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## THE MASTER OF TECHNOLOGY COURSE IN ENGINEERING

(Full Time / Part Time)

### OM 1 TITLE OF THE COURSE

**OM 1.1** The Course shall be called Master of Technology Course, abbreviated as M.Tech. (Subject of Specialization)

### OM 2 DURATION OF THE COURSE

**OM 2.1** There shall be two categories:

- 1) Full Time Course &
- 2) Part Time Course

#### OM 2.2 Full Time Course:

- a) The course shall extend over a period of four semesters of total duration of 24 months.
- b) Each semester shall have the following schedule:

**First Semester:** 23 weeks duration

· 16 weeks course work +7 weeks of (Preparation +Examination+ Vacation)

**Second Semester:** 21 weeks duration

· 16 weeks course work +5 weeks of (Preparation +Examination+ Vacation)

· Project work(Phase-I)-6 weeks

**Third Semester:** 21 weeks duration

· 16 weeks of course work +5 weeks [project work(Phase-II)+ Examination+Vacation]

**Fourth Semester:** 26 weeks duration- Project work (Phase-III)

(Amended and approved in 73<sup>rd</sup> Executive Council resolution no. 3.2.1 dated 23.05.2008)

#### OM 2.3 Part Time Course:

- (a) The course shall extend over 6 semesters of total duration of 36 months.
- (b) Each semester shall be of the duration equivalent to that of the semester for full time students, inclusive of teaching, preparation for examination and vacation.



- (c) First, second, third & fourth semester shall comprise of course work and the fifth and sixth semester shall be entirely devoted to Industrial Training wherever applicable and dissertation work.
- (d) The candidate shall register during first and third semesters the subject prescribed for first semester of a full time course and during second and fourth semesters the subjects prescribed for second semester of a full time course.
- (e) The candidate shall register for a maximum of three subjects per semester.

**OM 2.4** A Full Time candidate shall be allowed a maximum duration of eight semesters from the first semester of admission to become eligible for the award of Master's Degree, failing which he/she may register once again as a fresh candidate.

**OM. 2.5** A Part Time candidate shall be allowed a maximum of 12 semesters duration from the first semester of admission to become eligible for the award of Master's Degree, failing which he/she may register once again as a fresh candidate.

**OM 2.6** The Calendar of events in respect of the course shall be fixed by the University from time to time.

### **OM 3 ELIGIBILITY FOR ADMISSION**

**OM 3.1** Admission to the Master of Technology Course shall be open to all the candidates who have passed B.E. / B.Tech. Examinations (in relevant field) of VTU or any other University / Institution or any other examinations recognized as equivalent thereto

**OM 3.1 (a)** AMIE qualification in respective branches shall be equivalent to B.E./B.Tech. Courses of VTU for admission to M.Tech. However, the candidate seeking admission to M.Tech. courses on the basis of AMIE shall also take the Common Entrance Test.

**OM 3.2** Admission to M.Tech. Course shall be open to the candidates who have passed the prescribed qualifying examinations with not less than 50% of the marks in the aggregate of all the years of the degree examinations. However, in the case of candidates belonging to SC/ST and Group I, the aggregate percentage of marks in the qualifying examinations shall not be less than 45%.

**OM3.3** There shall be an Entrance Examination for admission to all the PG Courses. There shall be an Admission Committee for PG Course in each College for each branch of PG studies consisting of the Principal

of the College who shall be the Chairman, Head of the concerned Department, one senior staff member of the concerned Department and one Nominee of VTU as its members. The Chairman shall obtain from the VTU the nomination of its member. The Admission Committee shall hold the concerned Examination and shall also conduct the interviews of the candidates.

**OM 3.4** Ranking shall be prepared by taking into consideration the performance of the Candidates in the entrance examination, the percentage of marks obtained by them in the qualifying examination and their performance in the interview, and accordingly admission shall be made in the order of merit.

**OM 3.5** The candidates, who have qualified in the GATE Examination for the appropriate branch of engineering, shall be given priority. They shall be exempt from taking Entrance Examination.

**OM 3.6** If sufficient number candidates qualified in GATE Examination are not available such seats shall be filled from amongst the candidates appeared for Entrance Examination in the order of merit.

**OM 3.7** The maximum number of seats under various categories (regular, sponsored candidates and SC/ST) shall be as sanctioned by the AICTE, State Government and VTU, from time to time.

