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#### 1.1 Number of courses offered by the Institution across all programs during the year

				2020-21			
Sl. No	Program code	Program Name	Course code	Course Name	Year of introduction		
1			18MAT11	Calculus and Linear Algebra			
2	CS (UG) I		18PHY12/22	Engineering Physics	]		
3	SEM Computer Common to Science &	Commutar	18ELE13/23	Basic Electrical Engineering	]		
4		The same of the sa	18CIV14/24	Elements of Civil Engineering & Mechanics	2018		
5	all UG	Engineering	18EGDL15/25	Engineering Graphics	2016		
6	branches	Engineering	18PHYL16/26	Engineering Physics Laboratory			
7	branches		18ELEL17/27	Basic Electrical Engineering Laboratory			
8		) 1	18EGH18	Technical English-I			
9			18MAT21	Advanced Calculus & Numerical Methods			
10	CS (UG) II		18CHE12/22	Engineering Chemistry			
11	SEM	Committee	Commutan	Computer	18CPS13/23	C Programming for Problem Solving	
12	Common to	•	18ELN14/24	Basic Electronics	2018		
13	all UG	Engineering	18ME15/25	Elements of Mechanical Engineering	2018		
14	branches		18CHEL16/26	Engineering Chemistry Laboratory	]		
15	branches					18CPL17/27	C Programming Laboratory
16			18EGH28	Technical English-II			
17			18MAT31	Transform Calculus, Fourier Series And			
17			TOWATST	Numerical Techniques			
18			18CS32	Data Structures and Applications	]		
19			18CS33	Analog and Digital Electronics			
20		Computer	18CS34	Computer Organization			
21	CS (UG) III	Science &	18CS35	Software Engineering	2018		
22	SEM	Engineering-	18CS36	Discrete Mathematical Structures	2018		
23		Linginicering	18CSL37	Analog and Digital Electronics Laboratory			
24			18CSL38	Data Structures Laboratory			
25			18KVK39 /18KAK39	Vyavaharika Kannada (Kannada for communication)/Aadalitha Kannada (Kannada for Administration)			





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26			18MAT41	Complex Analysis, Probability and Statistical Methods	
27	1	l	18CS42	Design and Analysis of Algorithms	
28	1	l	18CS43	Operating Systems	İ
29	1	l F	18SC44	Microcontroller and Embedded Systems	1
30	CS (UG)	Computer	18CS45	Object Oriented Concepts	
31	IV SEM	Science &	18CS46	Data Communication	2018
32		Engineering -	18CSL47	Design and Analysis of Algorithm Laboratory	
33			18CSL48	Microcontroller and Embedded Systems Laboratory	
34			18CPC39	Constitution of India, Professional Ethics and Cyber Law	
35			18CS51	Management, Entrepreneurship for IT idustry	
36		l [	18CS52	Computer Networks and Security	
37			18CS53	Database Management System	1
38	CS (UG) V	Computer	18CS54	Automata theory and Computability	
39	SEM	Science &	18CS55	Application Development using Python	2018
40	SEW	Engineering	18CS56	Unix Programming	1
41			18CSL57	Computer Network Laboratory	1
42			18CSL58	DBMS Laboratory with mini project	1
43			18CIV59	Environmental Studies	1
44			18CS61	System Software and Compilers	
45			18CS62	Computer Graphics and Visualization	1
46			18CS63	Web Technology and its applications	1
47	CS (UG)	Computer	18CS641	Data Mining and Data Warehousing	]
48	VI SEM	Science &	18EE653	Renewable Energy Resources	2018
49	VISLIVI	Engineering	18CSL66	System Software Laboratory	1
50			18CSL67	Computer Graphics Laboratory with mini project	
51			18CSMP68	Mobile Application Development	1
52			17CS71	Web Technology and its applications	
53			17CS72	Advanced Computer Architectures	1
54			17CS73	Machine Learning	1
55	CS (LIG)	Computer	17CS742	Cloud Computing and its Applications	1
56	CS (UG) VII SEM	Science &	17CS754	Storage Area Networks	2017
57	VII SEIVI	Engineering	17CSL76	Machine Learning Laboratory	
58			17CSL77	Web Technology Laboratory with mini projec	Principal
59			17CSP78	Project Work Phase-I + Project work Seminary	THE RESERVE TO SECURITION OF THE PERSON OF T

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83			18ECL47	MICRO CONTROLLER LABORATORY	
02			18KVK /KAK49	communication)/Aadalitha Kannada (Kannada for Administration)	
82		Engineering	100000 /00 40 40	Vyavaharika Kannada (Kannada for	
81		tion	18EC46	MICRO CONTROLLER	
80	IV SEM	Communica	18EC45	SIGNALS & SYSTEMS	2018
	ECE(UG)	&		ALGEBRA	
79		Electronics	18EC44	ENGINEERING STATISTICS AND LINEAR	
78			18EC43	CONTRO SYSTEM	
77			18EC42	ANALOG CIRCUITS	
76			18MAT41	COMPLEX ANALYSIS ,PROBABILITY & STATICAL METHODS	
13			18KAK39	Vyavaharika Kannada / Aadalitha Kannada	
75	]		18KVK39/		
74	1		18ECL38	DIGITAL SYSTEM DESIGN LAB	
73			18 ECL 37	INSTRUMENTATION LAB	
	1			LAW ELECTRONIC DEVICES AND	
72		tion Engineering	18CPC39	PROFESSIONAL ETHICS AND CYBER	
72			1000000	CONSTITUTION OF INDIA	
71	III SEM	Communica	18 EC 36	POWER ELECTRONICS	2018
	ECE(UG)	&		ARCHITECTURE	
70		Electronics	18EC35	COMPUTER ORGANIZATION &	
69			18 EC 34	DIGITAL SYSTEM DESIGN	
68	]		18EC33	INSTRUMENTATION	
				ELECTRONIC DEVICES AND	
67	1		18 EC 32	Numerical techniques NETWORK THEORY	
66			18MAT31	Transform calculus, fourier series and	
65			17CSS86	Seminar	
64		Engineering	17CSP85	Project Work-II	
63	VIII SEM		17CS84	Internship/ Professional Practice	2017
62	CS (UG)	Computer Science &	17CS832	User Interface Design	2017
61			17CS81 17CS82	Internet of Things and Applications Big Data Analytics	

