

Academic Regulations for Bachelor of Engineering (B.E)

2020-21

w.e.f 2018-19 Academic Year



Dr. Ambedkar Institute of Technology, Bangalore

(An Autonomous Institution, Affiliated to Visvesvaraya Technological University, Belagavi, Aided by Govt. of Karnataka, Approved by All India Council for Technical Education (AICTE), New Delhi)
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Dr. Ambedkar Institute of Technology

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1. Short Title and Commencement:

1.1 The regulations given below shall be common for all programmes offered by the college and are amended based on the Guidelines for Implementation of Academic Autonomy at Colleges (Amended-2018) by Visvesvaraya Technological University, Belagavi. These regulations shall be effective from academic year 2018-19.

1.2 The regulations shall come into effect from the date of notification by the College after their amendments made by the Academic Council with the approval by the Governing Body of the Institution.

2. Definitions:

(a) “Academic Autonomy” means freedom granted by the University to a College in all aspects of conducting its academic programmes for promoting excellence.

(b) “Autonomous College” means a College notified as an *autonomous college* by the University as per the VTU Statutes on Autonomous Colleges (Amended) 2011 and further amended from time to time as per UGC Regulations/Guidelines.

(c) “Commission” means University Grants Commission.

(d) “Council” means All India Council for Technical Education.

(e) “Statutes” Means VTU Statutes on Autonomous Colleges (Amended) 2011 and further amended from time to time.

(f) “University” means Visvesvaraya Technological University.

(g) “Institute” means Dr. Ambedkar Institute of Technology (Dr. AIT), Bengaluru

(h) “Program” means Under Graduate / Post Graduate degree program

(i) “Course” means a subject either theory or practical identified by its title and code number.

(j) “Teacher” means the teaching staff of the college appointed by following the specified rules of the University, and /or of the council.

3. Preamble:

As per the Statutes, a number of Engineering Colleges have been granted the autonomous status. There is a need to derive full benefits of the academic autonomy accorded to the college towards addressing the 21st century challenges faced by the technical education system in the country, like:

- Ever increasing influence of science and technology and their impact on human society.
- Shrinking time scale of new developments and the high rate of obsolescence in the older practices.
- Penetration of Information Technology in all sectors of human activity and economic Development.

- Service sector becoming a major avenue for employment of technical professionals and also for economic gains.
- Emergence of **knowledge** as a key driver for the progress of nations and for increasing their influence on the world scenario.

As engineers have to convert these challenges into opportunities, it is expected that the 21st century engineers will be required to have:

- Strong foundation in the basics of mathematics, science and engineering discipline.
- Command over the chosen area of technical specialization.
- Capacity to apply the professional knowledge and skills acquired.
- Good competence to learn a subject on one's own without major external help.
- Expertise in analysis, design, modeling and simulation of complex systems.
- Scaling up, mass production, system operation and maintenance.
- Estimation of costs and time factors in an assignment.
- Ability for rational, logical, orderly and objective thinking.
- Skills in personnel management and human relations, and
- Leadership qualities including spirit of tolerance, patience and team work.

Therefore, college make full use of the academic freedom given to it by the University:

- With responsibility and accountability
- Use the available opportunity to demonstrate its capabilities and innovative skills, to become visible in the higher education system and,
- Gaining the confidence, gratitude and respect of all its stake holders, especially students, alumni, parents and the society at large.

These are particularly important for each Autonomous College as well as the University to be able to maintain and enhance their respective reputation, image and visibility in the technical education system as a whole.

4. Academic Programmes:

4.1 General:

(a) Autonomy granted to the College is institutional in nature and hence the Academic Autonomy is applicable for all programmes offered by the college i.e. B.E at Undergraduate (UG), M. Tech., M.B.A and M.C.A programmes at Postgraduate (PG), M.Sc. (Engineering by research) and the Ph.D programme. In all cases, the programmes shall fulfil the minimum academic quality and standards for the award of Degrees prescribed by the University, the Council and the Commission.

(b) The academic Autonomy provides an opportunity to the college to make schemes of instruction, syllabi, scheme of examinations and other aspects, with approval of its Academic Council, while fulfilling the minimum academic standards of the University for the Award of Degrees.

(c) An Autonomous college shall have the freedom to start Diploma (post- polytechnic Diploma, post-UG and post-PG levels) and/or Certificate programmes with the approval of its Academic Council. The issuance of certificates/diplomas on completion of such programmes shall be made under the seal of the concerned College only.

(d) An Autonomous College shall also be free to evolve methods for assessing the students' performance, notifying the results, issuing the grade cards/transcripts, migration and other certificates except the Degree Certificates.

(e) In order to get the various benefits of academic autonomy, the College structures its various academic programmes based on the Semester Scheme by introducing Credits for academic activities, bringing Examination Reforms for better achievement testing, awarding Letter Grades and Numerical Grade Points/ Averages for students' performance and setting appropriate Passing Standards as covered later in these Regulations.

(f) Following the guidelines recommended by the University, with respect to the Semester Scheme, Credit System, Examinations, Letter Grades and Numerical Grade Points/Averages, enables the students to avail of horizontal/ vertical mobility and transfer of credits from one Autonomous College to another and related benefits of academic autonomy.

4.2 Nomenclatures of Programmes:

(a) The College uses the nomenclature for their Degree programmes as specified by the Commission, and the Degree Certificates issued by the University to their awardees bears the name of the College as well. This helps in maintaining the identity of each programme conducted at the College and also ensuring its accountability.

(b) Therefore, the nomenclatures and their abbreviations given below, shall continue to be used for the Degree programmes offered by the College under the University:

(i) **UG Level:** Bachelor of Engineering (B.E).

(ii) **PG Level:** Master of Technology (M. Tech.),
Master of Business Administration (M.B.A.)
Master of Computer Applications (M.C.A.).

(iii) **Research Level:** M.Sc. (Engineering) by Research
Doctor of Philosophy (Ph.D.).

Besides, the branch, the subject of specialization, if any, shall be indicated in brackets after the abbreviation; e.g., B.E. (Mechanical Engineering), M.Tech. (Machine Design).

4.3. Programmes Offered at Dr. AIT:

The details of UG, PG and Research programmes offered at the college is given in Table 1, 2 and 3 respectively.

Table 1: Under Graduate (UG) - B.E Programmes

Sl. No	Title of the B.E Programme	Abbreviation	Year of Establishment
1	Civil Engineering	CV	1980
2	Mechanical Engineering	ME	1980
3	Electrical and Electronics Engineering	EE	1980
4	Electronics and Communication Engineering	EC	1982
5	Industrial Engineering and Management	IM	1984
6	Electronics and Instrumentation Engineering	EI	1985
7	Computer Science and Engineering	CS	1987
8	Electronics & Telecommunication Engineering	TE	1991
9	Information Science and Engineering	IS	1993
10	Medical Electronics Engineering	ML	1999
11	Aeronautical Engineering	AE	2020

Table 2. Post-Graduation (PG) Programmes

Sl. No	Title of the PG Programme	Abbreviation	Year of Establishment
1	Master of Computer Application	MCA	1999
2	Master of Business Administration	MBA	2001
3	M.Tech. in Computer Science & Engg.	SCS	2002
4	M. Tech in VLSI Design & Embedded System	LVS	2004
5	M. Tech. in Power Electronics	EPE	2010
6	M. Tech. in Digital Communication & Networking	LDN	2010
7	M. Tech. in Structural Engineering	CSE	2011
8	M. Tech. in Computer Networking	SCN	2013
9	M. Tech. in Machine Design	MMD	2013
10	M. Tech. in Cyber Forensic & Information Security	SCF	2018

Table 3. Research Programmes -M. Sc Engg (By Research)/Ph.D

Sl. No	Title of the Research Programmes	Year of Establishment
1	Civil Engineering	2003
2	Mechanical Engineering	2001
3	Electrical and Electronics Engineering	2008
4	Electronics and Communication Engineering	2008
5	Industrial Engineering and Management	2012
6	Electronics and Instrumentation Engineering	2008
7	Computer Science and Engineering	2012
8	Electronics & Telecommunication Engineering	2010
9	Information Science and Engineering	2012
10	Medical Electronics Engineering	2014
11	Physics	2007
12	Chemistry	2005
13	Mathematics	2003
14	MBA	2010

15	MCA	2011
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4.4. Programme Duration

(a) The normal duration of fulltime academic programme is the same as that followed by the University, i.e., four years for B.E degree Program (Fulltime), three years for B.E program under lateral entry to second year, two years for M.Tech., and M.B.A., two years for M.C.A., two years for M.Sc. (Engg.by Research), three years for Ph.D, for full time candidates, four years for part time candidates. One year for Diploma and six months for Certificate programmes.

b) As a flexible credit system is followed for coursework, it is to be noted that the programme duration in the case of UG and PG shall also be dictated by the period in which a student earns the prescribed credits for the award of Degree. Hence, it is possible for an outstanding student to earn the required credits in a shorter time than that ordinarily prescribed for the relevant programme in (a) above.

(c) In such cases, the College provides opportunity for such a student to register for Add-On courses being conducted at the College or to take up suitable internship until completion of the prescribed programme duration.

(d) The maximum period which a student can take to complete a fulltime academic programme shall be the same as that prescribed by the University from time to time; e.g., double the normal duration of the programme, i.e., eight years for B.E. in case of fulltime Program and six years in case of the B.E. Program under lateral entry to second year, four years for M. Tech., M.B.A., four years for M.C.A., four years for M.Sc.(Engineering by Research), six years for Ph.D, two years for Diploma and one year for Certificate programme.