**OM 3.8** Subject to the provisions of OM 3.1 and OM 3.2, members of the Teaching/Research Staff/Teaching Assistants working in any Engineering College recognized by AICTE either in the State of Karnataka or outside and who have put in a minimum of three years of teaching experience on full-time basis in Engineering Colleges, Polytechnic institutions / any other institutions imparting Engineering education shall be eligible for admission to PG Courses under sponsored quota, if they are sponsored by the respective Institutions / DTE. Where sufficient number of such candidates is not available, candidates with minimum two years of teaching experience may be allowed to the course against sponsored quota.

**OM 3.9** Subject to the provisions of OM3.1 and OM3.2 members working in the State Government / Central Government / Quasi Government Organizations / Public Sector Industries / Reputed Private Industries, who have put in a minimum of three years of working experience and are sponsored by the concerned Organizations shall also be eligible to seek admissions to PG Courses against sponsored quota.



**OM 3.10** The Engineering graduates other than the graduates of any of the Universities of Karnataka State shall have to obtain Eligibility Certificate from the VTU to seek admission to P.G. course in any of the colleges affiliated to VTU.

**OM 3.11** Part time students whose place of working is within radial distance of 40 km from the institution where they seek admission shall take admission for the course under the regulation OM 3.8 or OM3.9.

**OM 3.12** Admission to M.Tech. course shall be open under lateral entry scheme for candidates who have completed one year PG Diploma Course of VTU or equivalent course in that branch in which he / she is seeking admission and satisfies all other eligibility criteria for admission to the regular M.Tech. Course.(Amended as per 65<sup>th</sup> Executive Council resolution No. 3.14 dated 30.03.2007)

#### **OM 4 ATTENDANCE REQUIREMENT**

**OM 4.1** Each course of semester shall be treated as a separate unit for calculation of the attendance.

**OM 4.2** Each semester is considered as a unit and the candidate has to put in a minimum attendance of 85% in each subject with a provision of condonation of 10% of the attendance by the Vice-Chancellor on the specific recommendation of the Principal of the college where the candidate is studying, showing some reasonable cause such as medical grounds, participation in University level sports, cultural activities, seminars, workshops, paper presentation, etc.(Amended as per 92<sup>nd</sup> Executive Council resolution No. 2.2.2 dated 20-12-2010)

**OM 4.3** A candidate, who does not satisfy the attendance requirement as mentioned above shall not be eligible to appear for the Examination of that semester and shall be required to repeat that semester along with regular students during the subsequent year.

**OM 4.4** If a candidate, for any reason, discontinues the course in the middle he/she may be permitted to register to continue the course along with subsequent batch, subject to the condition that he/she shall complete the class work, laboratory work and seminar including the submission of dissertation within maximum stipulated period. Such candidate shall not be eligible to be considered for the award of rank.

**OM 4.5** Principals of the concerned Colleges shall notify regularly, the list of such candidates who fall short of attendance.

**OM 4.6** The list of the candidates falling short of attendance shall be sent to the University at least one week prior to the commencement of the examination.

#### **OM 5 INTERNAL ASSESSMENT**

**OM 5.1** A candidate shall obtain not less than 50% of the maximum marks prescribed for the Internal Assessment of each subject, including seminars.

**OM 5.2** Internal Assessment Marks shall be based on assignments, tests, oral examinations and seminar conducted in respective subjects (minimum of two tests are compulsory).

**OM 5.3** Candidates obtaining less than 50% of the Internal Assessment marks in any subject shall not be eligible to appear for the examination in that subject(s). Only in such cases, the Head of the Department shall arrange for the improvement of Internal Assessment marks in the subject(s) in subsequent semester.

**OM 5.4** The candidates shall write the Internal Assessment Test in Blue Books which shall be maintained by the Principal / Head of the Department for at least one month after the announcement of result and available for verification as per the direction of the Registrar (Evaluation).

**OM 5.5** Every sheet of the Internal Assessment marks list shall bear the signatures of the concerned Teacher, Head of the Department and the Principal.

**OM 5.6** The Internal Assessment marks list shall be displayed on the Notice Board and corrections, if any, shall be incorporated before sending to the University.

**OM 5.7** The IA marks shall be sent well in advance before the commencement of theory examination by the Principal. No corrections of the Internal Assessment marks shall be entertained after the submission of marks list to the University.

#### **OM 6 SEMINARS**

**OM 6.1** All candidates shall present one seminar each in first and second semesters on the topics chosen from the relevant fields.

**OM 6.2** The Head of the Department shall organize for conducting of such seminars through concerned faculty member of the Department.