Principal

RAJARAJESWAR



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18ES51						
Second   S					TECHNOLOGICAL INNOVATION	
Received	85			18ES51	MANAGEMENT AND	
Second   S					ENTERPRENOUSHIP	
SECE(UG)   V SEM   ECE(UG)   SEM   V SEM   ECE(UG)   SEM	86			18EC52	DIGITAL SIGNAL PROCESSING	
SYSTEM	97		Electronics	10EC52	PRINCIPALS OF COMMUNICATION	
SEC   V SEM	07	ECEGIC)	&	10EC33	SYSTEM	
18EC56   VERILOG HDL	88			18EC54	INFORMATION THEORY AND CODING	2018
18CIV59	89		Engineering	18EC55	ELECTROMAGNETIC WAVES	
18ECL57   DIGITAL SIGNAL PROCESSING LAB	90			18EC56	VERILOG HDL	
18ECL58   VERILOG HDL LAB	91		1 [	18CIV59	ENVIRONMENTAL STUDIES	
18EC61   DIGITAL COMMUNICATION   18EC62   EMBEDDED SYSTEMS   18EC63   MICROWAVE & ANTENNAS   18EC641(PE)   OPERATING SYSTEMS   USING VERILOG   OPERATING SYSTEMS   18EC644(PE)   DIGITAL SYSTEMS USING VERILOG   OPERATING SYSTEMS   USING VERILOG   OPERATION   USING VERILOG   OPERATING SYSTEMS   USING VERILOG   OPERATION   USING VERILOG   OPERATING SYSTEMS   USING VERILOG   OPERATION   USI	92			18ECL57	DIGITAL SIGNAL PROCESSING LAB	,
18EC62   EMBEDEDED SYSTEMS   18EC63   MICROWAVE & ANTENNAS   18EC641(PE)   OPERATING SYSTEMS   18EC644(PE)   OPERATING SYSTEMS   OPERATING SYSTEMS   18EC644(PE)   OPERATING SYSTEMS   OPERATION IN JAVA   O	93			18ECL58	VERILOG HDL LAB	
18EC63   MICROWAVE & ANTENNAS	94			18EC61	DIGITAL COMMUNICATION	
Second   S	95		1 [	18EC62	EMBEDEDED SYSTEMS	
SECE(UG   OVI SEM   SEM   SECE(UG   OVI SEM   OVI SEM   SEM   SECE(UG   OVI SEM   OVI SEM   SEM   SECE(UG   OVI SEM   OVI SEM   SE	96		1 [	18EC63	MICROWAVE & ANTENNAS	
100	97		Q,	18EC641(PE)	OPERATING SYSTEMS	
VI SEM	98	ECECTIC /		18EC644(PE)	DIGITAL SYSTEMS USING VERILOG	
100	99		Communica	18CS653(OE)	PROGRAMMING IN JAVA	2018
102   18ECL66   EMBEDDED SYSTEM LABORATORY   18ECL77   COMMUNICATION LABORATORY   18ECP68   MINI PROJECT   MICROWAVE & ANTENNAS   17EC72   DIGITAL IMAGE PROCESSING   17EC73   POWER ELECTRONICS   17EC741(PE3)   MULTIMEDIA COMMUNICATION   17EC744(PE3)   CRYPTOGRAPHY   INTERNET OF THINGS AND WIRELESS   SENSOR NETWORKS   17EC7559PE4)   SATELLITE COMMUNICATION   LABORATORY   17ECL76   ADVANCE COMMUNICATION   LABORATORY   17ECL77   VLSI LABORATORY	100	VISEM	tion	18EE653(OE)	RENEWABLE ENERGY RESOURCES	-
18ECL66   EMBEDDED SYSTEM LABORATORY   18ECL77   COMMUNICATION LABORATORY   18ECL77   COMMUNICATION LABORATORY   18ECP68   MINI PROJECT   17EC71   MICROWAVE & ANTENNAS   17EC72   DIGITAL IMAGE PROCESSING   17EC73   POWER ELECTRONICS   17EC741(PE3)   MULTIMEDIA COMMUNICATION   17EC744(PE3)   CRYPTOGRAPHY   17EC752(PE4)   INTERNET OF THINGS AND WIRELESS   SENSOR NETWORKS   17EC7559PE4)   SATELLITE COMMUNICATION   2017	101		Engineering	18ME651(OE)	NON CONVENTIONAL ENERGY	
104   18ECP68   MINI PROJECT	102			18ECL66		
104	103		[	18ECL77	COMMUNICATION LABORATORY	
106   107   108   109   110   ECE(UG)   VII SEM   111   112   113   113   114   115   116   117   117   118   119   11	104			18ECP68		
107 108 109 110 VII SEM 111 112 113 17EC73 POWER ELECTRONICS 17EC741(PE3) MULTIMEDIA COMMUNICATION 17EC744(PE3) CRYPTOGRAPHY 17EC752(PE4) INTERNET OF THINGS AND WIRELESS SENSOR NETWORKS 17EC7559PE4) SATELLITE COMMUNICATION LABORATORY 17ECL76 17ECL77 VLSI LABORATORY	105			17EC71	MICROWAVE & ANTENNAS	
108 109 110 VII SEM 111 112 113 ECE(UG) VII SEM Electronics & 17EC741(PE3) MULTIMEDIA COMMUNICATION 17EC744(PE3) CRYPTOGRAPHY 17EC752(PE4) INTERNET OF THINGS AND WIRELESS SENSOR NETWORKS 17EC7559PE4) SATELLITE COMMUNICATION 17ECL76 ADVANCE COMMUNICATION LABORATORY 17ECL77 VLSI LABORATORY	106		[	17EC72	DIGITAL IMAGE PROCESSING	
109 110 ECE(UG) VII SEM 111 112 113 ECE(UG) VII SEM 17EC744(PE3) 17EC752(PE4) 17EC752(PE4) 17EC7559PE4) 17EC176 17EC177 17ECL776 17ECL77 17ECL	107		[	17EC73	POWER ELECTRONICS	
110 ECE(UG) VII SEM Communication Engineering 17EC744(PE3) CRYPTOGRAPHY  110 LTECT52(PE4) INTERNET OF THINGS AND WIRELESS SENSOR NETWORKS  111 LTECT559PE4) SATELLITE COMMUNICATION  ADVANCE COMMUNICATION LABORATORY  113 LTECT77 VLSI LABORATORY	108		F14	17EC741(PE3)	MULTIMEDIA COMMUNICATION	
110 ECE(UG) VII SEM Communica tion Engineering 17EC752(PE4) INTERNET OF THINGS AND WIRELESS SENSOR NETWORKS 111 17EC176 ADVANCE COMMUNICATION LABORATORY 17ECL77 VLSI LABORATORY	109		CONTRACTOR CONTRACTOR AND	17EC744(PE3)		
VII SEM         Confidence tion tion Engineering         17EC/32(PE4)         SENSOR NETWORKS         2017           112         17EC7559PE4)         SATELLITE COMMUNICATION ADVANCE COMMUNICATION LABORATORY         17ECL76         ADVANCE COMMUNICATION LABORATORY           113         17ECL77         VLSI LABORATORY	110	ECE(UG)	0.46800	17E0750/DEA		
111 Engineering 17EC7559PE4) SATELLITE COMMUNICATION  112 ADVANCE COMMUNICATION  LABORATORY  17ECL77 VLSI LABORATORY	110	VII SEM		1/EC/52(PE4)		2017
112 ADVANCE COMMUNICATION LABORATORY 113 17ECL77 VLSI LABORATORY	111		AND STREET STREET	17EC7559PE4)	SATELLITE COMMUNICATION	
17ECL76 LABORATORY 113 17ECL77 VLSI LABORATORY	112		Lighteening	17ECL74	ADVANCE COMMUNICATION	
113 VLSI LABORATORY	112			I/ECL/0		
				17ECL77	VLSI LAB0RATORY	
	114			17ECP 78	PROJECT WORK PHASE I	