(e) Besides, the maximum period for a programme shall also be dictated by the fact that a student has to demonstrate the specified minimum academic performance by registering for the prescribed minimum number of credits in every semester for continuing with the programme. And, this period can be equal to or smaller than the maximum period indicated as in (d) above.

4.5. Admission of Students:

(a)Admissions: The admission of students to various UG, PG and Research Degree programmes listed under Section 4.3, is governed by the State Government and/or the University Policies/Practices in this regard. In particular, the admission of students for Research Degree programmes at the College shall be made by the University by associating the College concerned in the process as per the provisions in the VTU regulations governing the Degree of Ph.D., June 2017. However, the admission of students to Diploma and Certificate programmes shall be made by the College on its own, by following the Regulations approved by its Academic Council. In all the cases, it shall be necessary to follow the statutory provisions of reservation of seats to different categories of candidates from time to time.

(b) Lateral Entry: There is a provision for candidates with a polytechnic Diploma or any other qualification approved by the Council and the Commission to join UG Degree programmes at the beginning of the second year of the 4-year programme as per the prevailing practice in the University and as per the prevailing practice in the University.

(c) **Change of Branch / Specialisation / College:** The students can opt to migrate from one branch or specialization to another branch or specialization at the same College or at another Autonomous/ Affiliated/ Constituent College under the University at the beginning of the second year. In these cases, the Colleges follows the Rules and Regulations of the University/Council.

(d) **Eligibility Criteria:** The eligibility criteria for admission of students to UG, PG and **Research** Degree programmes at the College shall be the same as those prescribed by the University. But, the minimum requirements for admission to Diploma programmes shall be the Post Polytechnic Diploma or equivalent qualification or the B.E. or equivalent Degree. The equivalence or its method of determination shall be as notified by the University from time to time. However, the College is free to prescribe appropriate criteria for admission to Certificate programmes after receiving approval from its Academic Council.

4.6. Semester Scheme:

a) Semester Scheme: This provides several benefits to technical education programmes in contrast to the Annual Scheme. Therefore, the College adopts the Semester Scheme for its UG, PG and Research programmes.

b) **Academic Calendar:** There is uniformity in the functioning of the Semester Scheme for all academic programmes across the College, as this can provide good academic flexibility to their stake holders, particularly the students and the faculty members. For this purpose, each academic year is divided into semesters, with the calendar, durations and academic activities being fixed in advance by the college while maintaining a common opening /reopening date for the odd semester.

c) Academic year Breakdown: This is for implementing the Semester Scheme is given in Table 4 as a typical example, consisting of two regular semesters and a summer semester in an academic year.

Table 4: Typical Schedule of Academic Year

Sl. No	Activity	Description											
1	Number of Semesters/Year	Three; Two regular semesters (Odd & Even) and one Summer Semester. (Note: Summer Semester is primarily to assist the slow learners and/or repeater students for repeating the courses. However, the College uses this Semester to arrange Add-On Courses for other students and/or for deputing them for field work and/or internship).											
2	Semester Durations (Weeks)	Main Semesters (<i>Odd/Even</i>): 19 weeks each. Summer Semester: 8 weeks											
3	Academic Activities (Weeks)	<table border="1"> <thead> <tr> <th rowspan="2">Particulars</th> <th colspan="2">Duration (weeks)</th> </tr> <tr> <th>Main Semester (Odd /Even)</th> <th>Summer</th> </tr> </thead> <tbody> <tr> <td>Registration of courses</td> <td>0.5 week</td> <td>0.1weeks</td> </tr> <tr> <td>Course Work</td> <td>15.5 weeks</td> <td>7.0</td> </tr> </tbody> </table>	Particulars	Duration (weeks)		Main Semester (Odd /Even)	Summer	Registration of courses	0.5 week	0.1weeks	Course Work	15.5 weeks	7.0
Particulars	Duration (weeks)												
	Main Semester (Odd /Even)	Summer											
Registration of courses	0.5 week	0.1weeks											
Course Work	15.5 weeks	7.0											

				weeks
		Examination Preparation	1.0 week	0.2 week
		Semester End Examinations	1.0 week	0.2 week
		Declaration of results	1.0 week	0.5 week
		Total Duration of odd semester	19.0weeks	8.0weeks
		Makeup Examination and Recess	2weeks	--
		Total Duration of Even Semester	19.0	--
		Makeup Examination and Recess	02.0	02.0
		Total Duration of Semesters	42.0	10.0
		Total Duration of one academic year		52 weeks
4	Examinations	Continuous Internal Evaluation (CIE) and Semester End Examination (SEE), both having equal weightages in the students' performance in Course Work/Laboratory Work and other activities.		
5	Other Items	<ul style="list-style-type: none"> • The total number of academic days in an academic year shall be ≥ 180. • Academic schedules prescribed by the College shall be strictly adhered to by all the concerned. • Students failing in any Course(s) shall register for the same again (re-register) and shall secure CIE and SEE afresh in each course(s). This shall continue until a pass grade is obtained in the said course(s). • <i>Summer Semester</i> shall be mainly used for conducting Repeat Courses for the benefit of slow learners/ repeaters. 		

5. Credit System:

5.1. General:

(a) System: The Institute has adopted the Choice Based Credit System (CBCS) for all the Programs. The number of Contact Hours in a week of a particular course determines its credit value. Each credit course shall be assigned appropriate number of credits, is a measure of the weightage of the course. The students have an option of choosing from a wide range of electives (Professional and open) and complete the programme at their own pace. Value added courses are also offered as a part of extended learning in inter-disciplinary and multi-disciplinary domains. The CBCS for the various programmes provides a great opportunity to the students in their preparation to meet the challenging opportunities ahead.

(b) Major Benefits: Major benefits accruing to the College by adopting the *Credit System* are listed below:

- Quantification and uniformity in the listing of courses for all programmes at a College, like core (hard/soft), electives and project work.
- Ease of allocation of courses under different heads by using their *credits* to meet national / international practices in technical education.

- Convenience to specify the minimum/ maximum limits of course load and its average per semester in the form of *credits* to be earned by a student.
- Flexibility in programme duration for students by enabling them to pace their course load within minimum/maximum limits based on their preparation and capabilities.
- Wider choice of courses available from any department of the same College or even from other similar Colleges, either for *credit* or for *audit*.
- Improved facility for students to optimize their learning by availing of transfer of *credits* earned by them from one College to another.

(c) Credit System: In the Credit System, the course work of students is utilized and each unit is assigned one credit after a student completes the teaching-learning process as prescribed for that unit and is successful in its assessment.

(d) Credit Definition: One credit referring to a Main Semester (Odd/Even) course shall be equal to:

- Theory course conducted for One hour per week per semester;
- Laboratory course or Tutorial, conducted for Two hours per week per semester;
- The above figures shall be multiplied by 2 in the case of Courses of Summer Semester.
- The student activities like practical training, study tours, participating in guest lectures, delivering lectures, workshops which etc., are not assigned any credits.

(e) Course Registration: A student shall register for courses (core or elective) to earn credits for meeting the requirements of a Degree programme. Such courses together with their grades and the credits earned shall be included in the Grade Card issued by the College at the end of each semester, like odd, even, summer and it forms the basis for determining the student's academic performance in that semester.

(f) Audit Courses: In Addition, a student can register for courses for audit only with a view to supplement his/her knowledge and/or skills. Here also, the student's grades will have to be reflected in the Grade Card. But, these shall not be taken into account in determining the student's academic performance in the semester.

5.2 Credit Structure:

(a) A typical Credit Structure for coursework based on the above definition is given in Table 5. This shall be applicable for the coursework of students registered for all UG, PG and Research Programmes offered by the institution.

Table 5: Typical Credit Structure for Course work

Lecture(L) hours/ week	Tutorial (T) hours/ week	Laboratory Work (P)(Hours/Week)	Distribution of Credits (L:T:P)	Total Credits
3	2	0	3:1:0	4
3	0	0	3:0:0	3
2	2	0	2:1:0	3
2	0	2	2:0:1	3
2	2	2	2:1:1	4
0	0	2	0:0:1	1

Thus, it is more appropriate to specify the eligibility requirements for a Degree award based on course work (like UG, PG) by prescribing the total number of *credits* to be earned, as an alternative to specifying the Programme Duration (as indicated in Section 4.4(a)). This will be of great help in providing the well-needed flexibility to the students in planning their academic programmes and their careers.

5.3. Course Load:

The course load for a student per semester (EVEN/ODD) as well as its minimum and maximum limits, are based on the guidelines by the University, which is based on the AICTE Model Curricula for UG/PG Programmes (February 2018) and considering the academic strength and capability of an average student.

(a) Course Load/ Semester for UG Programmes:

(i) For I and II semester, the prescribed course load per semester is fixed at 20 credits each/Sem (common for all the Programs).

(ii) In Higher semesters (From III to VIII), the average course load is 22 credits /semester, with its minimum and maximum limits being set at 16 and 28 credits for all Programs including the credits of open electives. This flexibility enables students to cope-up with the course work and helps in improving their academic performance and optimizes the learning outcome.

(iii) The minimum course load of any semester shall not be less than 16 credits even after dropping a course(s) or withdrawing from the registered course(s).

(b) Course Load/ Semester for PG – M.Tech/MBA/MCA Programmes:

(i) In the first two semesters, the prescribed course load per semester is fixed at 22 credits / semester for the M.Tech, MCA programmes and 25 credits/semester for the MBA programme.