**OM 6.3** The Internal Assessment marks for the seminar shall be awarded by the concerned faculty member.

**OM 7 PAPER SETTING AND EVALUATION OF THEORY ANSWER PAPERS**

**OM 7.1** Question papers in theory subjects shall be set by the Examiners appointed for that purpose by the University.

**OM 7.2** There shall be double valuation of theory papers in the University Examinations. The theory Answer papers shall be valued independently by the two examiners appointed by the University.

**OM 7.3** If the difference between the marks awarded by the two Examiners is not more than 15 per cent of the maximum marks, the marks awarded to the candidate shall be the average of two evaluations.

**OM 7.4** If the difference between the marks awarded by the two Examiners is more than 15 per cent of the maximum marks, the Script shall be evaluated by a third Examiner. The average of the marks of nearest two valuations shall be considered as the marks secured by the candidate. However, if one of the three marks falls exactly midway between the other two, then the highest two marks shall be taken for averaging.

**OM 8 DISSERTATION WORK**

**OM 8.1** The topic and title of the dissertation shall be chosen by the candidate in consultation with the guide and co-guide, if any, during the second semester itself. However, modification of only the title but not the field of work may be permitted at the time of final submission of dissertation report during the fourth semester. The subject and topic of the dissertation shall be from the major field of post graduate studies of the candidate and the synopsis comprising scope and approach to the topic shall be prepared and submitted to the Registrar (Evaluation) through the Principal of the institution within 30 days from the starting of the third semester.

**OM 8.2** The dissertation work shall be carried out by each candidate independently during the third and fourth semester under the guidance of one of the faculty members of the Department in the Institution of study. If the dissertation assignment is of inter-disciplinary nature, a co-guide shall be taken from the same or any other relevant department.

**OM 8.3** If a dissertation work has to be carried out in any industry/ factory / organization, outside the campus, the permission to that effect and the name of co-guide at any of these organizations shall be intimated to the University at the beginning of third semester by the Principal of the College.

**OM 8.4** Every Candidate shall submit a report of the dissertation work duly approved by the guide and the co-guide, if any, at the end of the final semester, i.e., at the end of fourth semester in case of full time students and at the end of sixth semester in case of part time students. The dissertation work shall be countersigned by the guide, co-guide, if any, Head of the Department and Head of the Institution.

**OM 8.5** The candidate shall submit three copies of the dissertation work to the Head of the Institution. The Principal shall arrange to send two hard copies of the report to the University for valuation.

**OM 8.6** The date of submission of the dissertation may be extended up to a maximum of four academic years for full-time students and maximum of six academic years for part-time students, from the date of commencement of the first semester in which the candidate has taken admission to the course.

**OM 8.7** The dissertation shall be evaluated by two examiners - one internal examiner (guide/co-guide) and one external examiner appointed by the University. The external examiner shall preferably be from the other regions other than the one to which the candidate belongs or from outside Karnataka State. The evaluation of the dissertation shall be made independently by each examiner.

**OM 8.8** A copy of the dissertation shall be sent to each Examiner by the University for evaluation.

**OM 8.9** The examiners shall evaluate and send the marks independently to the Registrar (Evaluation).

**OM 8.10** Average of the marks awarded by the two Examiners shall be the final.

**OM 8.11** Examiners shall evaluate the dissertation normally within a period of not more than three weeks from the date of receipt of dissertation. The dissertation shall not be accepted for passing if external examiner finds that the dissertation work and the report are not up to the expected standard and the minimum passing marks cannot be awarded. The external examiner can totally reject the dissertation or ask for its modification. The examiner shall give reasons for rejection



of the dissertation or requiring its modification and where modification in the dissertation is required he / she can make suggestion for improvement of the dissertation for resubmission. In cases where modification is recommended after incorporating suggestions, the dissertation report shall be sent to the same external examiner.

If the examiner does not approve the dissertation on its re-submission, it shall be treated as rejected. After the rejection by the first external examiner, it shall be sent to a second examiner appointed by the University. If the second examiner also does not approve the dissertation, the candidate shall have to register once again for the fourth semester, in the case of full time student and sixth semester, in the case of part-time student with the University and shall submit the dissertation within the stipulated time.

**OM8.12** The candidate may also choose another topic of dissertation under a new guide, if necessary. In such an event, the report shall be submitted within four years in case of full time student and six years in case of part time student respectively from the date of admission to the course. The Examiners shall be appointed as per the norms of the University for the evaluation of dissertation.