Principal

RAJARAJESWARI COLLEGE OF ENGINEERING Ramohalli Cross, Bengaluru-74



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				WIDELESS CELLIFIAD & LTE AC	
115			17EC81	WIRELESS CELLULAR& LTE 4G	
		l_,	155.000	BROARDBAND	
116		Electronics	17EC82	FIBER OPTICS & NETWORKS	
117	ECE(UG)	&	17EC833(PE)	RADAR ENGINEERING	
118	VIII SEM	Communica	17EC835(PE)	NETWORK & CYBER SECURITY	2017
119		tion Engineering	17EC84	INTERNSHIP/PROFESSIONAL PRACTICE	
120			17ECP85	PROJECT WORK	
121			17ECS86	SEMINAR	
122			103 (4 72 1	Transform Calculus, Fourier Series And	
122		1 1	18MAT31	Numerical Techniques	
123		1 1	18EE32	Electric Circuit Analysis	
124		1 1	18EE33	Transformers and Generators	
125		Electrical &	18EE34	Analog Electronic Circuits	
126	EEE(UG)	Electronics	18EE35	Digital System Design	2018
127	III sem	Engineering	18EE36	Electrical and Electronic Measurements	2010
128		Lingineering	18EEL37	Electrical Machines Laboratory -I	
129		l 1	18EEL38	Electronics Laboratory	
127		1 1	18KVK39/	Electronics Laboratory	
130		1 1		Vyavaharika Kannada / Aadalitha Kannada	
			18KAK39	Compley Analysis Duchability and Ctalistical	
131			18MAT41	Complex Analysis, Probability and Statistical Methods	ļi.
132		l 1	18EE42	Power Generation and Economics	
133		l	18EE43	Transmission and Distribution	
134			18EE44	Electric Motor	
135	EEE(UG)-	Electrical &	18EE45	Electromagnetic Field Theory	
136	IV Sem	Electronics	18EE46	Operational Amplifiers and Linear ICs	2018
137	John Marchaell	Engineering	18EEL47	Electrical Machines Laboratory -2	
138		1 [	18EEL48	Op- amp and Linear ICs Laboratory	
139		lΓ	18MATDIP41	ADDITIONAL MATHEMATICS – II	
140			19CDI140	Constitution of India, Professional Ethics and	
CALL SALMSON			18CPH49	Cyber Law	
141			18EE51	Management and Entrepreneurship	
142			18EE52	Microcontroller	
143	EEEGIO	Electrical &	18EE53	Power Electronics	
144	EEE(UG)-	Electronics -	18EE54	Signals and Systems	2018
145 146	V Sem	Engineering	18EE55	Electrical Machine Design	2010
147			18EE56	High Voltage Engineering	ad
148			18EEL57	Microcontroller Laboratory	cipai
110			18EEL58	Power Electronics Laboratory RAJARA	FSWARI

Campus

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149			18EE61	Control Systems	
150		1 [	18EE62	Power System Analysis-1	
151			18EE63	Digital signal Processing	
152		Electrical &	18EE643	CAED(Computer Aided Electrical Drawing)	
153	EEE(UG)-	Electronics	18CV653	Occupational & Health Safety	2010
154	VI Sem		18CS653	Programming In Java	2018
155		Engineering	18ME651	Non Conventional Energy Sources	
156		[	18EEL66	Control Systems Lab	
157		1 [	18EEL67	Digital Signal Processing Lab	
158			18EEMP68	Mini Project	
159			17EE71	Power system analysis-2	
160		1 [	17EE72	Power System Protection	
161		l E	17EE73	High voltage Engineering	
162	EEE(UG)-	Electrical &	17EE742	Electrical Power Utilization	
163	VII Sem	Electronics Engineering	17EE752	Testing And Commissioning of Electrical Apparatus	2018
164			17EEL76	Power system simulation Lab	
165		I F	17EEL77	Relay & High voltage Lab	
166			17EEP78	Project Phase 1	
167			17EE81	Power system operation and control	
168			17EE82	Industrial Drives and Applications	
169	EEE(UG)- VIII Sem	Electrical & Electronics	17EE832	Operation & Maintenance of Solar Electric Systems	2018
170	viii sem	Engineering	17EE84	Internship/ Professional Practice	
171			17EEP85	Project Work Phase II	
172			17EES86	Seminar	

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173			18MAT31	Transform calculus, fourier series and	
TAR SAFERNA		l	The state of the s	Numerical techniques	1
174			18ME32	Mechanics of Materials	1
175			18ME33	Basic Thermodynamics	]
176			18ME34	Material Science	
177		[	18ME35A or	Metal cutting and forming	]
178		[	18ME35B	Metal Casting and Welding	]
179			18ME36A or	Computer Aided Machine Drawing/	
180		MECHANI	18ME36B	Mechanical Measurements and Metrology	1
181	ME(UG) (3	CAL	18MEL37A	Material Testing lab	2010
182	SEM)	ENGINEE	18MEL37B	Mechanical Measurements and Metrology lab	2018
102		RING	10) (E1 20 4	Workshop and Machine Shop Practice	1
183			18MEL38A	(Consists of Fitting, and Machining)	
184			18MEL38B	Foundry, Forging and Welding lab	1
105	1	l	1077777700/10	Vyavaharika Kannada (Kannada for	1
185			18KVK39/49	communication)/	
107	1			Aadalitha Kannada (Kannada for	1
186			18KAK39/49	Administration)	
107	1			Constitution of India, Professional Ethics and	1
187			18CPC39	Cyber Law	
188			18MAT41	Mathematics	
189			18ME42	Applied Thermodynamics	1
190		[	18ME43	Fluid Mechanics	1
191	]		18ME44	Kinematics of Machines	1
192			18ME45A	Metal cutting and forming	1
193			18ME45B	Metal Casting and Welding	
194		Ī	18ME46A or	Computer Aided Machine Drawing/	1
195		MECHANI	18ME46B	Mechanical Measurements and Metrology	i
196	MECHONA	MECHANI	18MEL47A	Material Testing lab	1
197	ME(UG) (4		18MEL47B	Mechanical Measurements and Metrology lab	2018
100	SEM)	ENGINEE -		Workshop and Machine Shop Practice	2010
198		RING	18MEL48A	(Consists of Fitting, and Machining)	
199			18MEL48B	Foundry, Forging and Welding lab	1
200		T		Vyavaharika Kannada (Kannada for	
200			18KVK49/49	communication)/	ad
201			18KAK49/49	Aadalitha Kannada (Kannada for	Principal ARAJESWARI
202			18CPH49	Constitution of India, Professional Ethics and G	