(ii) In higher semesters, the average load is 22 credits /semester, with its minimum and maximum limits being set at 16 and 28 credits. This flexibility enables students (**from 3rd semester onwards**) to cope-up with the course work and helps in improving their academic performance and optimizes the learning outcome.

(c.) Credits to be earned for award of degree:

The total number of credits to be earned by a student to qualify for the award of degree is given in Table 6.

Table 6: Number of Credits to Qualify for the Award of Degree

Programme		Normal Duration: Years (Semesters)	Total number of Credits to be Earned
UG Degree	B.E.	4(8)	175
	B.E (Lateral Entry)	3(6)	135
PG Degree	M.Tech	2(4)	88
	M BA	2(4)	100
	MCA	2(4)	100

d) Contact Hours:

- Considering the expectations from engineering professionals with UG, PG and Research Degrees in the 21st century, the number of contact hours for students is fixed to 30-35 hours/week.
- This will help students in getting enough time and opportunity to do better preparation for the courses prescribed for credit, to take up self- study, to develop their creative talents and abilities and benefitting from the Add-On courses and those taken for audit.
- This can also enable them to get ready for challenging and exciting careers ahead.
- A typical example showing the calculation of contact hours based on course credits is given in Table 7

Table 7: Calculation of Contact Hours/Week – An Example

No. of Courses	Credits of the Course	Total Credits	Contact hours per week
Three Lecture Courses	3:0:0	9	9
Two Lecture cum Tutorial Courses	3:1:0	8	10
Two Lecture cum Laboratory Courses	3:0:1	8	10
One Lecture, Laboratory cum Tutorial Course	1:1:1	3	5
Total		28	34

(e.) Course Registration Details:

(i) Each student shall have to register for the prescribed courses of study at the beginning of the semester subject to course load / semester requirement.

(ii) The following category of students is required to re-register for the courses whenever they are offered:

- Students who have secured F grade
- Students who have been declared as AB
- Students who have failed to secure the minimum marks in CIE (Continuous Internal Evaluation) and are under NSC (Not Satisfying Attendance) category.
- Students who have failed to secure the minimum attendance and are under NSA category.
- Students who have withdrawn a Course and are under Grade W.
- Students who have dropped the courses.
- Students who have fulfilled the class attendance and Sessional Marks requirements, but have not registered for SEE.

(f) Course load in Summer Semester:

The Summer semester is provided for helping students who have failed in their examinations. During the summer semester, a student is permitted to re-register for course(s) where he/she has secured F-Grade/ NSA- Grade/NSC- Grade/ W-Grade/AB- Grade. A student is permitted to re-register for the maximum of **16 credits**.

The student has to pay a Course Registration fee prescribed by the College to register for a course in the Summer semester.

6. Curriculum Framework:

6.1 General Issues:

(a) Curriculum Framework is important in setting the right direction for a Degree/ Diploma/Certificate programme by the College, as it takes into account the type and quantum of knowledge necessary to be acquired by a student to qualify for a particular degree in his/her chosen branch or specialization area.

(b) Besides, this also helps in assigning the credits for each course, sequencing the courses semester-wise and finally arriving at the total number of courses to be studied and the total number of credits to be earned by a student to fulfil the requirements for the conferment.

(c) The College also takes into account the AICTE Model Curricula notified from time to time and follow them so as to be abreast of the national trends in this connection.

6.2. B.E. Degree Programme:

The Curriculum Framework for a B.E. Degree programme shall include the following Courses.

(a) **Recommended Courses:** These include coursework under the following categories:

- Humanities and Social Sciences including Management (HS);
- Basic Sciences (BS) (Mathematics, Physics, Chemistry, Biology);
- Engineering Sciences (ES) (Materials, Workshop, Drawing, Computers);
- Professional Core (PC), relevant to the chosen specialization/ branch;
- Professional Electives (PE), relevant to the chosen specialization/ branch;
- Open Electives (OE), from other technical and/or emerging subject areas;
- Project Work (PROJ), Seminar and/or Internship in Industry or elsewhere.

(b) **Mandatory Courses (MC) and Other Requirements:**

- The UG student shall complete the non-credit mandatory courses defined in the curricula.
- Such courses shall not carry any *credit* for the award of the Degree.
- But, a pass in each such course during the programme shall be a necessary requirement for the student to qualify for the Degree.
- Hence, the student's performance with respect to *Mandatory Courses* shall be included in the grade card as Pass (PP) /Not Pass (NP)

(c.) **Induction Programme and Internship:**

- As per the requirements of AICTE in its Model UG Curriculum (February 2018), a three-week Induction Programme for the first-year B.E. students at the beginning of their First Semester is included as mandatory requirement.

- The Curricula scheme also includes Internships that needs to be taken up during summer/winter semester breaks, and are assessed through seminar and report submitted during the Odd/Even semester.

(d) Classifications of Courses: The above courses shall be classified as:

- (i) Institutional Courses
- (ii) Departmental Core Courses
- (iii) Departmental and Interdepartmental Electives
- (iv) Mandatory Courses
- (v) Audit Courses

while the courses (i) to (iii) are credit courses, (iv) are credit/non-credit courses and (v) are non-credit courses

(i) Institutional Courses- Credit Courses

Basic Sciences, Engineering Core Courses and Humanities & Social Science courses are the Institutional Courses. The student shall complete all the Institutional courses having credit weightage. The grades and credits earned by the candidate in the courses shall be included in the grade card.

(ii) Departmental Core Courses – Credit courses

Professional Core courses are Departmental Core Courses. The student shall complete all the departmental core courses having credit weightage. The grades & credits earned by the candidate in the courses shall be included in the grade card.

(iii) Departmental and Inter-Departmental Electives – Credit Courses.

Professional Elective courses of parent and other departments are the Departmental & Inter-Departmental Electives. The student shall complete the prescribed number of departmental and interdepartmental electives having credit weightage. The grades and credits earned by the candidate in the courses shall be included in the grade card.

(iv) Mandatory Courses – Non-Credit Courses.

The student shall complete the non-credit mandatory courses defined in the curricula. Such courses shall not carry any *credit* for the award of the Degree. But, a pass in each such course during the programme shall be a necessary requirement for the student to qualify for the Degree. Hence, the student's performance with respect to *Mandatory Courses* shall be included in the grade card as Pass (PP) /Not Pass(NP)

(v) Audit courses– Non-Credit Courses.

A student having prerequisite can register to any course under (ii) and (iii) of (6.2d) whenever they are offered with a view to supplement his/her knowledge and/or skills. Registration for audit course(s) is permitted from III semester onwards. The audit course(s) has to be completed as per the attendance and CIE norms for record of the audit course(s) in the grade card.

(e) Allocation of Credits for B.E. Degree Programme: Looking at the UG Engineering Degree programmes practiced at leading institutions in India and abroad and the need for Indian engineering professionals to be able to meet the 21st century challenges, proposed breakdown of coursework is as given in Table 8. It is expected that this breakdown will lead to a highly useful and respectable B.E Degree programme under the Institution.

Table 8: Breakdown for the B.E Degree Curriculum

Course Category*	Percentage (%) of total Credits		Average number of credits (Typical)
	Minimum	Maximum	
Humanities, Social Sciences and Management (HS)	5	10	10
Basic Sciences (BC)	10	20	28
Engineering Sciences (ES)	10	20	20
Professional Courses (PC) – Core	30	40	64
Professional Courses(PE) -Elective	10	15	20
Other Open Elective Courses(OE)	5	10	09
Project Work (PROJ)	10	15	24
TOTAL			175

(f) Sequencing of Courses for B.E Degree: The above breakdown of the B.E Degree curriculum shall form the basis for proper sequencing of the coursework for the programmes. Based on this, a typical sequencing plan for coursework by taking into account the provisions in the AICTE Model Curriculum for B.E. Degree programme is given in Table 9.

Table 9: A Typical Sequencing Plan for the B.E Degree Curriculum

Semesters	Course Categories
I-II	<ul style="list-style-type: none"> HS, BS and ES, Common for all Programmes <i>as per AICTE Model Curriculum.</i> MC and Mandatory <i>Induction Programme (3 weeks).</i>
III-IV	<ul style="list-style-type: none"> HS, BS and ES, Common for all Programmes (to be continued). Also, MC (to be continued, if required). PC: In two/three groups (<i>like Circuit, Non-Circuit</i>). Area-wise Orientation, Add-On Courses.
V-VII	<ul style="list-style-type: none"> PC/PE/OE, Core and Electives. Branch-wise Orientation, Add-On Courses, Seminar, Internship.
VIII	<ul style="list-style-type: none"> PE/OE, Electives, Project work (PROJ), Dissertation. Add-On Courses, Seminar, Final wrap-up of Programme.

6.3. PG Degree Programmes:

The College offers PG programmes like M. Tech, M.B.A, and M.C.A. Following on similar lines as in Table 8, a typical allocation of credits for each of these programmes is now given in Tables 10 to 12. Here, hard core includes all compulsory Courses, whereas soft core covers a choice to be made from among the suggested compulsory Courses.

(a)M.Tech. Programmes: Typical allocation of credits for the M. Tech programme is given in Table 10. Here, hard core includes all compulsory Courses, whereas soft core covers a choice to be made from among the suggested compulsory Courses. The credit range for each category is based on the guidelines from the University (2018) and the AICTE model curriculum (2018).

