory courses having ESE shall be as shown in the table.

Table-6: Weightage for Theory courses with ESE

ISE I	MSE	ISE II	ESE
10	30	10	50

The details of the weightage of each course shall be listed in the structures of each program.

10.1.3. ISE shall be based on student's performance during in-class graded activities. The mode of ISE shall be decided and announced by the course coordinator at the beginning of the course.

10.1.4. MSE shall be of 50 marks and 2 hours duration for each course (converted to 30 marks) and shall be held as per the schedule declared in the Academic calendar for that Semester. The detailed time table for this shall be declared one week in advance of the commencement of MSE. MSE shall usually be based on first three units, conducted by CoE.

10.1.5. ESE for every theory credit course shall be of 100 marks (converted to 50 marks) and of three hours duration for each course and shall be held as per the schedule declared in the academic calendar for that semester. A minimum score of 40% in ESE and 40 % of total shall be required to get passing grade of theory course. If a student fails to achieve a minimum score of 40 %, then he/she will be eligible for re-examination, with one grade penalty.

The detailed time table for this shall be declared two weeks in advance of the commencement of ESE. The examination shall be based on entire syllabus of the respective course. The Weightage shall be 30% for the syllabus covered for MSE and 70% for the remaining syllabus after MSE.

10.1.6. There shall not be any kind of re-examination for ISE-I, MSE and ISE-II.

10.1.7. A student remains absent for ESE courses due to any reason, he/she shall be awarded a temporary grade "II". Then he/she will be eligible for re-examination, but he/she should suffer one grade penalty. If the student remains absent even for re-examination, he/she shall be awarded a grade "II".

10.1.8. A student remaining absent for MSE of non-ESE courses due to any reason, shall make-up there internal as per direction of DAC with approval of Dean Academics/Director.

10.1.9. To design graded activities for in-semester examination, faculty have flexibility to adopt any activity based pattern; however it should cover fundamentals, applications and wide range of syllabus taught. Also, faculty shall follow guidelines provided time to time by institute examination committee.

10.2. Assessment of Laboratory Courses:

10.2.1. The assessment of laboratory course for First year shall be based on continuous assessment. There shall be no ESE for laboratory courses for First Year and assessment of a student shall be based on ISE only.

10.2.2. ESE shall be based on performing an experiment followed by each oral-examination.

A minimum performance of 40% in both ISE and ESE separately shall be required to get the passing grade.

10.2.3. ESE for laboratory course shall normally be held after the ESE for theory courses and shall be conducted by a panel of external and internal examiners approved by BoS. This activity shall be coordinated by Department Examination Coordinator (DEC) in consultation with HoD of the respective department as per the guideline of CoE office.

10.2.4. A student failed in ESE of a laboratory course in a regular semester shall be eligible to appear for 50% examination conducted along with ESEs of laboratory courses in next semester. Such examination shall be fairly comprehensive (POE i.e. Practical-Oral-Examinations) to properly judge his/her practical skill and theoretical knowledge for that laboratory course. In such case ISE performance of a student shall not be wiped out. He/ she suffer a grade penalty.

10.3. Courses of Special Nature: Assessment of Seminar, Mini-project, Project etc:

10.3.1. The student shall register for this course only once during the programme, with the prior approval of the Head of the Department/ Programme coordinator.

10.3.2. Not more than three students may carry out the major project together. The batch formation and allotment of guide shall be carried out by concerned departmental coordinator.

10.3.3. Every student has to undertake seminar, mini-project, project of professional nature and interest at various levels of study. The topic of seminar or work related with mini-project/project may be related to theoretical analysis, an experimental investigation, a prototype design, new concept, analysis of data, fabrication and setup of new equipment etc. The student shall be evaluated for his/her seminar or mini project/ project through the quality of work carried out, the novelty in the concept, the report submitted

and presentation(s) etc.

10.3.4. The Seminar/Project report must be submitted within the prescribed date usually two weeks before the end of academic session of the semester. It is desirable that the topics for seminar/project be assigned by the end of previous semester.