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203						
Deciding			18ME51	Management and Economics		
ME(UG) (5   CAL   18ME53   Turbo Machines   2018	204			18ME52	Design of Machine Elements I	]
201   208   209   200	205		THE PERSON NEWSCORPER LIBERTY STATE	18ME53	Dynamics of Machines	]
208	206	ME(UG) (5	CAL	18ME54	Turbo Machines	2010
18MEL57   Fluid Mechanics/Machines lab	207	SEM)	ENGINEE	18ME55	Fluid Power Engineering	] 2018
18MEL58   Energy Conversion Lab	208		RING	18ME56	Operations Management	1
18ME(1	209			18MEL57		1
18ME(1	210			18MEL58	Energy Conversion Lab	1
MECHANI   18ME63   Heat Transfer   Non-Traditional Machining   2018	211			18ME61		
MECHANI   18ME63   Heat Transfer	212			18ME62		1 1
Description   California   Ca	213		MECHANI			i I
SEM   ENGINEE   18ME653   Supply Chain Management   2018	214	ME(UG) (6	CAL			i l
RING						2018
18MEL67			Control of the second of the second			1 1
18MEMP68    Mini-project			rarvo			1
17ME71						1 1
17ME72   Fluid Power Systems   2017						
ME(UG) (7   SEM)   ME(UG) (7   SEM)   ME(UG) (7   SEM)   CAL   ENGINEE   17ME742   Tribology   Tribo		1				1 1
Design Lab   Des		1	MECHANI			i l
SEM   ENGINEE   17ME752   Fracture Mechanics   2017		ME(UG) (7	CAL			1
RING		1				2017
17MEL77   CIM Lab		52)	Commission of the Commission o			1
17MEP78			MINO			
17ME81   Operations Research   Additive Manufacturing						
ME(UG) (8   SEM)   ME(UG) (8   SEM)   ME(UG) (8   SEM)   SEM)   ME(UG) (8   SEM)   ME(U						
CV(UG)-III   238   SEM   239   240   241   242			MECHANI			
SEM   ENGINEE   17ME85   Internship / Professional Practice   2017		ME(UG) (8	CAL			
RING   17MES86   Project Phase – II   17MES86   Seminar   Transform Calculus, Fourier Series And   Numerical Techniques   18CV32   Strength of materials   18CV33   Fluid mechanics   18CV34   Building Materials & Constructions   18CV35   Basic surveying   18CV36   Engineering Geology   2018   18CVL37   Computer aided building planning and drawing   18CVL38   Building Materials testing laboratory   18MATDIP31   ADDITIONAL MATHEMATICS – I   Principal   18KVK39/   Variable 18KVK39/   RAJARAJESWARI   RAJARAJ			Contract Con			2017
17MES86   Seminar						
Transform Calculus, Fourier Series And Numerical Techniques   18CV32   Strength of materials   18CV33   Fluid mechanics   18CV34   Building Materials & Constructions   18CV35   Basic surveying   18CV35   Basic surveying   18CV36   Engineering Geology   18CVL37   Computer aided building planning and drawing   18CVL38   Building Materials testing laboratory   18MATDIP31   ADDITIONAL MATHEMATICS - I   Principal   18KVK39/   Version Techniques   18CVL38   Building Materials testing laboratory   18MATDIP31   ADDITIONAL MATHEMATICS - I   Principal   18KVK39/   Version Techniques   2018			Mino			
See See See See See See See See See Se						
234   235   236   237   CV(UG)-III   SEM   238   240   241   241   242   242   241   242				18MA131		
235   236   237   CV(UG)-III   SEM   CIVIL   ENGINEE   RING   18CV33   Fluid mechanics   18CV34   Building Materials & Constructions   18CV35   Basic surveying   2018   18CVL37   computer aided building planning and drawing   18CVL38   Building Materials testing laboratory   18MATDIP31   ADDITIONAL MATHEMATICS - I   18KVK39/   Versilon 18KVK39/   RAJARAJESWARI	234			18CV32	Strength of materials	
CIVIL   SEM   CIVIL   ENGINEE   RING   18CV34   Building Materials & Constructions   18CV35   Basic surveying   2018   18CVL37   computer aided building planning and drawing   18CVL38   Building Materials testing laboratory   18MATDIP31   ADDITIONAL MATHEMATICS - I   18KVK39/   RAJARAJESWARI	235					
237 CV(UG)-III 238 SEM 239 240 241 241 242 242 242 242 243 244 245 247 248 248 248 248 248 248 248 248 248 248	236		CIVIII			
238 SEM RING 18CV36 Engineering Geology 2018  240 241 18CVL37 computer aided building planning and drawing 18CVL38 Building Materials testing laboratory 18MATDIP31 ADDITIONAL MATHEMATICS – I 18KVK39/ Versilon 18KVK39/ RAJARAJESWARI	237	CV(UG)-III	CHOCKE TOWNS AND A			
239 240 241 241 242 RING 18CVL37 computer aided building planning and drawing 18CVL38 Building Materials testing laboratory 18MATDIP31 ADDITIONAL MATHEMATICS – I 18KVK39/ Versila 18 KVK39/ Versila 18 KVK39/ RAJARAJESWARI		The commence of the commence o	CONTROL OF THE PROPERTY.			2018
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241 18MATDIP31 ADDITIONAL MATHEMATICS – I Principal 18KVK39/			i i		Building Materials testing laboratory	
18KVK39/ W 1 1 1 K 1 (A 1 11 1 T RAJARAJESWARI			İ			Principal
			İ		DAI	ARAJESWARI
TONAN IX	242			18KAK39	Vyavaharika Kannada / Aadalitha Kannada	OF ENGINEERING

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243			18MAT41	Complex analysis,probability and statistical methods	
244			18CV42	Analysis of Determinate Structures	
245	•		18CV43	Applied Hydraulics	
246			18CV44	Concrete Technology	
247	CV(UG)-IV	CIVIL	18CV45	Advanced Surveying	
248	SEM	ENGINEE	18CV46	Water supply & treatment Engineering	2018
249		RING	18CVL47	Engineering Geology lab	
250			18CVL48	Fluid mechanics & Hydraulic machines Lab	
251			18MATDIP41	ADDITIONAL MATHEMATICS – II	
		l l		Constitution of India, Professional Ethics and	
252			18CPH49	Cyber Law	
253			18CV51	Construction Management & Entrepreneurship	
254			18CV52	Analysis of Indeterminate Structures	
255	CV(UG)-V	CIVIL	18CV53	Design of R C Structural elements	
256	SEM	ENGINEE	18CV54	Basic Geotechnical Engineering	2018
257	SLIVI	RING	18CV55	Municipal Wastewater Engineering	
258			18CV56	Highway Engineering	
259			18CVL57	Surveying Practice	
260			18CVL58	Concrete & Highway materials Lab	
261			18CV61	Design of Steel Structural elements	
262			18CV62	Applied Geotechnical Engineering	
263			18CV63	Hydrology & irrigation engineering	
264	CV(UG)-VI	CIVIL	18CV643	Alternate building material	
265	SEM	ENGINEE [	18CV645	Railway, Harbour, Tunnelling, Airports	2018
266	SEM	RING	18CV653	Occupational Health & Safety	
267			18CVL66	Software Application Lab	
268			18CVL67	Environmental Engineering LAB	
269			18CVEP68	Extensive Survey project	
270			17CV71	Municipal & Industrial waste water engineering	
271		Ī	17CV72	Design of RCC & Steel structures	
272	CV(UG)-	CIVIL	17CV73	Hydrology & irrigation engineering	
273	VII SEM	ENGINEE	17CV741	Design of bridges	2017
274	VII SEIVI	RING	17CV753	Rehabilitation & retro fitting of structures	
275			17CVL76	Environmental Engineering LAB	7 000
276		Ī	17CVL77	Computer aided detailing of structures LAB	rincipal
277			17CVP78	Project Phase 1	OF FNGINEERI