Table 10: A Typical Breakdown for the M. Tech Degree Curriculum

Course Category	Percentage (%) of total Credits		Average number of credits (Typical)
	Minimum	Maximum	
Core Courses (Hard/Soft)	15	25	22
Electives (Specialization/Other)	25	35	30
Project Work	30	45	30
Industrial Internship, Seminar & Field Work	05	10	06
TOTAL			88

M.B.A Programme: The Institute offers the PG programme in Master of Business Administration (M.B.A.), with credit distribution among various curricular components as given in Table 11. The MBA programme includes courses from Core Courses, Electives, Seminar, and Field Work/Internship & Project Work

Table 11: A Typical Breakdown for the M. B. A Degree Curriculum

Course Category	Percentage (%) of total Credits		Average number of credits (Typical)
	Minimum	Maximum	
Core Courses (Hard/Soft)	45	60	50
Electives (Specialization/Other)	20	35	25
Seminar	02	10	05
Field Work/Internship & Project Work	10	25	20
TOTAL			100

M.C.A. Programme: The Institute offers the PG programme in Master of Computer Applications (M.C.A.), with credit distribution among various curricular components as given in Table 12.

Table 12: A Typical Breakdown for the M. C.A Degree Curriculum

Course Category	Percentage (%) of total Credits		Average number of credits * (Typical)
	Minimum	Maximum	
Core Courses (Hard/Soft)	40	55	47
Electives (Specialization/Other)	20	35	24
Seminar	02	10	02
Industrial Internship and Project Work	20	35	27
TOTAL			100

*The total number of credits for the first and second semesters shall be limited to 44

6.4 Coursework of Research Degree Programmes: The Institute offers M. Sc. (Engineering by Research) and Ph.D. programmes. For details, refer to the VTU Academic Rules & Regulations for Research Programmes.

7. Assessment:

7.1. Achievement Testing:

a) The assessment of students' performance in course work during and/or at the conclusion of a programme has to be done using examinations. In general, an examination addresses different objectives, like achievement-testing, prediction-testing, endurance-testing, creativity-testing and testing for ranking.

(b) In technical education, the assessment has to be preferably of the achievement- testing type, so that a student's knowledge, understanding and competence in the courses studied are properly assessed and certified. The reforms in the examination system given below enables the College to achieve this goal and gain the confidence and respect of the stake holders, particularly students. Typically, achievement- testing is done in two parts as follows, both of them being important in assessing a student's achievement:

- **Sessional:** Involving **Continuous Internal Evaluation (CIE)**, to be conducted by the course instructor all through the semester. This includes mid-term tests, homework assignments, problem solving, group discussions, quiz, seminar, mini-project and other means.
- **Terminal**, covering **Semester End Examinations (SEE)**, to be conducted by the course instructor jointly with an external examiner at the end of a semester, on dates to be fixed at the College level. This may include a written examination for theory courses and practical/design examination with built-in oral part for laboratory/design courses.

(c) The Students are assessed through Continuous Internal Evaluation (CIE) and Semester End Examination (SEE). Both CIE and SEE being equally important in judging the coursework performance of students, they need to be conducted with equal rigour and equal seriousness in the credit system. This makes it necessary that both of them are assigned equal (50:50) weightage. And, a student's performance in coursework shall be judged by taking into account the results of both CIE and SEE individually and also together by giving equal weightage for them.

7.2 Question Papers:

(a) **Question Paper Pattern:** For an effective achievement testing of students in a course, a good question paper needs to be used as the principal tool. This makes it necessary for the question papers used at CIE and SEE to;

- Cover all sections of the course syllabus uniformly.
- Be unambiguous and free from any defects/errors.
- Emphasize knowledge testing, problem solving and quantitative methods.
- Contain adequate data/ other information on the problems assigned, and
- Have clear and complete instructions to the candidates.

(b) **Question Paper Planning:** The above requirements make it necessary for a Question Paper to cover the entire syllabus, with a provision for the students to answer questions from the whole syllabus. As students need to be given some choice in the questions included in the Paper, it is necessary for the Question Papers at SEE, in particular, to have built in choice under each modules of the syllabus.

(c) Besides, it is also necessary for the Course syllabi to be drafted properly, be defect-free and also properly given in modular form to enable the setting of good question papers covering the whole syllabus. These aspects have to be taken into account, in particular, by the Boards of Studies.

(d) **Typical Question Paper:** The questions to be included in the Question Papers at CIE and SEE can be of two types as follows and the course instructors as well as the external examiners shall have to be well trained/experienced to set them.

- Multiple Choice Question, having each question to be answered by tick marking the correct answer from the choices (commonly four) given against it. Such a question paper to be useful in the testing of knowledge, skills, comprehension, application, analysis, synthesis, evaluation and understanding of the students. However, Question Papers for CIE and SEE to include not more than 15-20% of questions of this type.
- Comprehensive Questions, having all questions of the regular type to be answered in detail. Such a Question Paper to be useful in the testing of overall achievement and maturity of the students in a course through long questions relating to theoretical/practical knowledge, derivations, problem solving, modeling, simulation, design, application and quantitative evaluation.

7.3. Examinations:

(a) **Maintenance of Standards:** For ensuring a high standard in both CIE and SEE fully meeting the provisions of the University Statutes and being able to declare the results of students' performance at both these in a time bound manner as per the Academic Calendars, the College adopts the followings for conducting the examinations:

(b) **CIE:** The CIE shall be conducted exclusively by the course instructor. The instructor to spell out the components of CIE to the students in advance, maintain transparency in its operation, declare the evaluation results in time and then return the answer scripts and assignment sheets to them as soon as possible. The instructor shall also solve the questions from these test papers during tutorial sessions for the benefit of all the students concerned, especially slow learners.

(i) Student Evaluation Pattern for CIE (UG – B.E. Programmes):

- **Theory Courses:**
 - The maximum marks prescribed for CIE is 50.
 - CIE components include tests, assignments and group activity.
 - There shall be two tests. A makeup test shall be conducted with valid reasons acceptable to the institute, duly recommended by the mentor and HOD.
 - Under CIE - Test, two events shall be conducted for 25 Marks each, in all the theory courses in a given semester (Table 13). Each event includes one descriptive written test (20 Marks) and one quiz (05 Marks).
 - The sum of the two test performances shall be considered for final CIE marks along with the performance of Assignments (Max 05 Marks) and Group Activity (Max. 05 Marks).

- Final CIE marks shall include 40 Marks from two CIE tests, 5 marks from two assignments and 5 marks from Group Activity.
- NOTE: The following formula is used to award final CIE Score:

$$\text{CIE Score} = \text{Performance of (Test 1+ Test 2)} \times 0.8 + \text{Score of (Assignment + Group Activity)}$$

Table 13: CIE Features

Particulars		Maximum marks : 25	Duration in Hours: Minutes
CIE – I	Test 1 and Quiz 1	20 and 05	1:00
CIE – II	Test 2 and Quiz 2	20 and 05	1:00
Make up CIE (CIE – III)	Test 3 and Quiz 3	20 and 05	1:00

NOTE: Make up CIE: A Compensatory Test will be provided to those students, course-wise, remained absent for the CIE I/II or both due to a valid/unavoidable circumstance with prior permission OR not secured minimum eligible marks to appear for SEE even after writing two CIEs along with assignment and group activity.

- **Laboratory and drawing Courses:**

- The maximum marks prescribed for CIE is 50.
- Continuous evaluation is done in each class through evaluation of practical records and conduction of experiment/ drawings made in each class. The evaluation shall be for 30 marks.
- One test of 3 hours duration shall be conducted like Semester End Examination (SEE). The students are evaluated for 20 marks.
- The total marks earned in the preceding two steps by the student shall be considered for final CIE marks.

- **Project Evaluation (Mini Project, Main Project Phase–I & Main Project Phase – II)**

- The maximum marks prescribed for CIE is 50.
- The CIE of the project work shall be done based on the progress of the student in the project work assigned by the project supervisor, periodically by the Departmental Project Evaluation Committee (DPEC) constituted for this purpose.
- This committee is also responsible for evaluation of student performance in Seminar & Project Report before submission for SEE.

(ii) Student Evaluation Pattern for CIE (PG – M.Tech/MBA/MCA programmes):

- **Theory Courses**

- The maximum marks prescribed for CIE is 50.
- CIE components include tests, assignments, group activity, subject seminar / case study/Lab /Industry Visit (Table 14).
- There shall be two tests. A makeup test is conducted with valid reasons acceptable to the institute, duly recommended by the mentor and HOD.
- Under CIEs – Descriptive Test, shall be conducted for a maximum of 30 Marks each, in all the theory courses in a given semester(Table 14) and then reduced to a maximum of 15 Marks each.
- The sum of the two test performances shall be considered for final CIE marks along with the performance of Assignments (Max 05 Marks), Group Activity (Max. 05 Marks) and subject seminar / case study/Lab /Industry Visit (Max. 10 Marks) .
- Final CIE marks shall include 30 Marks from two CIE tests, 5 marks from two assignments, 5 marks from Group Activity and 10 Marks from subject seminar / case study/Lab /Industry Visit.

NOTE: Make up CIE: A Compensatory Test will be provided to those students, course-wise, remained absent for the CIEI/II or both due to a valid/unavoidable circumstance with prior permission OR not secured minimum eligible marks to appear for SEE even after writing two CIEs along with assignment and group activity.

