

ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಕ್ರಮಾಂಕ: ಇಡಿ 15 ಯುಟಿಟಿ 2010

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಚಿವಾಲಯ,  
ಬಹುಮಹಡಿ ಕಟ್ಟಡ,  
ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 20-8-2010

ಇಂದ  
ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿ,  
ಉನ್ನತ ಶಿಕ್ಷಣ ಇಲಾಖೆ,  
ಬೆಂಗಳೂರು - 560 001.

ಇವರಿಗೆ  
ಕುಲಸಚಿವರು,  
ತುಮಕೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ,  
ತುಮಕೂರು.

ಮಾನ್ಯರೆ,

ವಿಷಯ:- Draft regulations governing B.Sc. (Tech) in Computer Science;  
B.Sc. (Tech) in Electronics Science; B.Sc. (Tech) in  
Telecommunication Science and B.Sc. (Tech) in Electrical  
Science degree courses in Tumkur University.

ಉಲ್ಲೇಖ:- ತಮ್ಮ ಪತ್ರ ಸಂಖ್ಯೆ:ತು.ವಿ/ಎಡಿ/2009-10/3116, ದಿ: 9-2-2010.

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ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಘನತೆವೆತ್ತ ಕುಲಾಧಿಪತಿಗಳು ದಿನಾಂಕ: 13-8-2010  
ರಂದು Draft regulations governing B.Sc. (Tech) in Computer Science; B.Sc. (Tech) in  
Electronics Science; B.Sc. (Tech) in Telecommunication Science and B.Sc. (Tech) in  
Electrical Science degree courses in Tumkur University ಎಂಬ ವಿನಿಯಮಗಳಿಗೆ ಅನುಮೋದನೆ  
ನೀಡಿರುತ್ತಾರೆಂದು ತಿಳಿಸಲು ನಿರ್ದೇಶಿತನಾಗಿದ್ದೇನೆ. ಅನುಮೋದಿತ ವಿನಿಯಮದ ಪ್ರತಿಯನ್ನು  
ಇದರೊಂದಿಗೆ ಲಗತ್ತಿಸಿದೆ.

ತಮ್ಮ ನಂಬುಗೆಯ,

*Chudhi*

(ಯು.ಬಿ. ಉಳವಿ) 20/8.

ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ,

ಉನ್ನತ ಶಿಕ್ಷಣ ಇಲಾಖೆ (ವಿಶ್ವವಿದ್ಯಾನಿಲಯಗಳು)

*20/8*

2

TUMKUR UNIVERSITY

**REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF SCIENCE IN  
TECHNOLOGY**

(Framed Under Section 44 of KSU Act)

**TITLE:** These Regulations shall be called Tumkur University Regulations Governing B.Sc(Tech). Programmes.

**COMMENCEMENT:** These Regulations shall come in to force from the Academic Year 2010-11 subject to the assent of the Chancellor.

**DEFINITION:**

1. University means Tumkur University.
2. B.Sc(Tech) Programme means courses started under this Regulations.
3. Students means students admitted to any of the B.Sc(Tech) Programmes under this Regulation.
4. Fee means fee prescribed by the University for the Programmes offered under this Regulation

**PREAMBLE**

Bachelor Science and Technology is a degree of Study with applied aspects of basic Sciences. The application of Science is enumerated, so that the students will have firsthand information of the application in frontier areas. The nuances of Science and Technology in the specified field of study of Bachelor of Science (Technology) will be dealt in detail. Basic physics, mathematics and allied subjects will be studied with emphasis on applied science which converges to technology. Hence Tumkur University proposes to start B.Sc Tech the areas of

- 1) B.Sc (Tech) in Computer Science.
- 2) B.Sc (Tech) in Electronics Sciences.
- 3) B.Sc (Tech) in Electrical Sciences.
- 4) B.Sc (Tech) in Tele-Communication Sciences.

**1.0 TITLE AND DURATION OF THE COURSE**

- 1.1 The course shall be called the Bachelor of Science in Technology Course, abbreviated as BSc (Tech) with specialization in Physics, Mathematics, Electronics and Electrical Sciences.
- 1.2 The course shall be of four academic years duration divided into eight semesters, each semester having duration of **16 weeks**.
- 1.3 The calendar of events in respect of the course shall be fixed by the University from time to time.
- 1.4 The examination in all the subjects shall be conducted at the end of each semester for all the eight semesters.