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278			17CV81	Quantity surveying & contracts management	
279		lΓ	17CV82	Design of pre stressed concrete elements	1
280	1		17CV832	Design of hydraulic structures	1
281	CV(UG)-	CIVIL	17CV833	Pavement design	1
282	VIII SEM	ENGINEE -	17CV84	Internship/professional practice	2017
283		RING	17CVP85	Project work	1
	1	l -		Seminar on current trends in engineering	1
284			17CVS86	& technology	
205			103.51.53.5	Transform Calculus, Fourier Series And	
285			18MAT31	Numerical Techniques	
286	1	1 [	18CS32	Data Structures and Applications	i
287	1	l f	18CS33	Analog and Digital Electronics	1
288	]	TC	18CS34	Computer Organization	1
289	ISE (UG)	Information	18CS35	Software Engineering	
290	III SEM	Science &	18CS36	Discrete Mathematical Structures	2018
291		Engineering	18CSL37	Analog and Digital Electronics Laboratory	1
292	]		18CSL38	Data Structures Laboratory	1
			18KVK39	Vyavaharika Kannada (Kannada for	1
293				communication)/Aadalitha Kannada (Kannada	
			/KAK39	for Administration)	
204			103.64.77.41	Complex Analysis, Probability and Statistical	
294			18MAT41	Methods	
295	1		18CS42	Design and Analysis of Algorithms	
296	]		18CS43	Operating Systems	i
297		Information	18SC44	Microcontroller and Embedded Systems	i
298	ISE (UG)	Science &	18CS45	Object Oriented Concepts	
299	IV SEM		18CS46	Data Communication	2018
300		Engineering	18CSL47	Design and Analysis of Algorithm Laboratory	1
301			18CSL48	Microcontroller and Embedded Systems	
301			10CSL48	Laboratory	
302		I F	1000000	Constitution of India, Professional Ethics and	
302			18CPC39	Cyber Law	
303			18CS51	Management, Entrepreneurship for IT idustry	
304			18CS52	Computer Networks and Security	
305			18CS53	Database Management System	
306	ISE (UG)V	Information	18CS54	Automata theory and Computability	
307	SEM	Science &	18CS55	Application Development using Python	2018
308	SEM	Engineering	18CS56	Unix Programming	1
309	1		18CSL57	Computer Network Laboratory	7 00
310			18CSL58	DRMS I aboratory with mini project	Principal
311			18CIV59		AJARAJESWARI

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312			18IS61	File Structures	
313	]	1 [	18IS62	Software Testing	1
314		Information	18CS63	Web Technology and its applications	1
315	ISE (UG)	Science &	18CS64X	Professional Elective -1	2018
316	VI SEM	Engineering	18CS65X	Open Elective –A	2018
317	]	Engineering	18ISL66	Software Testing Laboratory	1
318	]		18ISL67	File Structures Laboratory with mini project	1
319			18CSMP68	Mobile Application Development	
320			17CS71	Web Technology and its applications	
321	]	1 [	17IS72	Software Architecture and Design Patterns	1
322		Information	17CS73	Machine Learning	1
323	ISE (UG)	Science &	17IS74x	Professional Elective 3	2017
324	VII SEM	Engineering	17IS75x	Professional Elective 4	2017
325		Lingineering	17CSL76	Machine Learning Laboratory	1
326		l L	17CSL77	Web Technology Laboratory with mini projec	
327			17CSP78	Project Work Phase-I + Project work Seminar	
328		Information -	17CS81 Internet of Things	Internet of Things and Applications	
329			17CS82	Big Data Analytics	
330	ISE (UG)		17IS83X	Professional Elective-5	2015
331	VIII SEM	Engineering	17IS84	Internship/ Professional Practice	2017
332			17ISP85	Project Work-II	
333			17ISS86	Seminar	
334			20SCS11	Mathematical Foundations of Computer Science	
335			20SCS12	Artificial Intelligence and Machine Learning	
336		M.Tech in	20SCS13	Advanced Database Management Systems	
337	SCS(PG) I	Computer	20SCS14	Advanced Algorithms	
338	SEMESTER	Science and	20SCS15	Internet of Things and Applications	2020
339		Engineering	20SCSL16	Algorithms and Database Management Systems	
			20SCSL16	Laboratory	
340			20RMI17	Research Methodology and IPR	
341			20SCS21	Data Science	
342		M.Tech in	20SCS22	Semantic Web and Social Networks	
343	SCS(PG) II	Computer	20SCS23	Blockchain Technology	
344	SEMESTER	Science and	20SCS243	Cloud Computing	2020
345		Engineering	20SCS252	Object Oriented Design	
		-		- J O A TO A LO O DI GALL	

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347			20SCS31	Deep Learning	T
348		M.Tech in	20SCS324	Multi Core Architecture and Programming	
349	SCS(PG) III SEMESTER	5.5	20SCS334	Wireless Sensor Networks	2020
350		Science and	20SCS34	Project Work phase -1	1
351		Engineering	20SCS35	Mini-Project	7
352	SCS(PG) IV SEMESTER	M.Tech in Computer Science and Engineering	20SCS41	Project work phase 2	2020
353			20MCA11	Data Structures with Algorithms	
354			20MCA12	Operating System with Unix	
355			20MCA13	Computer Networks	
356	MCA (PG) I	,,,,,	20MCA14	Mathematical Foundation for Computer Applications	
357	SEM	MCA	20MCA15	Research Methodology & IPR	2020
358			20MCA16	Data Structures with Algorithms Lab	7
359			20MCA17	Unix Programming Lab	-
360			20MCA18	Computer Networks Lab	
361			20MCA19-BC	Basics of Programming & CO	1
362			20MCA21	Database Management System	
363			20MCA22	Object Oriented Programming with Java	7
364			20MCA23	Web Technologies	7
365	MCA(DC) II		20MCA24	Software Engineering	7
366	MCA(PG) II SEM	MCA	20MCA252	Data Mining and Business Intelligence	2020
367	SEM		20MCA263	Mobile Application Development	And Control Control
368			20MCA27	DBMS Lab	7
369			20MCA28	Java Programming Lab	7
370			20MCA29	Web Technologies Lab with Mini-project	1
371			20MCA31	Data Analytics using Python	
372		8	20MCA32	IoT	7
373	MCA (PG)		20MCA33	Advances in Java	
374		MCA	20MCA342	Cloud Computing	2020
375	III SEM	MCA	20MCA352	Big data Analytics	2020
376			20MCA36	Data Analytics Lab with Mini-project	and-
377			20MCA37	IoT Lab with Mini Project Pri	ncipal
378			20MCA38	Advances in Java Lab RAJAR	AJESWARI F ENGINEERING