Table 14: CIE Features for PG – M.Tech/MCA/MBA Programmes

#	Evaluation Components	Maximum Marks	Minimum Marks for Eligibility	Duration of CIE, in Minutes
a	CIE-1	15	06	90
b	CIE-II	15	06	90
c	Make up CIE (CIE-III)	15	06	90
d	Assignments	10	04	---
e	Group Activity	05	02	---
f	Seminar/Case study/Lab/industry visit	05	02	---
	Total	50	20	

- **CIE for laboratory and drawing Courses**

- The maximum marks prescribed for CIE is 50.
- Continuous evaluation is done in each class through evaluation of practical records and conduction of experiment/ drawings made in each class. The evaluation shall be for 30 marks.
- One test of 3 hours duration shall be conducted like Semester End Examination (SEE). The students are evaluated for 20 marks.
- The total marks earned in the preceding two steps by the student shall be considered for final CIE marks.

- **CIE for Project Evaluation (Mini Project, Main Project Phase I & II)**

- The maximum marks prescribed for CIE is 50.
- The CIE of the project work shall be done based on the progress of the student in the project work assigned by the project supervisor, periodically by the Departmental Project Evaluation Committee (DPEC) constituted for this purpose.
- Only after satisfactory outcome of the project work, quality of Project Report, publications (Conferences/Journals), and plagiarism check (< 25 %), shall be eligible for SEE. For details refer the following **NOTE**.
- DPEC is also responsible for evaluation of student performance in Seminar & Project Report before submission for SEE.

NOTE: Plagiarism index for Project report/Thesis:

- All project reports shall go through the plagiarism check and the similarity index has to be less than 25%.
- If the report indicates plagiarism index >25%: for the first time the candidate has to resubmit the dissertation along with the penal fees of Rs. 2000/- (Two thousand only) in person.
- for the second time the candidate has to resubmit the dissertation along with the penal fees of Rs. 4000/- (four thousand only) in person
- If the dissertation is rejected again during second resubmission, the candidate shall redo the project and submit after a semester's time.

(c) Semester End Examination (SEE):

The SEE shall be conducted jointly by the course instructor and an external examiner appointed for this purpose by the College. Here, the external examiner is to mainly associate with the work of Question Paper setting, because of the difficulties in having him/her for conducting the evaluation of students' answer scripts due to the tight time schedule for the various tasks connected with SEE, as covered in sub-sections (i) and(ii) below.

(i)SEE Answer Scripts: The answer scripts of SEE may be normally evaluated by the course instructor only. But as a healthy step, an Examination Committee shall oversee this task and ensure the quality and standard of evaluation and also of the *grades* awarded in all the cases. The next step to be taken before declaring the results, to include an external review of the SEE conducted.

(ii) External Review of SEE: An external review shall be conducted under the aegis of the Board of Studies/Board of Examiners of the College by appointing a panel of experts from outside the College for this purpose aiming at a complete review of SEE operation in the College. This may include such steps as, *question paper review, checking random samples of answer scripts, analysis of results/grades awarded and other related aspects*. This step to be also necessary for gaining the confidence of the University and of the society at large, on the fairness, transparency and acceptability of the examination practice among the stakeholders.

(d)SEE Pattern for UG and PG Programmes:

(i)The theory / drawing and Practical examinations shall be conducted at the end of each semester, on the dates notified by the Dean (Examinations) based on the calendar of events.

(ii) For **UG Programmes**, The Examination shall be for a maximum of 100 marks and finally reduced to 50 marks. The duration of the examination shall be 3 hours for 3 and 4 credit courses, 2 hours for 2 and 1 credit theory courses and 3 hours duration for all Laboratory courses.

(iii) For **PG Programmes**, The Examination shall be for a maximum of 100 marks and finally reduced to 50 marks. The duration of the examination shall be 3 hours for all courses.

(iv)The final viva-voce (both mini project in 6th sem and main project in 8th sem) shall be conducted by both internal and external examiners for 100 marks and finally reduced to 50 marks.

(e) Passing Standards:

To maintain high academic standards, the Institute has adopted the eligibility criterion for CIE and SEE as shown in Table. 15 for UG and 16 for PG Programmes.

Table 15: Passing Standards using Absolute Grading

Particulars		Maximum Marks	Minimum Marks to be earned	
CIE	Theory Courses	50	40% of max marks - 20 Marks	
	-Credit course			
	-Audit			
	-Mandatory non- credit courses			
	Practical/ Drawing/Survey Practice/Project work	50	40% of max marks - 20 Marks	
SEE	Theory Courses	50	40% of max marks - 20 Marks	
	-Credit course			
	-Non-credit course			-
	-Mandatory non- credit courses			-
	Practical/ Drawing/Survey practice/Project work	50	40% of max marks - 20 Marks	

The students who fail to earn minimum marks in CIE shall be placed under Not Satisfied CIE requirement (NSC) category.

Table 16: Passing Standards for PG - M.Tech/MBA/MCA using Absolute Grading

Particulars		Maximum Marks	Minimum Marks to be earned
CIE	Theory Courses – Credit course	30	40% of max marks- 20 Marks
	– Audit course	50	40% of max marks- 20 Marks
	- Mandatory non - credit courses	50	40% of max marks-20 Marks
	Practical/ Project work	50	40% of max marks - 20 Marks
SEE	Theory Courses		
	– Credit course	50	40% of max marks - 20 Marks
	– Audit course	-	Exempted
	- Mandatory non - credit courses	-	Exempted
	Practical/ Project work	50	40% of max marks–20

(f) In the case of other requirements, such as seminar, industrial internship, field work, comprehensive viva voce, if any, the assessment shall be made as laid down by the Academic Council of the College.

(g) There shall be no re-examination for any Course in the *credit system* to take care of such students:

- (i) Who have absented themselves from attending CIE or SEE without any valid reason;
- (ii) Who have failed (Grade F, as covered in Section 8) to meet the minimum passing Standard prescribed for CIE and/or SEE;
- (iii) Who have been detained for shortage of attendance in any coursework;
- (iv) Who have withdrawn (Grade W, as covered in Section 8.) from a Course.

Such students shall be required to re-register for the Course(s) and go through CIE and SEE again and obtain a Grade E or better (see Tables 17) in each case. The re-registration shall be possible only when the particular Course is offered again either in a main (Odd/Even) or a summer semester.

7.4. Attendance Standards:

(a) Attendance Requirements:

- (i) The period for attendance calculation is from the day of commencement to the last working day of each semester.
- (ii) The attendance requirement is 85% of the classes conducted in each course.
- (iii) In case of delayed admission to I semester of any program, the attendance is counted from the day of admission
- (iv) In case of short fall of attendance, the Principal of the Institute can condone the deficiency up to 10% on the prescribed limit of 85% in special cases like medical exigencies, participation with permission in University/State/National/International sports meets, cultural events, etc. He/ She has to produce authentic documents through the mentor and HODs recommendations.
- (v) Any student failing to meet the attendance requirement in any course(s) registered shall not be allowed to appear for SEE of such course(s) and will be placed under Not Satisfied Attendance (NSA) category.

(b) Leave Facility during an odd/even semester

- (i) A student must obtain prior permission from the concerned course teacher, Mentor and Head of the Department (HOD) in advance, when the absence is expected to be more than 2 consecutive days. The application for leave of absence must be made in writing to the HOD with the recommendation of the Mentor. The student will have to furnish the supporting documents either before or after the absence.
- (ii) In case the application cannot be made in advance for grant of leave, the same must be made immediately after returning from the absence, along with necessary documents.
- (iii) Failure to apply in writing before proceeding on leave or within a reasonable period of time after returning from leave may lead to the absence being considered as casual absence. The above requirements also apply to students representing the institute in University/State/National/International sports meets, cultural events, etc.
- (iv) The permitted leave of absence will be considered for attendance condonation to an extent of 10% only. Hence the above relaxation is only to those students having attendance in the range of 75% to 85%.

8. Grading:

8.1 General:

(a) In recent years, the grading system has replaced the evaluation of students' performance in a Course based on absolute marks, because of its many advantages. Therefore, Autonomous Colleges under the University shall follow this practice. Here again, it is necessary to maintain uniformity in the grading practices at different Colleges to ensure that the migration of students or transfer of credits among Autonomous Colleges under the University is made easy.

(b) Letter Grades: A letter grade is basically a qualitative measure (an alphabet/letter) giving the performance of a student, such as, Outstanding (S), Excellent (A), Very Good (B), Good (C), Above Average (D), Poor (E) and Fail (F), based on the raw score (marks, as in conventional practice) obtained by the student. This is usually arrived at after the student's performance in a Course, which includes both CIE and SEE, is assessed and raw score (marks) for the total are awarded to begin with, followed by grouping of all the students at a Course under different grading levels, as above.

(c) **Absolute Grading:** Among the two grading systems, i.e. Relative and Absolute, Dr. AIT adopts the absolute grading system.