  
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## 2.0

### ELIGIBILITY FOR ADMISSION

2.1 Admission to I year / I semester Bachelor of Science in Technology with the specializations as in 1.1 shall be open to the candidates who have passed the second year Pre-University or XII standard or equivalent examination recognized by the University.

2.2 In addition to 2.1, the candidate shall have secured not less than forty five percent (45%) marks in the aggregate with Physics and Mathematics as compulsory subjects, along with any one of the following subjects, namely, Chemistry, Bio-Technology, Computer Science, Biology and Electronics.

Provided that, the minimum marks for the purpose of eligibility shall be forty percent (40%) in optional subjects in case of candidates belonging to SC/ST and OBC candidates from Karnataka.

Provided further that, the candidate shall have studied and passed English as one of the subjects.

2.3 Those candidates who have passed a qualifying examination other than the PUC II examination of the Pre-University Education Board of Karnataka have to obtain eligibility certificate for seeking admission to B.Sc (Tech) Degree Course from Tumkur University, Tumkur.

## 3.0 ATTENDANCE REQUIREMENT

3.1 Each semester is considered as a unit and the candidate has to put in a minimum attendance of 75% 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.

3.2 The basis for the calculation of the attendance shall be the number of periods prescribed by the University by its calendar of events.

3.3 The students shall be informed about their attendance position periodically by the Colleges so that the students shall be cautioned to make up the shortage. The Principals of the affiliated Colleges shall submit the list of students who have been detained for shortage of attendance by the end of the semester to the Registrar (Evaluation) with a copy to the Registrar.

  
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- 3.4 A Candidate having shortage of attendance in one or more subjects shall have to repeat the whole semester and such candidates shall not be permitted to take admission to next higher semester.

Such students shall take readmission to the same semester in the subsequent academic year.

3.5 **Temporary Discontinuation of course:**

A student, who wishes to temporarily discontinue the course and continue the same subsequently, has to obtain prior permission from the University by applying through the Principal. Such students have to take readmission to the same semester/year in the subsequent academic year. However, the candidate shall complete the course as per 6.2.

4.0 **INTERNAL ASSESSMENT MARKS**

- 4.1 There shall be a maximum of 20 Internal Assessment Marks in each theory or practical paper. For seminars, the Internal Assessment marks shall be 100.

- 4.2 The Internal Assessment marks in a theory paper shall be based on two tests generally conducted at the end of 8 and 12 weeks of each semester. An additional test may be conducted for the desirous students before the end of the semester to give an opportunity to such students to improve their Internal Assessment Marks, subject to the provisions of 4.13. The test shall be answered in Blue Books with pages serially numbered. These blue books shall be kept in the custody of the Principal of the College until after one month from the date of announcement of the result by the University. These shall be made available to University authorities for verification as per the directions of the Registrar (Evaluation)/ Registrar.

- 4.3 Average of the better marks obtained from any two tests shall be the Internal Assessment Marks for the relevant subject.

- 4.4 If a candidate remains absent for all the Internal Assessment tests conducted, the Internal Assessment Marks shall be marked as A for the subject against the University Seat Number (USN) of the candidate in the marks sheet submitted to the University by the Principal of the College.

- 4.5 In the case of a Practical, the IA marks shall be based on the laboratory records and one practical test.

- 4.7 The IA marks in the case of projects and seminars in the final year shall be based on the evaluation at the end of 8<sup>th</sup> semester by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the project / seminar guide.

  
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3

  
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- 4.8 The final list, incorporating corrections (if any) of IA marks awarded to the students in the Theory/Practical/Project work/ Seminar, shall be displayed on the notice board of the College at least seven days before the closure of the semester and a certified copy of the same shall be sent by the Principals to the University Examination Section within the stipulated date. Every page of the IA marks sheet shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal.
- 4.9 Any corrections or over writing of IA marks shall bear the signature(s) of concerned Teacher(s) and in such cases the Head of the Department shall on every sheet indicate the number of corrections and attest it with his signature.
- 4.10(a) A candidate failing to secure a minimum of 50% of the IA marks (10/20) in Practical, 50% of marks in Project Work shall not be eligible for the corresponding subject(s) in the University examination.
- 4.10(b) For Seminars, the minimum requirement of IA marks shall be 40% of the maximum.
- 4.11 Such candidates as mentioned in 4.10 shall repeat the laboratory work/project work during the subsequent semester(s) and secure at least the minimum marks prescribed.
- 4.12 For theory subjects, there shall not be any minimum requirements of IA marks.
- 4.13 Improvement of IA marks shall not be allowed  
In theory subjects and in Laboratory/Workshop/Seminar where the candidate has already secured the minimum required marks.
- 4.14 IA marks of those candidates to whom 4.11 is applicable, shall be sent separately to the Registrar (Evaluation).
- 4.15 IA marks shall reach the University before the commencement of examination. After the submission of Internal Assessment marks to the University, any request for change of IA marks shall not be considered under any circumstances.