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379			20MCA41	Advances in Web Technologies	
380			20MCA42	Programming using C#	1
				Industry Internship (4 weeks in vacation of 3rd	1
381	MCA (PG)	MCA	20MCA43	sem.)	2020
	IV SEM			Project work Phase 2 (During 4th Semester- min.	2020
382			20MCA44	of	
302	. 1		201101111	4 Months)	
383			20MBA11	Management & Organizational Behaviour	
384			20MBA12	Managerial Economics	1
385	MBA(PG) I		20MBA13	Accounting for Managers	1
386	SEM	MBA	20MBA14	Business Statistics	2020-2021
387	SEN		20MBA15	Supplied the Control of the Control	+
388			20MBA16	Marketing Management	-
389			20MBA21	Managerial Communications	
390			20MBA21 20MBA22	Human Resource Management	4
391	MDA(DG)			Financial Management	
	MBA(PG) II SEM	MBA	20MBA23	Research Methodology	2020-2021
392	II SEM		20MBA24	Operations Research	
393	1		20MBA25	Strategic Management	1
394			20MBA26	Entrepreneurship & Legal Aspects	
395			20MBA301	Emerging Exponential Technologies	
396			20MBA302	Technology & Operational Strategy	
397			20MBAMM303	Services Marketing	
398	MBA(PG)	0.022707	20MBAMM304	Marketing Research & Analytics	
399	III SEM	MBA	20MBAFM303	Investment Management	2020-2021
400			20MBAFM304	Direct Taxation	
401			20MBAHR303	Recruitment & Selection	
402			20MBAHR304	Human Resource Analytics	
403			20MBAIN307	Intenship	1
404			20MBAMM401	B2B Marketing Management	
405			20MBAMM402	Logistics and Supply Chain Management	
406		20MBAMM403 20MBAFM401	20MBAMM403	Digital Marketing Management	
407	MBA(PG) IV SEM		Risk Management and Insurance		
408		MBA	CONTRACTOR CONTRACTOR	Financial Derivatives	2020-2021
410	IV SEW		20MBAFM403 20MBAHR401	Indirect Taxation	2020 2021
411			20MBAHR401	Organizational Leadership	I al
412			20MBAHR403	Personal Growth & Interpersonal Effectiveness International Human Resource Management	Principal
413			20MBAPR407	Project Report	AJARAJESWAR!

COLLEGE OF ENGINEERING

Ramohalii Cross, Bengaluru-7



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414			15EC71	MICROWAVE & ANTENNAS	
415			15EC72	DIGITAL IMAGE PROCESSING	]
416			15EC73	POWER ELECTRONICS	1
417			15EC741(PE3)	MULTIMEDIA COMMUNICATION	1
418	TCE(UG)	Telecommu	15EC744(PE3)	CRYPTOGRAPHY	1
419	VII SEM	nication	15EC752(PE4)	INTERNET OF THINGS AND WIRELESS	2015
717	VII SEM	Engineering	13EC/32(FE4)	SENSOR NETWORKS	
420			15EC755(PE4)	SATELLITE COMMUNICATION	1
421		1 1	15ECL76	ADVANCE COMMUNICATION LABORATORY	
422			15ECL77	VLSI LABORATORY	1
423			15ECP 78	PROJECT WORK PHASE I	1
424			15EC81	WIRELESS CELLULAR& LTE 4G	
424			13EC61	BROARDBAND	
425			15EC82	FIBER OPTICS & NETWORKS	1
426	TCE(UG)	Telecommu	15EC833(PE 4)	RADAR ENGINEERING	
427	VIII SEM	nication	15EC834(PE4)	MACHINE LEARNING	2015
428	VIII SEWI	Engineering	15EC835(PE4)	NETWORK CRPTOGRAPHY& SECURITY	
429			15ECP85	PROJECT WORK	
430			15EC84	INTERNSHIP/PROFESSIONAL PRACTICE	

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RAJARAJESWARI
COLLEGE OF ENGINEERING
namohali, Cross, Bengaluru-7/

#### Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018

REGISTRAR

Phone: (0831) 2405468

Fax : (0831) 2405467

Ref. No. VTU/Aca/A6/2014-15//379

Date: 2 5 MAY 2015

#### CIRCULAR

This is to bring to the notice of the Principals of affiliated Engineering colleges that,

"As per the directions of University Grants Commission, New Delhi, the Choice Based Credit System (CBCS) will be introduced for B.E./B.Tech. Programs from the academic year 2015-16. In light of this it is decided to retain 2010 syllabus to the students admitted to B.E./B.Tech. during the academic year 2014-15".

Hence, the students who are admitted to:

1. FIRST Semester B.E./B.Tech. during the academic year 2014-15 will study the 2010 scheme and syllabus from III to VIII Semesters without any modification,

2. THIRD Semester B.E./B.Tech. (Lateral Entry) during the academic year 2015-16 will study the 2010 scheme and syllabus from III to VIII Semesters without any modification, and

3. The Question Paper Pattern (answering 5 out of 8 questions) will remain the same as that of the 2010 scheme.

The Principals of affiliated Engineering Colleges are requested to bring the contents of this circular to the notice of all the concerned.

Sd/-REGISTRAR

(Dr. K. E. Prakash)

To. The Principals of affiliated Engineering colleges.

Copy FWCs to:

1. The Registrar (Evaluation), VTU Belgaum, for information and needful.

The Special Officers of VTU Regional Offices, for information.

3. The Special Officer, Academic Section, VTU, for information.

The Secretary to VC, VTU Belgaum, for information.

Principal

RAJARAJES WARI

COLLEGE OF ENCINEERING

Ramohalli Cross, Bengaluru-7/

REGISTRAR (Dr.K.E.Prakash)

# CHOICE BASED CREDIT SYSTEM (CBCS) REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY (B.E./B. Tech.)

#### **DEFINITIONS OF KEY WORDS:**

1. University: Visvesvaraya Technological University, Belagavi.

2. Academic Year: Two consecutive (one odd + one even)

semesters constitute one academic year.

3. Semester: Each semester will consist of 15-18 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from August to January and even semester from February to July.

 Choice Based Credit System (CBCS): The CBCS provides choice for students to select from the prescribed courses (core,

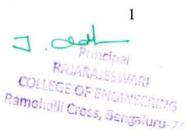
elective and Foundation Courses).

5. Credit Based Semester System (CBSS): Under the CBSS, the requirement for awarding a degree or certificate is prescribed in terms of number of credits to be earned by the students.

6. Programme: An educational programme leading to award of a

Degree or certificate.