10.3.5. The seminar report and the presentation of seminar shall be evaluated by three departmental faculty members (decided by DAC).

10.3.6. The mini-project shall be evaluated jointly by External and Internal Examiners.

11. THE GRADING SYSTEM:

11.1. Award of Grade for Regular Semester:

11.1.1. For every course registered by a student in a semester, he/she shall be assigned a grade based on his/her combined performance in all components of evaluation scheme of a course as per the structure. The grade indicates an assessment of the student's performance and shall be associated with equivalent number called a grade point.

11.1.2. The academic performance of a student shall be graded on a ten point scale as shown in table 7.

Table -7: Grade Table for Regular Semester

Letter Grade	Grade Point	Description of Performance
AA	10	Excellent
AB	9	Very Good
BB	8	Good
BC	7	Fair
CC	6	Above Average
CD	5	Average
DD	4	Below Average
FF	0	Fail
XX	0	Detained, Re-register for course
II	---	Incomplete Assesment
PP	---	Passed (Audit Course)
NP	---	Not Passed (Audit Course)

11.1.3. The combined performance mentioned in Sec. 11.1.1. generally refers to performance in (as per the structures of the respective course).

- ISE I, MSE, ISE II and ESE in theory courses.
- ISE and ESE for laboratory courses.

11.1.4. A student shall pass the regular course if he/she gets any grade in the range "AA" to "DD".

11.1.5. "FF" grade shall be awarded to a student in a course if he/she gets less than 40% marks jointly in the ISE I, MSE, ISE II and ESE for a theory course and in ISE and ESE for a laboratory course. A student failed in theory course shall then be eligible to apply for re-examination. A student failed in laboratory course shall be eligible to apply for 50% examination conducted with the laboratory examinations of the subsequent semester. In both cases, a student has to suffer a grade penalty.

11.1.6. Grade "XX" in a regular course shall be given to a student if he/she does not maintain the minimum 75% attendance in any of the theory or laboratory courses.

The list of students of "XX" grade shall be declared one week before ESE and intimated to the Dean Academics and CoE. Such a student shall not be permitted to take the ESE of that course.

When a student gets "XX" grade in a course, then this shall be treated as "FF" for the purpose of calculation of Semester Performance Index (SPI) and First Year Performance Index (FYPI) or Cumulative Performance Index (CPI). Refer Sec. 12 for calculation of Performance Indices.

Following rules apply to the student who has obtained grade "XX" in a regular semester:

- A student obtaining grade "XX" in only one course in a regular semester shall be allowed to appear for 100% examination conducted at the end of each academic year. Such student shall suffer two grade penalties.
- A student obtaining grade "XX" in two or more than two courses in a regular semester shall be detained for that semester and shall not be allowed to appear for any of the ESEs of that semester. His/her ISE I, MSE and ISE II evaluations for all courses shall be treated as null and void. He/She needs to re-register for all courses of that semester in the next academic year.

11.1.7. Grade "II" shall be declared in a theory/laboratory course if a student has satisfactory in-semester performance and has fulfilled the 75% attendance requirement, but has not appeared for ESE. Such students shall be eligible for the Re-examination of ESE only. The application form with requisite amount of fees must be submitted to the office before the last date. These examinations shall be based on entire syllabus and shall be scheduled before the commencement of the semester for theory courses and next semester for laboratory courses.

Thus "II" is only a temporary grade and shall be replaced by a valid grade only after Re- examination.

11.1.8. As mentioned in Sec. 3.10., there shall be a few audit courses as per the policies of the institute or as decided by DAC of respective program. The grade "PP" (Passed)/ "NP" (Not Passed) shall be awarded for such courses depending upon the performance of a student evaluated by the faculty in-charge. No grade points shall be associated with these grades and performance in these courses shall not be taken into account in the calculation of the performance indices (SPI, CPI). However, the award of the degree shall be subject to obtaining a "PP" grade in all such courses.

11.2. Awards of Grades for Re-Examination

11.2.1. A student who has obtained grade "FF" or "II" in regular semester shall be eligible to appear for re-examination conducted before the commencement of the next regular semester.

