



# Visvesvaraya Technological University, Belagavi Karnataka State, INDIA

220201200301

## TRANSCRIPT AS PER RECORDS

Name: **ARUN TOTAD**

University Seat No: **10X16CS014**

Year of admission: 2016

Mon & Yr. of completion: 082020

Academic Program: Bachelor of Engineering

(Computer Science & Engineering)

1. Duration of the Course: 4 Years

2. Medium of Instructions: English

3. Percentage = (CGPA-0.75) \* 10

4. First class with Distinction(FCD): Greater than or equal to 70%

First Class (FC): Greater than or equal to 60 % but less than 70%

SecondClass (SC): Less than 60%

Course Code	Course Name	Credits	Grade	Mon&Yr	Attempts
<b>I Semester</b>					
15MAT11	Engineering Maths-I	4	A	042017	1
15PHY12	Engineering Physics	4	S	042017	1
15CIV13	Elements of Civil Engg. & Mechanics	4	B	042017	1
15EME14	Elements of Mechanical Engineering	4	S	042017	1
15ELE15	Basic Electrical Engineering	4	S	042017	1
15WSL16	Workshop Practice	2	A	042017	1
15PHYL17	Engg. Physics Lab.	2	S+	042017	1
15CPH18	Const. of India, Prof. Ethics & Human Rights	0	PP	042017	1
<b>II Semester</b>					
15MAT21	Engineering Maths-II	4	S	072017	1
15CHE22	Engineering Chemistry	4	B	072017	1
15PCD23	Programming in C & Data Structures	4	S	072017	1
15CED24	Computer Aided Engineering Drawing	4	S+	072017	1
15ELN25	Basic Electronics	4	A	072017	1
15CPL26	Computer Programming Lab.	2	S+	072017	1
15CHEL27	Engineering Chemistry Lab.	2	S+	072017	1
15CIV28	Environmental Studies	0	PP	072017	1
<b>III Semester</b>					
15MAT31	Engineering Mathematics - III	4	S	012018	1
15CS32	Analog and Digital Electronics	4	B	012018	1
15CS33	Data Structures and Applications	4	S	012018	1
15CS34	Computer Organization	4	B	012018	1
15CS35	Unix and Shell Programming	4	B	012018	1
15CS36	Discrete Mathematical Structures	4	A	012018	1
15CSL37	Analog and Digital Electronics Lab	2	S	012018	1
15CSL38	Data Structures Laboratory	2	S+	012018	1
<b>IV Semester</b>					
15MAT41	Engineering Mathematics-IV	4	S	072018	1
15CS42	Software Engineering	4	B	072018	1
15CS43	Design and Analysis of Algorithms	4	B	072018	1
15CS44	Microprocessors and Microcontrollers	4	B	072018	1
15CS45	Object Oriented Concepts	4	B	072018	1
15CS46	Data Communication	4	A	072018	1
15CSL47	Design and Analysis of Algorithm Laboratory	2	S+	072018	1
15CSL48	Microprocessors Laboratory	2	S	072018	1

Course Code	Course Name	Credits	Grade	Mon&Yr	Attempts
<b>V Semester</b>					
15CS51	Mgmt. & Entrepreneurship for IT Industry	4	B	012019	1
15CS52	Computer Networks	4	D	012019	1
15CS53	Database Management System	4	C	012019	1
15CS54	Automata Theory and Computability	4	A	012019	1
15CS551	Object Oriented Modeling and Design	3	A	012019	1
15CS563	Embedded Systems	3	A	012019	1
15CSL57	Computer Network Laboratory	2	S+	012019	1
15CSL58	DBMS Laboratory with Mini Project	2	S+	012019	1
<b>VI Semester</b>					
15CS61	Cryptography, Network Security and Cyber	4	S	072019	1
15CS62	Computer Graphics and Visualization	4	C	072019	1
15CS63	System Software and Compiler Design	4	B	072019	1
15CS64	Operating Systems	4	A	072019	1
15CS651	Data Mining and Data Warehousing	3	A	072019	1
15CS664	Python Application Programming	3	C	072019	1
15CSL67	System Software & Operating System Lab.	2	S+	072019	1
15CSL68	Comp. Graphics Laboratory with Mini Project	2	S+	072019	1
<b>VII Semester</b>					
15CS71	Web Technology and its applications	4	B	012020	1
15CS72	Advanced Computer Architectures	4	C	012020	1
15CS73	Machine Learning	4	B	012020	1
15CS742	Cloud Computing and its Applications	3	S	012020	1
15CS754	Storage Area Networks	3	A	012020	1
15CSL76	Machine Learning Laboratory	2	S	012020	1
15CSL77	Web Technology Laboratory with Mini Project	2	S+	012020	1
15CSP78	Project Phase - I + Seminar	2	S+	012020	1
<b>VIII Semester</b>					
15CS81	Internet of Things and Applications	4	B	082020	1
15CS82	BIG Data Analytics	4	A	082020	1
15CS834	System Modeling and Simulation	3	B	082020	1
15CS84	Internship-Professional Practice	2	S+	082020	1
15CSP85	Project Work Phase - II	6	S+	082020	1
15CSS86	Seminar	1	S+	082020	1