- 7. Course: Usually referred to, as 'papers' is a component of a programme. All courses need not carry the same weightage. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/tutorials/laboratory work/ field work/ outreach activities/project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.
- 8. Branch: Specialization or discipline of B.E./B.Tech. Degree Programme, like Civil Engineering, Textile Engineering, etc.
- 9. Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by letters S, A, B, C, D, E and F.
- 10. Grade Point: It is a numerical weightage allotted to each letter grade on a 10-point scale.
- 11. Credit: A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
- 12. Credit Point: It is the product of grade point and number of credits for a course.
- 13. Semester Grade Point Average (SGPA): It is a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits



taken during that semester. It shall be expressed up to two decimal places.

- 14. Cumulative Grade Point Average (CGPA): It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
- 15. First Attempt: If a student has completed all formalities and become eligible to attend the examinations and has attended at least one head of passing, such attempt (first sitting) shall be considered as first attempt.
- 16. Transcript or Grade Card or Certificate: Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.

Choice Based Credit System (CBCS): The CBCS provides choice for students to select from the prescribed courses.

Sequencing Plan for the B.E. / B.Tech. Degree Curriculum

Semesters	Course Coverage
I –II	HSS, BS and ES; Common for all Branches; Mandatory Courses
III-IV	BS Common for all Branches and ES; PS – Core/Elective
V-VII	PS- Core & Electives; Other Electives; Branch-wise Orientation
VIII	PS-Electives/Elective; Other Electives, Internship, Project work

#### Abbreviations:

HSS - Humanities and Social Sciences

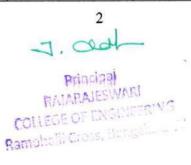
BS - Basic Sciences

ES - Engineering Sciences

PS - Professional Subjects

Credit Structure for Course Work

Lectures (hrs/wk /Sem)	Tutorial (hrs/wk/ Sem)	Lab. Work (hrs/wk/Sem)	Credits (Lec:instruction:Lab)	Credits (Total)
4	0	0	4:0:0	4
3	0	0	3:0:0	3
0	1	2	0:1:2	2

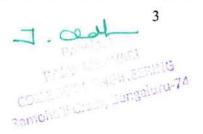


## CHOICE BASED CREDIT SYSTEM (CBCS) REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY

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- 1	B.E.	/B. 7	`ech.	J

150B 1	TITLE AND DURATION OF THE PROGRAMME OF STUDY
150B 1.1	The program of study shall be called the degree Program of study in
	Bachelor of Engineering / Technology, abbreviated as B.E. / B.Tech.
150B 1.2	The program shall be of four academic years duration divided into
	eight semesters, each semester having duration of 16 weeks. For
	evening courses the contact hours are to be satisfied by working extra
	on afternoons of Saturdays and Sundays.
150B 1.3	The calendar of events in respect of the program of study shall be fixed by the University from time to time.
150B 1.4	The examination in all programs of study shall be conducted at the
	end of each semester for all eight semesters.
150B 2	ELIGIBILITY FOR ADMISSION
	(The Government orders issued from time to time in this regard shall
	prevail).
150B 2.1	Admission to I year / I semester Bachelor Degree in Engineering /
	Technology shall be open to the students who have passed the second
	year Pre-University or XII standard or equivalent examination
	recognized by the University.
	For the prerequisite qualification earned from foreign countries,
	Equivalence certificate from the Association of Indian Universities is
	Mandatory.
	The decision of the Equivalence committee shall be final in establishing the eligibility of student.
150B 2.2	In addition to 150B 2.1, the student shall have secured not less than
1005 2.2	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 or as decided by the Government of
	Karnataka.
	Provided that, the minimum marks for the purpose of eligibility shall
	be forty percent (40%) in optional subjects in case of students
	belonging to SC/ST and OBC students from Karnataka or as decided
	by the Government of Karnataka.
	Provided further that, the student shall have studied and passed
	English as one of the subjects.
150B 2.3	Admission to II year/ III semester Bachelor Degree in Engineering/
	Technology (Lateral Entry) shall be open to the students
	Diploma Holders
	• Must have passed diploma or equivalent qualification as
	recognized by University and secured not less than forty five
	percentage (45%) marks in the final year examination (fifth and



sixth semesters) in the appropriate branch of engineering. In case of SC/ST and OBC students from Karnataka the minimum marks for eligibility shall be forty percent (40%).

 Who have completed their Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate from the Director of Technical Education, Karnataka.

 Who are seeking admission under lateral entry shall also clear prescribed Bridge courses (Advanced Mathematics – III and IV) and Mandatory subjects (CPH and CIV) as specified by the University.

#### **B.Sc.** Graduates

- Must have passed B.Sc. degree from a recognized University as
  defined by the UGC or equivalent qualification as recognized by
  University and secured not less than forty five percentage (45%)
  marks in aggregate (including all six semesters). In case of SC/ST
  and OBC students from Karnataka the minimum marks for
  eligibility shall be forty percent (40%). Should have studied
  Mathematics as subject of study at XII Standard.
- Further, all the B.Sc. students seeking admission to lateral entry shall also clear the following subjects before entering into V Semester
  - I. Computer Aided Engineering Drawing (CAED) and
  - II. Programming in C and Data Structures
  - III. CPH and CIV (if not studied at B.Sc. Level).

#### 150B 2.4

Admission to Evening Programme of study shall be open to a student Who on the first day of the term notified by the University for the year of admission has at least one-year professional experience in the branch of engineering / technology, in which the student holds a diploma.

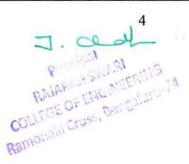
Explanation: Professional experience means employment on regular basis

- a. in Government, Government undertaking, Public Sector undertaking, Corporations or
- b. in a private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or
- c. In Government, Government recognized institutions as technical

Provided that the period of apprenticeship undergone shall also be treated as professional experience, if sponsored by the Board of Apprenticeship Training, Southern Region Chennai or by any Government, Government undertaking or Public Sector undertaking. Provided further that employment shall be in an establishment situated within the urban agglomeration of city in which the professional institution is situated.

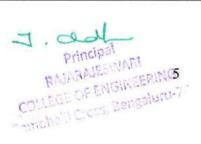
150B 2.5

Those students, who have passed a qualifying examination other than

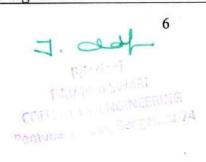


	the PUC II examination of the Pre-University Education Board of
	Karnataka, have to obtain eligibility certificate for seeking admission
	to B.E./B.Tech. Degree Programme from Visvesvaraya Technological
	University, Belagavi or from the Principal of concerned Engineering
	College of Karnataka State.
150B 3	ATTENDANCE REQUIREMENT
150B 3.1	Each semester is considered as a unit and the student has to put in a
	minimum attendance of 85% in each Course 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
	student is studying, showing reasonable cause such as medical
	grounds, participation in University level sports, cultural activities,
	seminars, workshops, paper presentation, etc.
150B 3.2	The basis for the calculation of the attendance shall be the number of
	hours prescribed by the University by its calendar of events. For the
	first semester students, the same shall be reckoned from the date of
	admission to the course as per CET allotment.
150B 3.3	The students shall be informed about their attendance status
	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.
	Provided that mere omission by the college to inform the student
	about the shortage of attendance shall not entitle him to appear for
	examination.
150B 3.4	A student having shortage of attendance in one or more subjects shall
	have to repeat the whole semester and such students 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.
150B 3.5	TEMPORARY DISCONTINUATION OF THE PROGRAM:
1002 0.0	A student, who wishes to temporarily discontinue the program 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 student shall complete the course as per
	150B 6.2.
150B 4	INTERNAL ASSESSMENT MARKS
150B 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 50.
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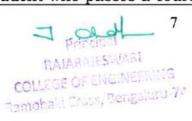


