

# **GUDLAVALLERU ENGINEERING COLLEGE**

**Seshadri Rao Knowledge Village, Gudlavalleru**

## **Academic Regulations**

(Effective from the Academic Year 2017-18)

### **I. INTRODUCTION**

The college was established in the year 1998 and is presently offering six UG-B.Tech programs with a total intake of 1140 and six PG-M.Tech programs with a total intake of 144 besides PG – MBA with an intake of 120. The college is permanently affiliated to JNTUK, Kakinada and accredited by NAAC with ‘A’ Grade in the year 2016. All the six B.Tech programs have been accreted by NBA, CSE for five years with effect from 05-08-2013 and CE, EEE, ME, ECE & IT for three academic years respectively 2016-17, 2017-18 & 2018-19 i.e., up to 30-06-2019. All these programs except Civil Engineering were earlier accredited by NBA twice. UGC, New Delhi has conferred Autonomous status on the college for a period of six years from the academic year 2014-15.

Academic programs of the College are governed by the rules and regulations as approved by the Academic Council, which is the highest academic body of the College. R14 academic regulations have been in force from the academic year 2014-15. The revised academic regulations (R17) will be effective for the batches of students admitted into the four year undergraduate B.Tech programs and the two year Post Graduate M.Tech & MBA programs offered by the college from the academic year 2017-18 and henceforth until these regulations are revised.

### **II. PROGRAMS OFFERED**

#### **UG – B.Tech Programs:**

1. Civil Engineering (CE)
2. Electrical and Electronics Engineering (EEE)
3. Mechanical Engineering (ME)
4. Electronics and Communication Engineering (ECE)
5. Computer Science and Engineering (CSE)
6. Information Technology (IT)

#### **PG – M.Tech Programs:**

1. Structural Engineering (CE)
2. Power Electronics and Electric Drives (EEE)
3. Machine Design (ME)
4. Embedded Systems (ECE)
5. Computer Science and Engineering (CSE)
6. Computer Networks and Information Security (IT)

**PG – MBA:** Master of Business Administration

### **III. M.Tech Program**

#### **1. Duration of the Program**

The duration of the program is two academic years consisting of four semesters. However, a student is permitted to complete the course work of M.Tech program in the stipulated time frame of **FOUR** years from the date of joining.

## 2. Minimum Instruction Days

Each semester consists of a minimum of ninety instruction days.

## 3. Eligibility Criteria for Admission

The eligibility criteria for admission into first year of M.Tech Degree programs shall be as mentioned below:

- i) The candidate shall be an Indian National.
- ii) The candidate should have passed the qualifying examination B.Tech / B.E. or equivalent in appropriate discipline as decided by the Board of Studies concerned or any equivalent examination recognized by JNTUK, Kakinada on the date of admission.
- iii) Seats in each program in the College are classified into CATEGORY-A (70% of intake) and CATEGORY-B (30% of intake).

### 3.1 Category - A Seats:

These seats shall be filled by the Convener, PGECET admissions based on GATE score or PGECET Rank.

### 3.2 Category - B Seats:

These seats shall be filled by the College as per the guidelines of Andhra Pradesh State Council of Higher Education.

## 4. Course Structure:

### 4.1 Program Credits

Each specialization of the M.Tech programs is designed to have a total of 70 credits and the student shall have to complete the two year course work and earn all the 70 credits for the award of M.Tech Degree.

### 4.2 Curricular Component

The curricular components of course structure of each specialization of the M.Tech programs is given in Table-4.1:

**Table – 4.1 Curricular Components of M.Tech Programs**

Sl. No.	Course Work-Subject Area	Total no. of credits	% of Total Credits
1	Basic Sciences ( <b>BS</b> )	3	4.28
2	Humanities and Social Sciences ( <b>HSS</b> )	3	4.28
3	Professional Core ( <b>PC</b> )	25	35.72
4	Professional Electives ( <b>PE</b> )	9	12.86
5	Other (Seminar, Term Paper, Dissertation, etc.)	30	42.86

### 4.3 Course Code and Course Numbering Scheme

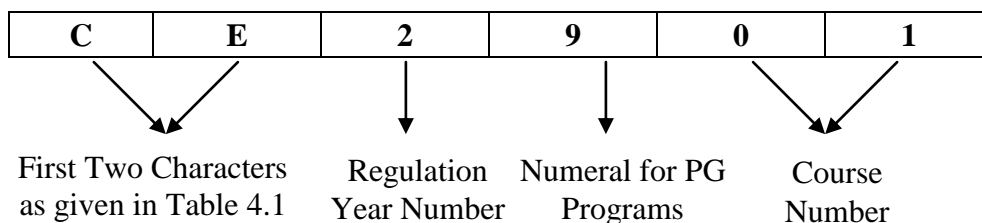
- i) Course Code consists of six characters.
- ii) The First & Second characters are as described in table 4.2.