## 5.0 ELIGIBILITY FOR PASSING

### 5.1 (a) Detailed Scheme of Examination is given in Annexure 1

For a pass in a theory subject, the candidate shall secure minimum of 35% of the maximum marks prescribed in the University examination and 40% of marks in the aggregate inclusive of the IA marks.(Refer to scheme of )

### 5.1 (b) For a pass in a Practical/Project/Viva-voce examination, a candidate shall secure a minimum of 40% of the maximum marks prescribed for the University Examination in the relevant Practical/Project/Viva-voce.

  
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- 5.1 (c) For a pass in Seminar, a candidate shall secure a minimum of 40% of the maximum marks prescribed.
- 5.2 The candidates who do not satisfy the condition 5.1 shall be deemed to have failed in that subject and may reappear for the University examination in the subsequent examinations. However, the IA marks awarded to the candidate/s at first attempt in the concerned theory subject will be carried forward. In case of Practical/Projects/Seminar revised marks will be taken as per regulations OB 4.10 (a & b) and 4.11.
- 5.3 The candidate who passes a subject of a semester as per 5.1 shall not be allowed to appear for the same again, unless he/she opts for rejection of results as per 5.4, 5.5, 5.6, 5.7 & 5.8.
- 5.4 A candidate may at his desire reject his total performance of a semester (including IA marks) or he may reject the result of his performance in University examination of a semester only.  
Provided that the rejection is permitted only once during the entire course of study.
- 5.5 The candidate who desires to reject the performance as per 5.4 shall reject performance in all the subjects of the semester, irrespective of whether the candidate has passed or failed in any subject. However, the rejection of performance of 8<sup>th</sup> semester project results shall not be permitted.
- 5.6 A candidate, who desires to reject the total performance of the semester including Internal Assessment, has to take readmission for the relevant semester. Application for such readmission shall be sent to the Registrar through the Principal of College within 30 days from the date of the announcement of the results. Late submission of application shall not be accepted for any reasons. Readmission to First semester in such cases shall not be considered as fresh admission i.e., the candidate will continue to have the same University Seat Number, which was allotted earlier.
- 5.7 The candidate, who desires to reject only the results of University examination of a semester and does not desire readmission, shall be permitted to re-appear for examinations of all the subjects of the semester in the subsequent examinations. However, the IA marks obtained by the candidate in the rejected semester shall be retained. Applications for such rejection shall be sent to the Registrar (Evaluation) through the Principal of the College within 30 days from the date of announcement of the results. Late submission of applications shall not be accepted for any reasons.

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

  
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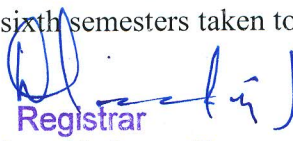
- 5.8 Such candidates who opt for rejection at final year are eligible for the award of class and distinction at the BSc (Tech) degree level, but are not eligible for the award of ranks.
- 5.9 A candidate shall be declared to have completed the course of BSc(Tech)., degree provided the candidate has undergone the stipulated course work in all eight semesters as per the regulations.
- 6.0 **MAXIMUM DURATION FOR COURSE COMPLETION:**
- 6.1 A candidate who has not obtained the eligibility for third semester after a period of three academic years from the date of first admission shall discontinue the course. However, the candidate is eligible for readmission for first year BSc (Tech). in respective College of the University and he/ she shall be allotted a different University Seat Number (USN) without any change in the year of admission in the USN in the same branch.
- 6.2 The candidate shall complete the course within a period of eight academic years from the date of first admission, failing which he/she has to discontinue the course.
- 7.0 **PROMOTION AND ELIGIBILITY FOR THE EXAMINATIONS**
- 7.1 There shall not be any restriction for promotion from an odd semester to the next even semester, provided the candidate has fulfilled the attendance requirement.
- 7.2 A candidate shall be eligible for promotion from an even semester to the next odd semester (i.e. to the next academic year) if the candidate has not failed in more than four heads of passing of the immediately preceding two semesters and has passed in all the subjects of all the still lower semester examinations. A Theory or Practical shall be treated as a head of passing.

### **Illustrations**

A candidate seeking eligibility to 3<sup>rd</sup> semester should not have failed in more than 4 heads of passing of first and second semesters taken together.