11.2.2. In such cases ISE I, MSE and ISE II performance of a student shall not be wiped out.

11.2.3. A student who is eligible for re-examination, but remains absent for re-examination shall be given grade "II".

11.2.4. A student shall be awarded a grade between "AB" to "DD", or "FF" as given in Table-8 depending upon the cumulative marks obtained by him/her in ISE I, MSE and ISE II and Re-examination of ESE. Here a student has to suffer a grade penalty by accepting one grade lower as compared with the regular grades.

Table-8: Grade Table for Re-examination/Re-registration

Letter Grade	Grade Point
AB	9
BB	8
BC	7
CC	6
CD	5
DD	4
FF	0
XX	0

11.3. Award of Grade for 100% Examination

A student shall be eligible to apply for 100% examination, if he/she obtains

- "FF" grade in regular semester and has not availed re-examination option.

- "FF" grade in re-examination.
- "II" grade in ESE and re-examination.
- "XX" grade in a course in regular semester.

11.3.1. In all above cases the earlier performance of a student in the course shall be treated as null and void.

11.3.2. A student shall suffer two grade penalties as per Table 9.

Table-9: Grade Table for 100% Examination

Letter Grade	Grade Point
BB	8
BC	7
CC	6
CD	5
DD	4
FF	0
XX	0

11.4. Re-Registration

11.4.1. A DAC Chairman shall report and recommend to Dean Academics the cases of less than 75% attendance after rigorously analyzing.

The action on such cases is as follows:

- Students having less than 75% attendance in one course, he/she shall be eligible for 100% examination.
- Students having less than 75% attendance in two or more courses, he/she shall be detained for that semester and are eligible for re-registration as per sec. 11.4.

11.4.2. A student detained in odd semester, he/she shall be allowed to continue in subsequent even semester. He/she shall re-register to the detained semester of subsequent academic year. A student detained in even semester, he/she shall re-register for even semester of subsequent academic year.

In both above cases students shall loose one academic year and he/she shall pay semester fee.

11.4.3. Registration for ATKT and non-eligible students (Year down):

A student having ATKT and non-eligible student (Year down) shall apply for 100% examination in each year at the end of the academic year. In above case the earlier performance of a student shall be treated as null and void. He/she shall suffer two grade penalties.

11.5. Statistical Method (Relative Grading) for the Award of Grades

For the award of grades in a course, all component-wise evaluation shall be done in marks. The marks of ISE I, MSE, ISE II and ESE for a theory course and ISE and ESE for a laboratory course would be reduced to relative weightage. Marks so obtained would be converted to grades by following the guidelines

Award of Grades

M: Marks obtained out of 100 for a course

K1: Average marks for first top 10% students of a course. If average marks of first top10% students are less than 80 marks, then K_1 is the highest mark for student in a course.

K7=40;

C= abs (K1-K7)/6; K2= (K1-C); K3=K2-C; K4=K3-C; K5=K4-C; K6=K5-C.

Table-10: Grade Table for Regular Semester

Letter Grade	Statistical Method (Relative Grading) Formula	Grade Point	Description of performance
AA	$M \geq K1$	10	Excellent
AB	$K1 > M \geq K2$	9	Very Good
BB	$K2 > M \geq K3$	8	Good
BC	$K3 > M \geq K4$	7	Fair
CC	$K4 > M \geq K5$	6	Above Average
CD	$K5 > M \geq K6$	5	Average
DD	$K6 > M \geq K7$	4	Below Average
FF	$M < K_7$	0	Fail

12. CALCULATION OF PERFORMANCE INDICES:

The performance indices viz. Semester Performance Index (SPI), First Year Performance Index (FYPI), Cumulative Performance Index (CPI) represent the performance of a student in a semester (SPI), cumulated for two semesters of first year (FYPI) and cumulated over all semesters from the third semester onwards till current semester (CPI) on a scale of 10.

12.1. Semester Performance Index (SPI):

12.1.1. The performance of a student in a semester shall be indicated by a number called SPI.

12.1.2. SPI shall be the weighted average of the grade points obtained in all the courses registered by the student during a semester.