**Table 4.2: First and second character description**

First & Second Characters	Description
MA	Subjects offered by Mathematics Department
CE	Subjects offered by Civil Engineering Department
EE	Subjects offered by Electrical and Electronics Engg. Department
ME	Subjects offered by Mechanical Engineering Department
EC	Subjects offered by Electronics and Communication Engineering Department
CS	Subjects offered by Computer Science and Engineering Department.

- iii) Third character is the numeral indicating the regulation, eg. '1' for 2014 regulations, '2' for next regulations, etc.
- iv) The Fourth character is the numeral, '5' for UG programs and '9' for PG programs.

- v) Fifth & Sixth characters represent the course number with two digits in the serial order of subjects offered by a department, '01', '02', '03' ..... '11', '12' ..... etc.



**Figure 4.1: Course Code description**

#### **4.4 Credit Norms:**

The Course Credits are broadly fixed based on the following norms.

- i) Three credits for each theory course with four lecture periods.
- ii) Two credits for each laboratory course with four periods.
- iii) Two credit for a seminar.
- iv) Two credits for term paper.
- v) Twenty Six credits for Project work dissertation and Viva-Voce.

### **5. Medium of Instruction**

The medium of instruction and examination is English.

### **6. Syllabus**

As approved by the Board of Studies concerned and the Academic Council.

### **7. Attendance Regulations**

- 7.1 A student shall be eligible to appear for End Semester Examinations if he acquires a minimum of 75% of attendance in aggregate of all the subjects.
- 7.2 Condoning of shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester will be considered for genuine reasons such as medical grounds and participation in co-curricular and extra-curricular activities and shall be granted only after approval by a committee duly appointed by the college. Student should submit application for medical leave along with medical certificate from a registered medical practitioner within three days from reporting to the class work after the expiry of the medical leave. In case of participation in co-curricular and extra-curricular activities, either in the college or other colleges, students must take prior written permission from HoD concerned and should also submit the certificate of participation from the organizer of the event within three days after the completion of the event. Only such cases will be considered for condoning attendance shortage.
- 7.3 A student shall be eligible to claim for condonation of attendance shortage only once during the two years (four semesters) course work.
- 7.4 A student will not be promoted to the next semester unless he satisfies the attendance requirement of the current semester. He may seek re-admission for that semester when offered next.
- 7.5 **Shortage of Attendance below 65% in aggregate shall in NO case be condoned.**
- 7.6 Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examination of that semester and their registration shall stand cancelled.
- 7.7 A fee stipulated by the college shall be payable towards condoning attendance shortage.

### **8. Examinations and Scheme of Evaluation**

#### **8.1 Theory Courses:**

Each theory course shall be evaluated for a total of 100 marks, consisting of 40 marks for internal assessment and 60 marks for semester end examination.

- i) Of 40 marks for internal assessment, 10 marks are for continuous assessment in the form of two assignments and 30 marks are based on two mid-term examinations.

- ii) Each assignment carries 10 marks and the average of two assignments shall be taken as the marks for continuous assessment.
- iii) Each mid-term examination is conducted for 40 marks with two hours duration. Each mid-term examination consists of four questions, each for 10 marks. All the questions need to be answered.
- iv) Sum of the 75% marks of better scored mid-term examination and 25% marks of less scored mid-term examination are scaled down for 30 marks.
- v) For the project based theory course, the distribution of 40 marks for internal evaluation shall be 20 marks for theory, based on two mid-term examinations and 20 marks for project. Each mid-term examination is conducted for 40 marks with two hours duration. Each mid-term examination consists of two questions, each for 20 marks, with internal choice. All the questions need to be answered. Sum of the 75% marks of better scored mid-term examination and 25% marks of less scored mid-term examination are scaled down for 20 marks.