A candidate seeking eligibility to 5<sup>th</sup> semester should have passed in all the subjects of 1<sup>st</sup> and 2<sup>nd</sup> semesters and should not have failed in more than 4 heads of passing of third and fourth semesters taken together.

A candidate seeking eligibility to 7<sup>th</sup> semester should have passed in all the subjects up to 4<sup>th</sup> semester and should not have failed in more than 4 heads of passing of fifth and sixth semesters taken together.

  
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**8.0 SEMINAR AND PROJECT**

- 8.1 Seminar topic shall be selected from the emerging technical areas only.
- 8.2 Project work at 8<sup>th</sup> semester shall be completed batch wise, each batch consisting of a maximum of four candidates.
- 8.3 *Viva-voce* examination in Project Work shall be conducted batch-wise.

**9.0 AWARD OF CLASS AT SEMESTER LEVEL**

- 9.1 For the award of First Class with Distinction in a semester, the candidate shall have secured not less than 70% marks in aggregate in the first attempt and shall have passed in all subjects in one or more attempts.
- 9.2 For the award of First Class in a semester examination, the candidate shall have securing not less than 60% but less than 70% marks in aggregate in first attempt and shall have passed in all subjects in one or more attempts.
- 9.3 A candidate, who secures in a semester less than 60% of marks in aggregate in first attempt and passes in all the subjects in one or more attempts, shall be declared to have passed the semester examination in Second Class.

**10 AWARD OF CLASS AT DEGREE LEVEL**

- 10.1 The Bachelor of Science Degree in Technology shall be awarded to the candidates who have passed all the stipulated examinations from 1<sup>st</sup> to 8<sup>th</sup> semesters. However, declaration of the class of the degree shall be based on the performance of the candidate in first attempt from 5<sup>th</sup> to 8<sup>th</sup> semester examinations taken together.
- 10.2 A candidate who has passed in all subjects of 1<sup>st</sup> to 8<sup>th</sup> semester securing not less than 70% marks in aggregate in the first attempt shall be declared to be eligible for the award of the BSc (Tech). Degree in first class with distinction.
- 10.3 A candidate who has passed in all subjects of 1<sup>st</sup> to 8<sup>th</sup> semester securing not less than 60% but less than 70% of marks in aggregate shall be declared to be eligible for the award of the BSc (Tech). degree in First Class.
- 10.4 A candidate who has passed in all subjects of 1<sup>st</sup> to 8<sup>th</sup> semester securing less than 60% in aggregate shall be declared to be eligible for the award of the BSc (Tech) degree in Second Class.

  
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10.5 The marks secured by the candidate in a semester examination after rejecting the results shall also be taken as first attempt marks and shall be considered for the award of class of the Semester/Degree but not for the award of rank.

## 11.0 AWARD OF PRIZES, MEDALS & RANKS

- 11.1 For the award of Prizes and Medals, the conditions stipulated by the Donar may be considered subject to the provisions of the statutes framed by the University for such awards.
- 11.2 For award of ranks in a branch, a minimum of 10 candidates should have appeared in the 8<sup>th</sup> semester examination. The total number of ranks awarded shall be 10% of total number of candidates appeared in 8<sup>th</sup> semester or 10 whichever less.
- 11.3 A candidate shall be eligible for a rank at the time of award of degree in the course provided the candidate

has passed 1<sup>st</sup> to 8<sup>th</sup> semester in all the subjects in first attempt only and has not repeated/rejected any of the lower semesters.

## 12.0 LATERAL ENTRY TO MSc., PROGRAMME

The candidates are eligible to join M.Sc., Programme in the following areas of Specialization after the completion of four year B.Sc (Tech) course with minimum of 50% pass marks.

- MSc in Maths
- MSc in Information Systems
- MSc in Physics
- MSc in Electronics
- MSc in VLSI & Embedded Systems
- MSc in RF Communication
- MSc in Communication Systems
- MSc in Digital Systems
- MSc in Software Systems
- MSc in Computer Networking
- MSc in Mobile Computing
- MSc in Operational Research


  
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CHANCELLOR

**H. R. Bhardwaj**  
Chancellor

  
VICE CHANCELLOR  
Vice Chancellor  
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**BSc (Tech) (Scheme of Examination)****FIRST SEMESTER**