8.2 Grade Points:

(a) Grading in education is the process of applying standardized measurements of varying levels of achievement in a course. Depending on the *letter grades* assigned, a student earns certain *grade points*. As the *grading* system can have different scales for *grade points* (like 5, 8, 10.) The institute follows a 10-point scale. The total marks scored by the students in CIE and SEE shall be converted into letter (an Alphabet) grades S, A, B, C, D, E and F. Each letter grade is basically a qualitative measure of performance of a student. The equivalence of letter grade in terms of grade points and examination marks range is as shown in Table. 17

Table 17: Grade Points Scales for both Relative and Absolute Grading

Level	Out standing	Excellent	Very Good	Good	Above Average	Average	Fail
Grade	S	A	B	C	D	E	F
Grade Points	10	09	08	07	06	04	00
Score (Marks) Range %	≥ 90	$< 90 - \geq 80$	$< 80 - \geq 70$	$< 70 - \geq 60$	$< 60 - \geq 50$	$< 50 - \geq 40$	< 40

(b) The *grade points* given in Table 17 will help in the evaluation of *credit points* earned by the student in a Course as the *credit points* are equal to the number of credits assigned to the Course multiplied by the *grade points* awarded to the student in that Course. This shall be used in arriving at the *credit index* of the student for that semester, as it is the sum total of all the *credit points* earned by the student for all the Courses registered in that semester.

(c) **Earning of Credits:** A student shall be considered to have completed a Course successfully and earned *credits* if he/she secures an acceptable *letter grade* in the range S to E. *Letter grade* F in any Course implies failure of the student in that Course and no *credit* shall be earned.

(d) **Transitional Grades:** The *transitional grades*, such as, 'T', 'W' and 'X' shall be awarded to a student in the following cases. These *grades* need to be converted into one or the other of the *letter grades* (S-F) after the student completes his/her Course requirements, including the examinations.

(i) **Grade 'T':** Awarded to a student having satisfactory attendance at classes and meeting the passing standard at CIE in a Course, but remained absent from SEE for valid and convincing reasons acceptable to the College, like:

- Illness or accident, which disabled him/her from attending SEE;
- A calamity in the family at the time of SEE, which constrains the student to be away from the Institute;
- Any other emergency certified by the competent authority.

(ii) **Grade 'X':** A student, who has satisfied attendance requirements and has CIE marks $\geq 90\%$ in any course, but earned F grade in SEE, shall be awarded grade 'X'.

(iii) **Grade 'W':** Awarded to a student who has satisfied CIE and attendance requirements can withdraw from a course(s) with the intention of performing well later in those course(s). In such cases, Grade 'W' is awarded in those course(s).

- A specific period shall be identified towards the end of each semester to help review the students' performance in CIE by the Mentors to withdraw course(s).
- HODs of the concerned Departments shall ensure that the total number of registered credits even after withdrawal of course shall be at least 16.
- If Any courses are withdrawn such courses are to be re-registered whenever the courses are offered.

Note: Change of Open Electives (OEs) and Professional Electives after an attempt is not permitted.

(e) *Make-up Examination:* The *Make-up Examination* facility shall be available to the students who may have missed to attend the SEE of one or more Courses in a semester for valid reasons and given the 'I' grade. Students having the 'X' grade shall also be eligible to take advantage of this facility. The *Make-up Examination* shall be held as per dates notified by Controller of Examination, immediately after the announcement of Semester end examinations (both regular and summer semesters) results.

In all these cases, the standard of the *Make-up Examination* shall be the same as that of the regular SEE for the Courses.

(f) All the 'I' and 'X' *grades* awarded to the students shall have to be converted into one of the letter grades based on the performance in the makeup examination. In case the student fails to register in the immediate makeup examination or fails to appear for the makeup examination, then F grade shall be awarded to the student in that course.

(g) All the 'W' *grades* awarded to the students shall be eligible for conversion to the appropriate letter *grades* only after the concerned students re-register for these Courses in a main (*Odd/Even*)/summer semester and fulfil the passing standards for their class attendance, CIE and (CIE + SEE) as prescribed at the College.

(h) *Dropping of Courses:* Students who find it too difficult to pass a course can Drop the course(s) after CIE-I the total number of credits registered even after dropping a course(s) shall be at least 16.

(i) A specific period shall be fixed for dropping courses in a given semester after the announcement of CIE-I result based on the recommendations of the Mentor in consultation with the course teacher. The same shall be recommended by the concerned HOD. Dropping of course(s) shall not appear in the Grade Card.

(ii) If Core Course(s) are dropped then such course(s) are to be re-registered whenever the course(s) are offered. However, if the dropped course(s) are electives, then students have an option to re-register either for the same or an equivalent course(s) later, depending on the availability of course(s) with the consent of the Mentor and approval from the concerned Head of the Department.

(i) *Grade Card:* Each student shall be issued a *Grade Card* (or transcript) at the end of each semester. While this will have a list of all the Courses registered by a student in the semester together with their *credits*, the *letter grades* with *grade points awarded* in each case and those with *grades 'I', 'W' and 'X'*, only those Courses registered for *credit* and having *grade points* shall be included in the computation of the student's performance, like *SGPA* and *CGPA*. And, the Courses taken for *audit* will not form part of this computation. The results of *mandatory courses*, which are of the *non-credit* type, shall also be reflected in the *Grade Card as PP* (for

Passed) or NP (for Not Passed). It shall be noted that each UG student shall have to obtain the grade PP in each mandatory course to qualify for the Degree award by the University

8.3 Grade Point Averages:

(a) **SGPA and CGPA:** The *credit index* can be used further for calculating the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA), both being important academic performance indices of the student. While SGPA is equal to the *credit index* for a semester divided by the total number of *credits* registered by the student in that semester, CGPA gives the sum total of *credit indices* of all the previous semesters divided by the total number of *credits* registered in all these semesters. Both the equations together facilitate the declaration of academic performance of a student, at the end of a semester and at the end of successive semesters respectively. Thus,

(i) **Semester Grade Point Average (SGPA):** SGPA is equal to the credit index for a semester divided by the total number of credits registered by the student in that semester.

$$SGPA = \frac{\sum [(Course\ Credits) \times (Grade\ points\ for\ all\ registered\ Courses\ with\ letter\ grades\ from\ S\ to\ F)]}{\sum (Course\ credits\ for\ all\ registered\ Courses\ with\ letter\ grades\ from\ S\ to\ F)}$$

(ii) **Cumulative Grade Point Average (CGPA):** CGPA gives the sum total of credit indices of all the previous semesters divided by the total number of credits registered in all these semesters.

$$CGPA = \frac{\sum [(Course\ credits) \times (Grade\ points\ for\ all\ registered\ Courses\ excluding\ those\ with\ F\ \&\ transitional\ grades\ until\ that\ semester)]}{\sum [(Course\ credits\ for\ all\ registered\ Courses\ excluding\ those\ with\ F\ \&\ transitional\ grades\ until\ that\ semester)]}$$

Note: For details on transitional grades refer to section 8.2.d.

(b) **Vertical Progression:** The criteria for Vertical Progression is based on University guidelines. Hence to lay down uniform minimum standards for CGPA together with the minimum number of credits to be earned in an academic year so as to facilitate the mobility of students from one College to another the prescribed standards for vertical progression for **all programs (BE, M.Tech., MBA and MCA)** offered by the College shall be as follows:

1. Based on the range of minimum and the maximum credits to be earned in an academic year (inclusive of supplementary semester, if any):

(i) First year: ≥ 28 to ≤ 40 credits

(ii) Second year and third year: ≥ 32 to ≤ 56 credits

2. Minimum standard for CGPA = 5.0 (At the end of each academic year).

3. Further, at the end of each academic year (inclusive of supplementary semester), the number of heads with “F” of all the previous semesters shall not exceed four.

(i) **Vertical Progression in case of Regular students admitted to first year**

- There shall be no credit requirements and restrictions, barring attendance and CIE requirements, for a student to move from odd semester to immediate higher even semester.
- A student shall not be eligible for promotion from even semester to next odd semester if the student has more than four incomplete courses. The incomplete courses shall be under F, AB, NSA and NSC, NR (Not registered for SEE) category
- Students having n
- Not more than four incomplete courses in the four semesters of I and II year shall be eligible to move to III year
- Student who have earned all the prescribed credits of I year, and having not more than four incomplete courses in the four semesters of II and III year shall be eligible to move to IV year.
- For the award of degree, a CGPA ≥ 5.00 at the end of Programme shall be mandatory.

(ii) Vertical Progression in case of Diploma students admitted to Second year (lateral entry)

- Students having not more than four incomplete courses (excluding the Fail or pass status of Additional Mathematics I and II) in the two semesters of II year of the Programme shall be eligible to move to III Year.
- Students having not more than four incomplete courses (excluding the fail status of Additional Mathematics I and II, if any) in the four semesters of II and III year shall be eligible to move to IV year.
- For the award of degree, a CGPA ≥ 5.00 at the end of Programme shall be mandatory.

(iii) Vertical Progression in case of PG programmes:

- There shall be no credit requirements and restrictions, barring attendance and CIE requirements, for a student to move from odd semester to immediate higher even semester.
Example: I semester to II semester, III semester to IV semester, for MTech/MBA, V semester to VI semester in MCA.
- A student shall not be eligible for promotion from even semester to next odd semester if the student has more than four incomplete courses.
- A Student is eligible for promotion from even semester to next odd semester provided the earned CGPA is equal to or greater than 5.0 at the end of each academic year.

(c) Award of Class: Sometimes, it is necessary to provide equivalence of these averages, viz., SGPA and CGPA with the percentages and/or Class awarded as in the conventional system of declaring the results of University examinations. This shall be done by Autonomous Colleges under the University only at one stage by prescribing certain specific thresholds in these averages for First Class with Distinction, First Class and Second Class, at the time of Degree Award. This provision given in Table 18 follows the approach of the Council for this purpose as reproduced from the AICTE Approval Process Handbook.