#### **External Assessment**

- i) Semester End Examination will have 8 questions, each for 12 marks, out of which 5 questions are to be answered.
- ii) For the project based theory course, semester end examination will have three questions, each for 20 marks, with internal choice. All the questions need to be answered. There will be no external assessment for project component.

#### **8.2 Laboratory Course:**

- i) For practical subjects the distribution shall be 40 marks for Internal Evaluation and 60 marks for the End-Examinations. There shall be continuous evaluation by the internal subject teacher during the semester for 40 internal marks. Of the 40 marks for internal, 25 marks shall be for day-to-day performance (15 marks for day-to-day evaluation and 10 marks for Record) and 15 marks shall be evaluated by conducting an internal laboratory test towards the end of semester.
- ii) Semester end examination shall be conducted by an internal examiner and an external examiner for 60 marks.

#### **8.3 Seminar / Term Paper:**

- i) For seminar / term paper, a student under the supervision of a faculty member, shall collect the literature on an advanced topic related to his specialization and critically review the literature and submit it to the department in a report form towards the end of semester and shall make an oral presentation before the Departmental Review Committee consisting of the supervisor and a senior faculty member / Head of the Department. There shall be an internal evaluation for 100 marks in the form of viva-voce examination and assessment of report and its presentation. There will be NO external evaluation.
- ii) If a candidate fails to secure the minimum marks prescribed for successful completion, he has to re-register by paying the prescribed fee at the beginning of subsequent semester(s). He has to submit a fresh report towards the end of that semester and appear for evaluation by the committee.

#### **8.4 Project work:**

Every candidate shall be required to submit a thesis or dissertation on a topic approved by the Project Review Committee.

- i) A Project Review Committee (PRC) shall be constituted for each specialization with Head of the Department as Chairman and two other senior faculty members.
- ii) Registration of Project Work: A candidate who has been promoted to 3<sup>rd</sup> semester shall be eligible to register for the project work.
- iii) The eligible candidate can choose his project supervisor and submit the title, objective, abstract and plan of action of the proposed project work to the department for approval by the PRC. The candidate whose proposal is approved by the PRC shall register for the

project work. The minimum duration of project work will be 36 weeks from the date of registration.

- iv) If a candidate wishes to change his supervisor or topic of the project, he can do so with the approval of the PRC. In case of such changes, the candidate has to register afresh.
- v) There shall be three reviews on the progress of the project work by the PRC with an interval of 12 weeks. The candidate needs to submit a report on the progress of his work and present it before the PRC for assessment. The PRC may suggest for an extension of date of submission of dissertation if the progress of work is not satisfactory or absent himself for the review.
- vi) A candidate who has passed all the theory, laboratory, seminar and comprehensive viva-voce examinations and shown satisfactory progress of project work is permitted to submit the dissertation after 36 weeks from the date of registration.
- vii) If a candidate fails to submit the dissertation by the end of the 4<sup>th</sup> semester, he has to take the permission for an extension by paying the semester(s) tuition fee.
- viii) Three copies of the Project Thesis certified by the supervisor shall be submitted to the Department.
- ix) Project evaluation and Viva-Voce examination is conducted at the end of 4<sup>th</sup> semester by a committee consisting of Project Supervisor, senior faculty of the department, HoD and an External Examiner nominated by the Chief Controller of Examinations out of a panel of three examiners suggested by the department.

The following grades are awarded for the project work:

- i. Excellent
- ii. Very Good
- iii. Good
- iv. Satisfactory
- v. Unsatisfactory

The Grade “unsatisfactory” is treated as Fail. Failed Students should take supplementary examination after making required modifications, if any, in the dissertation with a minimum gap of 8 weeks by paying the required examination fee.

## 9. Criteria for Passing a Course and Award of Grades:

### 9.1 Criteria for Passing a Course:

- i) A candidate shall be declared to have passed in individual theory/ project based / laboratory course, if he secures a minimum of 50% aggregate marks (internal & semester end examination marks put together), subject to securing a minimum of 40% marks in the semester end examination.
- ii) The candidate shall be declared to have passed in seminar / term paper viva-voce if he secures 50% marks.
- iii) The candidate shall be declared to have successfully completed the project work if he secures a minimum of ‘satisfactory’ grade in the project evaluation and viva-voce examination.
- iv) On passing a course of a program, the student shall earn assigned credits in that course.

### 9.2 Method of Awarding Letter Grades and Grade Points for a Course:

A letter grade and grade points will be awarded to a student in each course based on his performance as per the grading system given below.