12.1.3. If Gi shall be a grade with numerical equivalent as gi obtained by a student for the course with credits Ci then, SPI for that semester is calculated using formula.

$$SPI = \frac{\sum_i Ci\ gi}{\sum_i Ci}$$

where summation is for all the courses registered by a student in that semester. Calculated SPI is rounded off to two decimal places.

12.1.4. SPI shall get affected because of the grades "XX" and "FF" obtained by the student in any of the courses.

12.1.5. For the students acquiring "II" grade (which is only a temporary grade) in any of the courses, SPI, CPI shall be calculated only after 100% examination.

12.1.6. SPI once calculated shall never be modified.

12.2. First Year Performance Index (FYPI):

12.2.1. For a student registered in autonomous ADCET right from the First semester, First-Year-Performance-Index (FYPI) shall be calculated as weighted average of the grade points obtained in all the courses registered by him/her in semesters I and II only.

$$FYPI = \frac{\sum_i Ci\ gi}{\sum_i Ci}$$

where summation is for all the courses registered by a student in first two semesters. FYPI shall be arrived when SPI for the second semester is calculated. FYPI shall be rounded off to two decimal places.

12.2.2. FYPI shall reflect all the courses undergone by a student in the first year including the courses in which he/she has failed. FYPI may get modified in the subsequent semesters whenever a student clears his/her first year backlog courses.

12.2.3. If a student has been awarded "II" grade in the regular semester course of the first year then, FYPI shall be calculated after 100% examination.

12.2.4. If a student has obtained grade "FF" or "XX" at any time in any of the courses registered by him, then zero grade points corresponding to these grades shall be taken into consideration for calculation of FYPI.

12.2.5. If a student has a backlog of first year, then his/her FYPI shall be recalculated only after he/she clears his/her backlog.

12.3. Cumulative Performance Index (CPI):

12.3.1. An up-to-date assessment of the overall performance of a student for the courses from the first semester onwards till completion of the program shall be obtained by calculating an index called Cumulative Performance Index (CPI).

12.3.2. CPI is the weighted average of the grade points obtained in all the courses registered by a student since the beginning of the first semester of the program.

$$CPI = \frac{\sum_i Ci\ gi}{\sum_i Ci}$$

where summation is for all the courses registered by a student from first semester till that semester. CPI shall also be calculated at the end of every semester from the first semester onwards and shall be rounded off to two decimal places.

12.3.3. CPI shall reflect all courses undergone by a student including courses in which he/she has failed. Thus, similar to SPI, "FF" and "XX" grade shall also affect the CPI of a student.

12.3.4. If a student is awarded with a pass-grade for a course in which he/she was awarded previously "FF" or "XX" grade then, CPI shall be calculated by replacing corresponding Ci and gi in both numerator and denominator of the above formula. Thus a course shall be included only once in CPI calculation. The latest performance of a student in a course shall be considered for CPI.

12.4. Amendment of Results Due to Errors

In case it is found that the result of an examination has been affected by errors, the CoE shall amend such result in such a manner as shall be in accordance with true position and make such declaration as is necessary. A report listing such amendments shall be submitted by the COE to Director. The amended results shall be endorsed by Director before its declaration. The error means i) error in computer / data entry, printing or programming ii) clerical error, manual / machine error, in totaling or entering marks on ledger register iii) error due to negligence or over sight of examiner or any other person connected with evaluation, moderation and result tabulation.

13. SUPPLYING PHOTOCOPY OF THE EVALUATED END SEMESTER ANSWER PAPER, RE-EVALUATION, AND PERIOD OF RETENTION:

13.1. All the evaluated answer scripts of ISE I and ISE II in a subject shall be returned to the students from time to time during the semester. However, the answer scripts of MSE and ESE shall be shown to the students during the specified period after the evaluation.

13.2. Evaluated answer papers should be preserved by the office of CoE for a period of minimum six months after examination.