Table 18: Percentage Equivalence of *Grade Points* (For a 10 – Point Scale)

Grade Point	Percentage of Marks/Class
5.75	50
6.25	55
6.75	60
7.25	65
7.75	70
8.25	75

NOTE: 1. Conversion from CGPA to Percentage: The following Formula for Conversion of CGPA to percentage of marks to be used only after a student has successfully completed the programme:

$$\text{Percentage Marks} = (\text{CGPA} - 0.75) \times 10$$

2. Class designation:

- $\geq 70\%$ (First Class with Distinction),
- $\geq 60\%$ and $< 70\%$ (First Class),
- $< 60\%$ (Second Class).

Gracing Policy:

- Grace marks shall be awarded to a Subject/Paper/Practical/ Head of passing to a maximum of 2% of Semester End Examination (SEE) marks if, after gracing the candidate gets minimum prescribed marks in the Theory/Practical and passes in the subject.
- A candidate shall be eligible to a maximum of 5 grace marks, provided He/She has failed in only one subject (Pr/Th/Head of Passing) of the examination passes the whole examination by such gracing Gets minimum prescribed marks in the paper/ practical and aggregate for passing by such gracing.
- Above is also applicable to the candidates who have cleared all courses in the programme but failed in one course which deny the award of degree.
- Grace Marks shall be awarded for declaration of classes also. For obtaining a higher class a candidate is eligible for getting a maximum of 5 grace marks, which will be added to the total aggregate marks of the candidate and will declare the candidate to have passed the examination in I Class of FWD.
- Grace marks (GMR) awarded as per GMR 01 for passing a subject and GMR 02 for passing the whole examination are shown only in the ledger and not in the statement of marks. A candidate is entitled for grace marks only under any one of the regulations either as per GMR01 or GMR 02 or GMR 03 A candidate is entitled for grace marks of 5 for the award of class of the degree.

9. Other Academic Matters:

9.1 Choice Based Credit System:

(a) It is necessary to implement a *Choice Based Credit System* for academic programmes at all the Autonomous Colleges under the University. This will be of considerable benefit to the students for customizing their programmes of direct interest to them, developing their individual capabilities and talents and preparing them for exciting careers ahead in the 21st century.

(b) This makes it necessary for the Autonomous Colleges to provide for:

(i) Easy access to the Schemes of Instruction, Syllabi, *Credit Structure* of programmes and the Courses being conducted by all students (either in print or in electronic form) so as to assist them in course work planning.

(ii) Institutionalizing the conduct of course work by adopting a centralized time table for all the programmes at a College, with a view to assist the students in customizing their programmes and also optimizing the use of physical facilities.

(iii) Establishing a dynamic *Faculty Advisory System* at each College with 5-10 students assigned to an Advisor, for guiding them in planning/implementing their course work in a flexible and effective manner and also monitoring them.

9.2. Change of Branch:

Students can apply for change of branch in accordance with the provisions laid down by the Institute, University, Council and Government of Karnataka. Change of branch is considered in the following cases;

- Change of branch is considered at the beginning of III Semester only.
- Only those students who have earned all the 40 credits of I/II semesters are eligible for the change of branch.

9.3. Transfer of Students:

(a) Transfer of Dr. AIT students from non-autonomous to the autonomous Program

- Students seeking transfer from VTU Programs of Dr. AIT to II or III year autonomous Programs of Dr. AIT shall be eligible to be admitted to the respective odd semesters (III & V) as per the VTU regulations under which the student enrolled to the B.E degree Program. Further the student should satisfy the course equivalence between non-autonomous and autonomous curricula. Otherwise they shall have to register and complete the additional courses to become eligible for the award of degree under Autonomous Program of Dr. AIT. In case of failed courses of VTU programme, student shall complete such courses by appearing in the examinations conducted by VTU.
- Students seeking readmission shall be free from malpractice issues and dues to the Institution.

(b) Transfer of students from other Non-autonomous Institutions to the autonomous program of Dr.AIT

- Students seeking transfer from VTU Programs of other Institutions to II or III year autonomous Programs of Dr. AIT shall be eligible to be admitted to the respective odd semesters (III & V) as per the VTU regulations under which the student has enrolled to the B.E degree Program. Further the student should satisfy the course equivalence between non-autonomous and autonomous curricula. Otherwise they will have to register and complete the additional courses to become eligible for the award of degree under Autonomous Program of Dr. AIT. In case of failed courses of VTU program, students shall complete such courses by appearing in the examination

conducted by VTU.

- Students seeking readmission shall be free from malpractice issues.

(c) Transfer from other autonomous Institutions to the autonomous program of Dr.AIT

- Students seeking transfer from other Autonomous Institutions to II or III year autonomous Programs of Dr. AIT shall be eligible to be admitted to the respective odd semesters (III & V) as per the Autonomous Academic Regulations for Bachelor of Engineering (B.E) of Dr. AIT. Further the student shall satisfy the course equivalence between the two autonomous curricula. Otherwise they will have to register and complete the additional courses to become eligible for the award of degree under Autonomous Program of Dr.AIT.
- Students seeking readmission shall be free from malpractice issues.

9.4. Temporary withdrawal from the Program:

(a) A student shall be permitted to withdraw temporarily from the program on grounds like, prolonged illness, calamity in the family or any other serious happening. The withdrawal shall be for periods which are integral multiples of a semester provided:

(i) The student shall present the facts to the Institute within 6 weeks from the date he/she has last attended the classes stating fully the reasons for such a withdrawal, together with supporting documents and endorsement of his/her parent or guardian.

(ii) The student shall not have any dues to the Institute.

(iii) A student availing temporary withdrawal from the programme of study under the above provision shall be required to pay such fees and/or charges as may be fixed by the Institute at the time of reporting to the Institute to continue the Program. The fees/ charges once paid shall not be refunded.

(iv). A student shall be entitled to avail the temporary withdrawal facility only once during his/her studentship of the Program at the Institute. The withdrawal period shall be such that the candidate can complete the Program requirement (175 credits for students admitted in I year and 135 credits for Lateral entry students) for PG (88 credits for M.Tech students , 100 credits for MBA and 100 credits for MCA within the time limits specified by the Institute. However, any other permissible concession requested by the concerned student shall have to be at the discretion of the Academic Council of the Institute.

9.5. Readmission

Students of Dr.AIT under autonomy seeking readmission as a repeater to any semester are permitted during the entire Program subject to the following:

- Complete rejection of the result of the semester to which readmission is sought.
- Temporary withdrawal from the program (refer to section no 9.c).

9.6 Termination from the Program:

A student shall be required to withdraw from the programme and leave the College on the following grounds:

- (a) Failure to secure $CGPA \geq 5.00$ on three consecutive occasions to lead the student being asked to discontinue the programme and leave the College. However,
- Failure to secure a $CGPA \geq 5.00$ at the end of any semester for the first time, to attract warning before approval of the student to continue in the following semester (on probation).
 - There shall be a provision for the rejection of total performance of a semester and re-registration for the semester. This shall be done only once in the entire course of studies.
- (b) Absence from classes for more than six weeks at a time in a semester without leave of absence being granted by the competent Authority.
- (c) Failure to meet the standards of discipline as prescribed by the College from time to time.

9.7 Students' Feedback:

- a) The college collects the feedback from students on their course work and various academic activities conducted. The feedback is obtained on-line from the students at regular intervals maintaining confidentiality.
- b) The feedback received from the students is reviewed/discussed by a committee constituted for the purpose and necessary corrective measures are taken.

(9.8) Programme Completion:

(a) B.E. Programmes:

A student shall be considered to have completed the B.E. Program successfully if he/she earns a total of 175 credits if admitted to I year and 135 credits if admitted to II year under Lateral entry, provided the following mandatory requirements are fulfilled:

Additional mandatory Requirement For awarding Be Degree (AICTE Activity Points):

A student shall earn 2 credits by actively involving in co-curricular and extra-curricular activities as per the guidelines issued by the Institution from time to time. On getting minimum 100 AICTE activity points the student passes the course and earns the two credits which shall not be counted for the calculation of CGPA but mandatory for the award of the Degree. For the students admitted under lateral entry scheme the 2 credits shall be considered to be earned on getting 75 AICTE activity points. Students transferred from other Universities to fifth semester are required to earn 50 AICTE Activity Points from the year of entry to Dr.AIT. The students are required to keep a file containing documentary proofs of activities done by him/her attested by the Mentor and HOD. The AICTE activity points requirements are given in Table 20.

Table 20: The activity Point requirement for UG Degree (Regular/ Lateral entry) students

Level of entry in degree course	Total Years for Points	Minimum Points
1 st Year Regular	1 st to 4 th Year	100
2 nd Year (3rd Sem.) through lateral entry or transfer from other Institutions	2 nd to 4 th year	75
Students transferred from other Universities to fifth semester at Dr AIT	3 rd to 4 th year	50

- The student may choose any activities as per their liking in order to earn the AICTE Activity points. Reference: AICTE%20Internship%20Policy.pdf
- These activities can be spread over the years, as per convenience of the student.
- Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.
- The Activity Points earned shall be reflected on the student's eight semester Grade Card.
- In case a student fails to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. The student shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

(b)PG – M.Tech/MBA/MCA Programmes:

- (i) **M.Tech Programme:** A student shall be considered to have completed the M.Tech Programme successfully if he/she earns a total of 88 credits.
- (ii) **MBA Programme:** A student shall be considered to have completed the MBA Programme successfully if he/she earns a total of 100 credits.
- (iii) **MCA Programme:** A student shall be considered to have completed the MCA Programme successfully if he/she earns a total of 100 credits if admitted to I year.