CGPA: 8.07

Percentage: 73.20

Class of the Degree: First Class with Distinction

Grade	S+	S	A	B	C	D	E	F
Grade Point	10	9	8	7	6	5	4	0
Marks Range	>=90	<90	<80	<70	<60	<50	<45	<40
		>=80	>=70	>=60	>=50	>=45	>=40	

PP- Mandatory non credit course



**AUTHENTIC**

*Rangaswamy B.E*

**Registrar (Evaluation)**



\*Based on First Attempt Marks of V to VIII Semesters # Number of Attempts taken to clear the semester

( \* and # not applicable to Choice Based Credit System )



# Visvesvaraya Technological University

Belagavi- 590 018

Karnataka State, INDIA

**The Visvesvaraya Technological University (VTU) has been established by the Government of Karnataka on 1<sup>st</sup> April 1998 with its headquarters at Belagavi, as per the provisions of the VTU Act 1994. For effective administration, four Regional Offices at the four Revenue Divisional Head Quarters, namely, Belagavi, Bengaluru, Kalaburgi and Mysuru have been established. VTU is a Member of Association of Commonwealth Universities.**

There are at present 205 Engineering Colleges affiliated to VTU (104 under Bengaluru Region, 54 under Mysuru Region, 30 under Belagavi Region and 17 under Kalaburgi region)

The University offers 34 graduate programs (B.E. / B.Tech. / B.Arch.), 92 Postgraduate programs (M.Tech.), and other courses like M.B.A., M.C.A., M.Sc.(Engg.) by research and Ph.D. programmes. Every year about 80,000 students take admission for undergraduate courses, 9,000 students for PG courses, 4,000 students for MCA and 5,000 students for MBA.

## **Graduate Programs**

The graduate program is of four years duration comprising eight semesters, except for Architecture, which is of five years duration. The first year of study is common to all engineering (B.E./B.Tech.) disciplines. The students have to complete the B.E./B.Tech. program within 8 years and B.Arch. program within 10 years.

## **Postgraduate program**

The postgraduate program is of two years duration comprising four semesters, except for Master of Computer Applications, which is of three years duration. The students have to complete the MBA/M.Tech. courses within 4 years and MCA course within 6 years.

**Bachelor's degree / Master Degrees shall be awarded to the candidates who have passed all the stipulated courses of all semesters and earns required number of credits specified for each program**

**The SGPA (Semester Grade Point average) and CGPA (Cumulative Grade Point Average) are calculated as cited below:**

$$SGPA = \frac{\sum (Course Credits \times Grade Points) \text{ for all courses registered in that semester}}{\sum (Course Credits) \text{ for all courses registered in that semester}}$$

$$CGPA = \frac{\sum \{(Course Credits) \times (Grade Points)\} \text{ for courses excluding those with F grade until that semester}}{\sum (Course Credits) \text{ for courses excluding those with F grade until that semester}}$$

**Conversion of CGPA into Percentage:  $P = [CGPA \text{ Earned} - 0.75] \times 10$**

CGPA at the end of Program shall be  $\geq 5.00$ .