Theory/ Elective Course (%)	Laboratory/ Seminar / Term Paper/ Project Dissertation (%)	Grade Points	Letter Grade
≥ 90	≥ 90	10	O (Outstanding)
≥ 80 & < 90	≥ 80 & < 90	9	A+ (Excellent)
≥ 70 & < 80	≥ 70 & < 80	8	A (Very Good)
≥ 60 & < 70	≥ 60 & < 70	7	B+ (Good)

$\geq 50$ & $< 60$	$\geq 50$ & $< 60$	6	B (Above Average)
$< 50$	$< 50$	0	F (Fail)

### 9.3 Calculation of Semester Grade Point Average (SGPA)\* for semester:

The performance of each student at the end of the each semester is indicated in terms of SGPA. The SGPA is calculated as given below:

$$\text{SGPA} = \frac{\sum(CR \times GP)}{\sum CR} \text{ for each semester.}$$

where CR = Credits of a course

GP = Grade Points awarded for a course

\* SGPA is calculated for a candidate who passed all the courses in that semester.

### 9.4 Eligibility for Award of M.Tech Degree:

A student will be declared eligible for the award of the M. Tech. Degree if he fulfills the following academic regulations.

- Pursued a course of study for not less than two academic years and not more than four academic years.
- Registered for prescribed **70** credits and secured **70** credits.
- Students, who fail to complete their Two years Course of study within Four years or fail to acquire the prescribed **70** Credits for the award of the degree within four academic years from the year of their admission shall forfeit their seat in M. Tech course and their admission shall stand cancelled.

### 9.5 Calculation of Cumulative Grade Point Average (CGPA)\* for Entire Program:

The CGPA is calculated as given below:

$$\text{CGPA} = \frac{\sum(CR \times GP)}{\sum CR} \text{ for entire program.}$$

where CR = Credits of a course

GP = Grade points awarded for a course

\* CGPA is calculated for a candidate who passed all the prescribed courses excluding project work.

### 9.6 Award of Division:

After satisfying the requirements prescribed for the completion of the program, the student shall be eligible for the award of M. Tech Degree and shall be placed in one of the following grades:

CGPA	Class
$\geq 7.5$	First Class with Distinction
$\geq 6.5$ & $< 7.5$	First Class
$\geq 6.0$ & $< 6.5$	Second Class

## 10. Supplementary Examinations

- Supplementary examinations will be conducted once in a year along with regular examinations.

- ii) Semester end supplementary examinations shall be conducted till next regulation comes into force for that semester after the conduct of the last set of regular examinations under the present regulation.
- iii) Thereafter supplementary examinations will be conducted in the equivalent courses as decided by the Board of Studies concerned.

## **11. Revaluation**

- i) Students can submit the applications for revaluation, along with the prescribed fee receipt for revaluation of his answer script(s) of theory course(s) as per the notification issued by the Controller of Examinations.
- ii) The Controller of Examinations shall arrange for revaluation of such answer script(s).
- iii) An external examiner, other than the first examiner, shall reevaluate the answer script(s).
- iv) If the variation in marks of two evaluations is less than 15% of total marks, the best mark of two evaluations shall be taken into consideration.
- v) If the variation in marks of two evaluations is more than 15% of total marks, there shall be third evaluation by an examiner other than the first two examiners. The best marks of two evaluations (which are nearer) shall be taken into consideration.

## **12. Readmission Criteria**

A candidate, who is detained in a semester due to lack of attendance has to obtain written permission from the Principal for readmission into the same semester after duly fulfilling the required norms stipulated by the college and by paying the required tuition fee and special fee in addition to paying an administrative fee of Rs. 1,000/-.

## **13. Break in Study**

Student, who discontinues the studies for what-so-ever reason, can get readmission into appropriate semester of M.Tech program only with the prior permission of the Principal of the College, provided such candidate shall follow the transitory regulations applicable to the batch he joins. An administrative fee of Rs.2,000/- per each year of break in study in addition to the prescribed tuition and special fees should be paid by the candidate to condone his break in study.

## **14. Transitory Regulations**

A candidate, who is detained or discontinued in a semester, on readmission shall be required to do all the courses in the curriculum prescribed for the batch of students in which the student joins subsequently. However, exemption will be given to those candidates who have already passed such courses in the earlier semester(s) he was originally admitted into and he will be offered substitute subjects in place of them as decided by the Board of Studies. However, the decision of the Board of Studies will be final.