9.9. Recommendations for Degree Award:

(a)The College forwards its recommendations to the University in respect of students qualifying for UG/PG/ Research Degree Awards based on their success in the examinations/adjudication of theses as the case shall be after receiving approval from the Authorities/ Bodies of the College concerned.

(b) The Autonomous College ensures that such student as in (a) has fulfilled all the requirements for the Degree Award.

(c) Only those students recommended for the Degree Award shall be entitled to receive the relevant Provisional Certificates/Transcripts from the College at this stage.

(9.10) Award of B.E(Honours) /Minor Engineering for UG Engineering students

As per the AICTE and VTU guidelines, UG students can acquire additional 20 credits and obtain Honours/Minor in a specialization. For its implementation, following regulations shall be followed.

(a) B. E (Honours)

- The B. E (Honours) registration shall be along with the registration of the 5th semester.
- All B. E students without any backlog courses with CGPA of 9.0 at the end of 4th Sem are eligible to register for B.E (Honours).
- If a student fails in any course including the course chosen for B. E (Honours), he/she shall not be eligible to continue the B.E(Honours). However, the additional credits so far earned by the student shall be included in the grade card but shall not be considered in calculating the CGPA.
- The student shall earn additional 20 credits to be eligible for the award of B.E(Honours) Degree.
- Out of the 20 Credits, 12 credits shall be earned by undergoing minimum three specified B. E (Honours) Elective courses of the respective stream. Credits for the B. E (Honours) Elective courses are deemed to be earned only on getting at least a grade 'C' or better in the composite evaluation. A student shall not be permitted to select the normal elective courses of the respective B. E programs for attaining the credit requirements of B. E(Honours). The remaining 8 credits could be acquired through two MOOCs of the respective streams recommended by the Board of studies and approved by the Academic Council
- The assessment of the courses other than MOOCs and earning of credits shall be as per section 7. The assessment and certification of the MOOCs shall be as per the prescribed norms of the MOOCs. The candidate shall produce the certification issued by the MOOCs conducting agency in proof of credit attainment.
- The institutions offering B. E (Honours) programs shall not charge any additional fee from the students.
- However, their mandatory CGPA at the end of eighth semester shall be 9.0 or higher to become eligible for the award of B. Tech (Honours).
- B. E (Honours) Degree shall be issued by the University to the students who fulfil all the academic eligibility requirements for the B. E and B. E (Honours) programs.

(b) Minor in Engineering.

- The Minor in Engineering registration shall be along with the registration of the 5th semester.
- All B.E. students without any backlog courses with CGPA of 8.0 at the end of 4th Sem from any department are eligible to apply for Minor Engineering from any department other than the parent department.
- If a student fails in any course of the minor, he/she shall not be eligible to continue the B.E Minor. However, the additional credits and grades thus far earned by the student shall be included in the grade card but shall not be considered in calculating the CGPA.
- The student shall earn additional 20 credits to be eligible for the award of B. E Degree with Minor Engineering.
- Out of the 20 Credits, 12 credits shall be earned by undergoing a minimum of three courses, during the specified period. The remaining 8 credits could be acquired through two MOOCs recommended by the Board of studies and approved by the Academic Council.

- Curriculum and the syllabus of the four courses shall be approved by the Board of studies and the Academic Council.
- The assessment of the courses other than MOOCs and earning of credits shall be as per section 7. The assessment and certification of the MOOCs shall be as per the prescribed norms of the MOOCs. The candidate shall produce the certification issued by the MOOCs conducting agency in proof of credit attainment.
- Under graduate Degree with minor shall be issued by the University to the students who fulfil all the academic eligibility requirements for the B. E program and Minor in Engineering.

(9.11) Graduation Ceremony:

(a) The College shall have its own annual *Graduation Ceremony* for the award of Degrees (Provisional Certificates) to the students completing the prescribed academic and other requirements in each case as per the lists recommended to the University, in prior consultation with the University and by following the provisions in the University Statutes.

(b) The Colleges institutes Prizes and Awards to meritorious students, for being given away annually at the *Graduation Ceremony*. This will greatly encourage the students to strive for excellence in their academic activities. All successful students shall receive the PDC provided:

(i) No dues to the Institute, Departments, Hostels, Library and any other institute facility.

(ii) Normal practice and disciplinary action pending against the student.

(9.12) Other Issues:

(a) **Students' Grievance Cell:** Students shall approach this Cell for any kind of academic related issues. The cell is headed by the Principal. Students can appeal to the cell immediately for needful.

(b) Conduct and Discipline:

(i) All the students of the Institute shall conduct themselves within and outside the premises of the Institute in a manner befitting the great traditions of the Institute.

(ii) The students shall not indulge in any activity which is likely to bring down the prestige of the Institute.

(iii) The students shall show due respect and courtesy to the teachers, administrators, officers, employees and others associated with the Institute and maintain cordial relationships with fellow students.

(iv) Discrimination of any form amongst student community is forbidden.

(c) **Ragging :** Ragging in any form is strictly prohibited and is considered as a serious offence as per the order of the Honorable Supreme Court of India. The following acts of omissions and commissions shall constitute gross violation of the code of conduct and are liable for invoking disciplinary measures:

(i) Ragging, lack of courtesy, discrimination of any form, indecent behaviour within and outside the Institute, wilful damage and thieving of Institute property and of fellow students, possession, consumption and distribution of alcohol and hallucinogenic drugs and narcotics, smoking, carrying arms, unruly behaviour causing disturbance to fellow students, hacking in to other's computers and cyber related crimes, examination malpractices, plagiarism, etc.

(ii) Commensurate with the gravity of the offence, the punishment includes reprimand, fine, expulsion from the hostel, debar from examinations, temporary rustication, suspension from the Institute, expulsion from the Institute and handing over the case to the law enforcing authorities of the Government.

(d) Faculty Advisor/Mentor:

Teachers shall be appointed as mentors by the respective Head of the Department for a group of students. The functions of such Mentors shall be:

(a) Monitoring the performance of students and to serve as a friend, philosopher and guide during their studentship at the institute.

(b) Advising the students on all academic matters like registration of courses, dropping of courses and/or withdrawing from courses and reporting the same to the higher authorities for further action.

(c) Assessing students' academic performance and monitoring their attendance.

(d) Advising the students regarding the number of credits to be registered in the second or subsequent semester based on their performance in first and subsequent semesters
Counseling the students on general matters, discipline and conduct and support the students by suitable recommendations wherever necessary.

(e) Making suitable arrangements to communicate regarding the issues like student's performance, disobedience, continuous absence to classes and any other matters that require the attention of their parents/guardian.



**Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY,
BENGALURU-560056**
STUDENT CODE OF CONDUCT DECLARATION

I,Son/Daughter of
..... aged about
Years got admitted to Semester
B.E/M.Tech/MBA/MCA in the academic year am fully aware of the
following provisions of the code of conduct and I shall follow them strictly during my stay in
this Institution.

1. I shall wear compulsorily my **IDENTIFY CARD** whenever I am in the Institution.
2. I shall adhere to the following **DRESS CODE**:
 - a: BOYS:** Shall not wear half pant & T-Shirts with logos, wordings etc., and will not sport long hair.
 - b: GIRLS:** I shall not wear half pant, skirt and T-shirt with logos, wordings etc., and shall not wear shorts, transparent, tight fitting and sleeveless tops.
3. I shall desist **USING MOBILE PHONE** and **if found using in the campus I permit the authorities to confiscate the same.**
4. I shall not smoke in the campus, if found smoking, the Institution authorities can take any suitable action against me.
5. I shall not indulge in any form of **ragging**. If found in the act of ragging, I shall fully abide by the decision of the Institution authorities.
6. I shall try to use public transport and conserve energy.
7. I shall not use environmentally unfriendly material like plastic bags, bottles etc. inside and outside the campus. I shall not write any slogans, draw pictures etc. on the walls of the college buildings and shall not cause any damage to the property of the college. If found doing so, the authorities can take action deemed fit against me.
8. I agree to open a Savings Bank Account in Syndicate bank, Dr.AIT Branch and operate all my financial transactions with the Institution through the Saving Bank Account only. In case I leave the Institution due to transfer to another college or for any other reason, I shall not close my Saving Bank Account until clearing all dues to the college and vice versa.
9. I shall fully abide by the rules and regulations regarding attendance requirements and Class Marks to write examination. In case of shortage I shall fully abide by the actions taken by the Institution as per the rules and regulations of the Institution and or VTU.
10. I shall fully abide by the rules and regulations set by the VTU and Institutional Academic regulation with respect to the entire examination and other academic issues. If found violating such rules and regulations I shall voluntarily accept the penalties levies on me by the authorities even to the extent of being debarred from examination or from the Institution.

11. I shall not create any noise or nuisance in or near the class rooms where the teaching is going on or in the campus.
12. In case of surrendering the seat during the course, I shall pay full tuition fee for the remaining years.
- 13. In case of violation of any of the provisions of the student code of conduct, Institution authorities can initiate any disciplinary action against me and I shall abide by the same.**

Admission Application No:

Syndicate Bank SB A/c No:

Signature of the Student

Aadhar Card No:

I have gone through the provisions of the student code of conduct from Sl. No. 1 to 13 and abide with all of them, which are laid down by the Institution and I shall ensure that my ward follow the same.

Name:

Date:

Signature of the Parent/Guardian