14. ACADEMIC PROGRESS RULES (ATKT RULES):

14.1. A student shall be allowed to register for the courses of the next year's odd semester (From third semester onwards) only if he/she has earned all the credits of the previous year and has earned at least 75% credits of the current year. If 75% calculation turns out to be a mixed number (integer + fraction) then only the integer part of that number shall be considered for deciding the eligibility for ATKT.

(For example, for registration of the fifth semester courses (i.e. Third year of program), a student must have earned all the credits of the first year and 75% credits of the second year. Similarly for registration of the seventh semester courses (i.e. Fourth year of program), a student must have earned all the credits of the second year and 75% credits of the third year.)

14.2. The maximum duration for getting B. Tech. degree for students admitted in the first semester of U.G. program shall be 16 semesters (Eight academic years) while for direct second year students admitted in the third semester shall be 12 semesters (Six academic years) from their date of admission. The maximum duration of the program includes the period of withdrawal, absence and different kinds of leaves permissible to a student but excludes the period of rustication of a student from the institute.

However, genuine cases on confirmation of valid reasons may be referred to Academic Council for extending this limit by additional one year.

14.3. If a student is unable to gain all credits of first year in three years from the date of his/her admission, then he/she shall be declared as "Not Fit for Engineering" leading to discontinuation of his/her registration with the institute.

14.4. Depending upon the academic progress of a student, Academic Council may take a decision regarding continuation or discontinuation of his/her registration with the institute.

15. GRACE MARKS:

The student is eligible for maximum 4 grace marks in each semester if he/she fulfills following conditions,

15.1. With the grace marks student will able to get "DD" grade in all courses of that semester.

15.2. The grace marks should be allotted to maximum two courses to get "DD" grade.

15.3. He / She is eligible to get maximum FOUR marks either in Total Marks [100 Marks] (ISE + MSE + ESE) or TWO Marks in ESE [50 Marks] to clear the 40 % eligibility in a particular case whenever it is required.

16. SEMESTER GRADE REPORT:

16.1. Semester grade report reflects the performance of a student in that semester (SPI) and also his/her cumulative performance for the first year (FYPI) and also the cumulative performance since the first semester of his/her study (CPI). In the case of lateral entry students, the cumulative performance since the third semester (CPI), his/her FYPI is null in this case.

16.2. The semester grade card issued at the end of each semester to each student shall contain the following.

- The credits for each course registered for that semester.
- Any audit course/s undertaken by a student in a semester.
- The letter grade obtained in each course.
- The total number of credits earned by a student since the first semester onwards.
- SPI, FYPI and CPI
- A list of backlog courses, if any.
- Remarks regarding eligibility of registration for the next semester.

16.3. Semester grade card shall not indicate class or division or rank, however a conversion from grade point index to percentage may be calculated from % = (CPI - 0.75)*10 based on CPI shall be indicated on the final grade card of the program.

17. AWARD OF DEGREE:

Following rules prevail for the award of degree.

17.1. A student has registered and passed all the prescribed courses under the general institutional and departmental requirements.

17.2. A student has obtained CPI ≥ 5.

17.3. Institute authorities shall recommend the award of B. Tech degree to a student who is declared to be eligible and qualified in the above norms. However the final degree shall be conferred by Shivaji University, Kolhapur.

18. CPI IMPROVEMENT POLICY FOR AWARD OF DEGREE:

An opportunity shall be given to a student who has earned all the credits required by the respective program with CPI greater than or equal to 4.75 but less than 5 (Refer Section 17.2), to improve his/her grade by allowing him/her to appear for 100% examinations for maximum two theory courses of seventh and eighth semester. However, CPI shall be limited to 5 even though the performance of a student as calculated through modified CPI becomes greater than 5.

19. CONCLUSIONS:

The academic policies regarding conduct of U.G. programs in autonomous Annasaheb Dange College of Engineering & Technology, Ashta are published in this document. The Academic Council shall reserve the right to modify these policies as and when required from the point of view of achieving academic excellence. In special cases (i.e. the cases not covered through above rules) the decision of Director (Chairman, Academic Council) shall be final and binding on all concerned. For the latest updated version, stake holders are requested to visit http://adcet.in.

Director
ADCET, Ashta

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