## **15. Withholding of Results**

If the student has not paid the dues, if any, to the College or if any case of indiscipline is pending against him, the result of the student will be withheld. His degree will be withheld in such cases.

## **16. Malpractices**

- i) The Principal shall refer the cases of malpractices in internal assessment tests and semester end examinations to a malpractice enquiry committee constituted by him for the purpose. Such committee shall follow the approved levels of punishment. The Principal shall take necessary action against the erring students based on the recommendations of the committee.
- ii) Any action by the candidate trying to get undue advantage in the performance or trying to help another, or derive the same through unfair means is punishable according to the provisions contained hereunder.

**Malpractice Provisions:**

<b>Sl. No.</b>	<b>Nature of Malpractices / Improper conduct</b>	<b>Punishment</b>
1 (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the candidate which can be used as an aid in the subject of the examination.)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through Cell phones with any candidates or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the candidates involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the candidate is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that semester / year. The hall ticket of the candidate is to be cancelled and sent to the university.
3	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate who has been impersonated shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for the examinations of the remaining subjects of that semester/ year. The candidate is also debarred from class work and all university examinations for two consecutive semesters. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the impostor is an outsider, he will be handed over to the police and a case is registered against him.
4	Smuggles the Answer book or takes out or arranges to send out the question paper during the examination or answer book during or after the examination.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining



		examinations of the subjects of that semester / year. The candidate is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of performance in that subject.
6	Refuses to obey the orders of the Chief Superintendent /Asst.-Superintendent/ any officer on duty or misbehaves or creates disturbance of any kind in or around the examination hall or organizes a walkout or instigates others to walkout or threatens the officer-in-charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the Officer-in-charge or any person on duty in or outside the examination hall of any of his relations or indulges in any other act of misconduct or mischief which results in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the Officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/ year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that semester/ year. The candidate is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that

		subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that semester/ year. The candidate is also debarred and forfeits the seat.
9	If student of the college who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that semester/ year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the college will be handed over to the police and a police case is registered against them.
10	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/ year.
11	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/ year examinations.
12	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the university for future action toward suitable punishment.	

### Malpractices identified at spot centre during valuation

The following procedure is to be followed in the case of malpractice cases detected during valuation, scrutiny etc. at spot centre.

- I. A notice is to be served to the candidate(s) involved **(i)** through the Principal of the college concerned, **(ii)** to the candidate(s) to his college address and **(iii)** to the candidate(s) to his permanent address regarding the malpractice.
- II. A committee consisting of the following is to be constituted at spot centre to process such malpractice cases and the recommendations of the malpractice committee are to be sent to the university.
  1. Principal Chairman
  2. Dean Academic Affairs Member
  3. Chief examiner of that subject Member
  4. Controller of Examinations Convener
- a. The involvement of the staff, who are in charge of conducting examinations, valuing examination papers and preparing / keeping records of documents related to the examinations in such acts (inclusive of providing incorrect or misleading information) that infringe upon the course of natural justice to one and all concerned at the examination shall be viewed seriously and appropriate disciplinary action will be taken after thorough enquiry.

## 17. Other Matters

- i) Physically challenged candidates who have availed additional examination time and a scribe during their BE / B.Tech or equivalent examinations will be given similar concessions on production of relevant proof/documents. Students who are suffering from contagious diseases are not allowed to appear either for internal or semester end examinations.
- ii) The students who participated in coaching / tournaments held at State / National / International levels through University / Indian Olympic Association during semester end external examination period will be promoted to subsequent semesters as per the guidelines of University Grants Commission Letter No. F.1-5/88 (SPE/PES), dated 18-08-1994.
- iii) The Principal shall deal in an appropriate manner with any academic problem which is not covered under these rules and regulations, in consultation with the Heads of the Departments and subsequently such actions shall be placed before the Academic Council for ratification. Any emergency modification of regulation, approved in the meetings of the Heads of the Departments shall be reported to the Academic Council for ratification.

**18. General**

- i) The Academic Council may, from time to time, revise, amend or change the regulations, schemes of examination and /or syllabi.
- ii) The academic regulations should be read as a whole for the purpose of any interpretation.
- iii) In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Chairman of the Academic Council is final.
- iv) Wherever the word he, him or his occurs, it will also include she, her and hers.

\* \* \*