PAPER	NAME OF THE SUBJECT	EXAM-HRS	THY-HRS	MARKS FOR		
				IA	EXAM	TOTAL
1.1	Paper 1.1	3	4	20	80	100
1.2	Paper 1.2	3	4	20	80	100
1.3	Paper 1.3	3	4	20	80	100
1.4	Paper 1.4	3	4	20	80	100
1.5	Paper 1.5	3	4	20	80	100
1.6	Paper 1.6	3	3	20	80	100
<b>TOTAL:</b>		<b>18</b>	<b>23</b>	<b>120</b>	<b>480</b>	<b>600</b>

**SECOND SEMESTER**

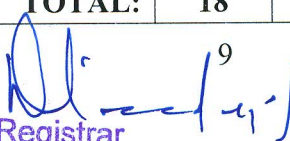
PAPER	NAME OF THE SUBJECT	EXAM-HRS	THY-HRS	MARKS FOR		
				IA	EXAM	TOTAL
2.1	Paper 2.1	3	4	20	80	100
2.2	Paper 2.2	3	4	20	80	100
2.3	Paper 2.3	3	4	20	80	100
2.4	Paper 2.4	3	4	20	80	100
2.5	Paper 2.5	3	4	20	80	100
2.6	Paper 2.6	3	3	20	80	100
<b>TOTAL:</b>		<b>18</b>	<b>23</b>	<b>120</b>	<b>480</b>	<b>600</b>

**THIRD SEMESTER**

PAPER	NAME OF THE SUBJECT	EXAM-HRS	THY-HRS	MARKS FOR		
				IA	EXAM	TOTAL
3.1	Paper 3.1	3	4	20	80	100
3.2	Paper 3.2	3	4	20	80	100
3.3	Paper 3.3	3	4	20	80	100
3.4	Paper 3.4	3	4	20	80	100
3.5	Paper 3.5	3	4	20	80	100
3.6	Paper 3.6	3	3	20	80	100
<b>TOTAL:</b>		<b>18</b>	<b>23</b>	<b>120</b>	<b>480</b>	<b>600</b>

**FOURTH SEMESTER**

PAPER	NAME OF THE SUBJECT	EXAM-HRS	THY-HRS	MARKS FOR		
				IA	EXAM	TOTAL
4.1	Paper 4.1	3	4	20	80	100
4.2	Paper 4.2	3	4	20	80	100
4.3	Paper 4.3	3	4	20	80	100
4.4	Paper 4.4	3	4	20	80	100
4.5	Paper 4.5	3	4	20	80	100
4.6	Paper 4.6	3	3	20	80	100
<b>TOTAL:</b>		<b>18</b>	<b>23</b>	<b>120</b>	<b>480</b>	<b>600</b>

  
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### FIFTH SEMESTER

PAPER	NAME OF THE SUBJECT	EXAM -HRS	THY- HRS	MARKS FOR		
				IA	EXAM	TOTAL
5.1	Paper 5.1	3	4	20	80	100
5.2	Paper 5.2	3	4	20	80	100
5.3	Paper 5.3	3	4	20	80	100
5.4	Paper 5.4	3	4	20	80	100
5.5	Paper 5.5	3	4	20	80	100
5.6	Paper 5.6	3	3	20	80	100
TOTAL:		18	23	120	480	600

### SIXTH SEMESTER

PAPER	NAME OF THE SUBJECT	EXAM -HRS	THY- HRS	MARKS FOR		
				IA	EXAM	TOTAL
6.1	Paper 6.1	3	4	20	80	100
6.2	Paper 6.2	3	4	20	80	100
6.3	Paper 6.3	3	4	20	80	100
6.4	Paper 6.4	3	4	20	80	100
6.5	Paper 6.5	3	4	20	80	100
6.6	Paper 6.6	3	3	20	80	100
TOTAL:		18	23	120	480	600

### SEVENTH SEMESTER

PAPER	NAME OF THE SUBJECT	EXAM- HRS	THY- HRS	MARKS FOR		
				IA	EXAM	TOTAL
7.1	Paper 7.1	3	4	20	80	100
7.2	Paper 7.2	3	4	20	80	100
7.3	Paper 7.3	3	4	20	80	100
7.4	Paper 7.4	3	4	20	80	100
7.5	Paper 7.5	3	4	20	80	100
7.6	Paper 7.6	3	3	20	80	100
TOTAL:		18	23	120	480	600

### EIGHTH SEMESTER

PAPER	NAME OF THE SUBJECT	DURATION OF EXAM IN HOURS	MARKS FOR IA	EXAM	TOTAL
8.1	Paper 8.1		100	200	300
TOTAL:			100	200	300

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