**OM8.13** If the dissertation report is approved, as per regulation OM8.11, a *viva-voce* examination of the candidate shall be conducted by the external examiner and internal examiner / guide. The external examiner, who will be appointed by the University, shall be contacted by the Principal / Head of the Department. Internal examiner as per the direction of the University to arrive at a mutually convenient date for the conduct of *viva-voce* examination of the concerned candidate with intimation to the Registrar (Evaluation). In case one of the examiners expresses his inability to attend the *viva-voce*, the Registrar (Evaluation) shall appoint a substitute examiner in his place.

**OM8.14** The relative weightage for the evaluation of dissertation and the performance at the *viva voce* shall be as per the scheme of teaching & examination.

**OM8.15** The marks awarded by both the Examiners at the *viva voce* Examination shall be sent jointly to the University immediately after the examination.

**OM8.16** Examination fee as fixed from time to time by the University for evaluation of dissertation report and conduct of *viva voce* shall be remitted through the Head of the Institution on or before 15<sup>th</sup> of the following months; February, May, August and November of every academic year, after registering for third semester.

## **OM 9 ELIGIBILITY FOR PASSING**

**OM 9.1** There shall be University examination at the end of each semester.

**OM 9.2** The candidate shall obtain a minimum of 40% of marks in each paper in the University examination and a minimum of 50% of marks in aggregate including the Internal Assessment marks for pass in each of the theory subject / Lab.

**OM 9.3** To pass a candidate shall obtain a minimum of 50% of maximum marks separately both in Seminar and in Dissertation.

**OM 9.4** The candidate with a maximum of two backlog subjects of first year shall be eligible for taking admission to second year (III semester). However for part time candidate with one backlog subject shall be eligible for taking admission to odd semester (Amended and approved in 82<sup>nd</sup> Executive council, resolution no. 6.3 dated 03.10.2009)

**OM 9.5** The candidate has to pass in all the subjects of all semesters before the submission of thesis for *viva-voce* examination (Amended and approved in 82<sup>nd</sup> Executive council, resolution no. 6.3 dated 03.10.2009)

**OM 9.6** A candidate may at his desire reject his / her latest semester results of University examination in respect to all subjects of that semester. However, in 4<sup>th</sup> semester the rejection shall not include the Dissertation result. Rejection shall be permitted only once during the entire course. Earlier sessional marks of the rejected semester shall be retained.

If the rejection of the University examination results of the semester happens to be of an odd semester, the candidate can take admission to the immediate next even semester. However, if the rejection of the University result is of even semester, the candidate cannot take admission to the next odd semester.

**OM 9.7** Application for rejection shall be submitted to the Registrar (Evaluation) of the University, through the Principal of the college, within thirty days from the date of announcement of results.

**OM 9.8** A candidate, who opts for rejection shall be eligible for the award of class and distinction, but shall not be eligible for the award of ranks.

**OM 10 AWARD OF CLASS AND RANK**

**OM 10.1** Candidates who have passed in all the subjects of first and second semesters and the dissertation work of third and fourth semester shall be declared to have passed the course.

**OM 10.2** The class shall be awarded at each semester based on the aggregate marks of the semester obtained in the first attempt.

**OM 10.3** A candidate who secures 70% or more marks in the aggregate in the first attempt shall be declared to have passed in First class with Distinction.

**OM 10.4** A candidate who secures 60% or more marks but less than 70% marks in the aggregate in the first attempt shall be declared to have passed in First Class.

**OM 10.5** A candidate who secures 50% or more marks but less than 60% marks in the aggregate in the first attempt shall be declared to have passed in Second Class.

**OM 10.6** The class shall be awarded on the aggregate marks in the first attempt of 1<sup>st</sup> to 3<sup>rd</sup> semesters and dissertation marks in the case of full time students. In the case of part-time students, the class shall be awarded on the aggregate marks of first attempt of 1<sup>st</sup> to 5<sup>th</sup> semester and dissertation work.

**OM 10.7** There shall be three ranks in each PG course, provided the minimum full time strength is 10. The ranks shall be declared only for full time students who have passed every semester in the first attempt, on the basis of the aggregate marks of all the semesters taken together.

**OM 10.8** Candidates who have rejected as per the regulation OM9.6 or discontinued the course as per regulation OM4.4 or do not submit the dissertation report within 46 weeks (3<sup>rd</sup> and 4<sup>th</sup> semester) as per regulation OM2.2 are not eligible for award of ranks.

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