150B 4.2	The Internal Assessment marks in a theory paper shall be based on two tests generally conducted at the end of 6th and 12th week of each semester. An additional test may be conducted for the desirous students before the end of the semester to give an opportunity to such students to improve their Internal Assessment Marks, subject to the provisions of 150B 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.
150B 4.3	Average of the better marks obtained from any two tests shall be the Internal Assessment Marks for the relevant subject.
150B 4.4	If a student remains absent for all the Internal Assessment tests conducted, the Internal Assessment Marks shall be marked as AB for the subject against the University Seat Number (USN) of the student in the marks sheet submitted to the University by the Principal of the College.
150B 4.5	In the case of a Practical, the IA marks shall be based on the laboratory journals/reports and one practical test.
150B 4.6	<ul> <li>The IA marks for I year Computer Aided Engineering / Drawing:</li> <li>a) 12 marks for class work (sketching and Computer Aided engineering drawing).</li> <li>b) 08 marks for test in the same pattern as that of the main examination (better of the two tests)</li> <li>ii) The IA marks for other Drawings and Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 60:40.</li> </ul>
150B 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 8th 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.
150B 4.8	The final list, incorporating corrections (if any) of IA marks awarded to the students in the Theory/Practical/Internship/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.
150B 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.

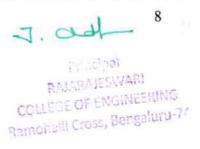


Practical/Internship/Project work shall not be eligible for the Practical /Internship/Project of the University examination.  150B 4.10   For seminars, the minimum requirement of IA marks shall be 40% of the maximum.  150B 4.11   Such students as mentioned in 150B 4.10 shall repeat the laboratory work/Internship/project work during the subsequent semester(s) and secure at least the minimum marks prescribed.  150B 4.12   For theory subjects, there shall not be any minimum requirements of IA marks.  150B 4.13   Improvement of IA marks shall not be allowed a. In theory subjects and b. In Laboratory/Workshop/Seminar/ Internship / Project where the student has already secured the minimum required marks.  150B 4.14   IA marks of those students to whom 150B 4.11 is applicable, shall be sent separately to the Registrar (Evaluation).  150B 4.15   IA marks shall reach the University before the commencement of examination as per the notification from the office of the Registrar (Evaluation) from time to time. After the submission of Internal Assessment marks to the University, any request for change of IA marks shall not be considered under any circumstances.  150B 5   ELIGIBILITY FOR PASSING A student who obtained Grades O to E shall be considered as passed and if a student secured "F" grade in any of the head of passing he /she has to reappear for the examination.  150B 5.1   For a pass in a theory subject/drawing, the student 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. i.e. Minimum Passing Grade is "E".  150B 5.1   For a pass in a Practical/Internship/Project/Viva-voce examination, a student shall secure a minimum of 40% of the maximum marks		
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150B 5.3 The student who passes a course of a semester as per 150B 5.1 shall	1508 5.3	The student who passes a course of a semester as per 150B 5.1 shall

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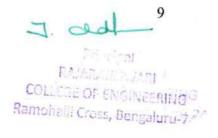


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	not be allowed to appear for the same again, unless he/she opts for
	rejection of results as per 150B 5.4, 5.5, 5.6, 5.7 & 5.8.
OB 5.4	A student may, at his/her desire, reject his/her total performance of a
	semester (including IA marks) or he/she may reject the result of
	his/her performance in University examination of a semester only.
	The rejection is permitted only once during the entire course of study.
150B 5.5	The student who desires to reject the performance as per 150B 5.4
	shall reject performance in all the courses of the semester, irrespective
	of whether the student has passed or failed in any subject. However,
	the rejection of performance of 8th semester project result shall not be
	permitted.
150B 5.6	A student, 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 student will continue to have the same University Seat Number,
	which was allotted earlier. The course duration permitted (as per
	150B 6) will be counted as per old USN.
OB 5.7	The student, 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 student 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 the odd semester, the student shall be allowed to
	take admission to the immediate next even semester. However, if the
	rejection of the University result is of the even semester, the student
	shall not be allowed to take admission to the next odd semester (as per
	150B 7.2).
150B 5.8	Such students who opt for rejection at final year are eligible for the
	award of class and distinction at the B.E./ B.Tech. degree level, but
	are not eligible for the award of ranks.
150B 5.9	A student shall be declared to have completed the program of B.E. /
	B.Tech., degree, provided the student has undergone the stipulated
	course work as per the regulations and has earned at least 200
	Credits.
15OB 6	MAXIMUM DURATION FOR COURSE COMPLETION
150B 6.1	A student who has not obtained the eligibility for third semester after a

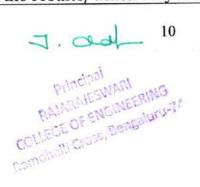


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150B 6.2	period of three academic years from the date of first admission shall discontinue the course. However, the student is eligible for readmission for first year B.E./B.Tech. in respective College of the University and he/ she shall be allotted a University Seat Number (USN) without any change in the year of admission in the USN but the serial number of the student shall start with six hundred (6XX) series in the same branch.  The student admitted to 1st year B.E/ B.Tech. 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.  The students admitted under lateral entry scheme (2nd Year
	B.E./B.Tech.) shall complete the course within a period of six academic years from the date of first admission, failing which he/she
	has to discontinue the course.
150B 7	PROMOTION AND ELIGIBILITY FOR THE EXAMINATIONS
150B 7.1	There shall not be any restriction for promotion from an odd semester
	to the next even semester, provided the student has fulfilled the attendance requirement.
150B 7.2	A student shall be eligible for promotion from an even semester to the
	next odd semester (i.e. of the next academic year) if the student 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 lower semester examinations. A theory or practical shall be treated as a head of passing.  Illustrations  a. A student 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.  b. A student 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.  c. A student seeking eligibility to 7 <sup>th</sup> semester should have passed in
	all the subjects up to 4th semester and should not have failed in more than 4 heads of passing of 5th and 6th semesters taken together.  The Subjects:  1. Constitution of India, Professional Ethics and Human Rights, and 2. Environmental Studies
	are Mandatory Non-Credit Courses; these subjects shall not be considered for the Eligibility for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above subjects is mandatory before the completion of Degree.
150B 8	COURSES
HIP	

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150B 8.1	(i) Core Courses: This is the course which is to be compulsorily studied by a student as a core requirement to complete the requirements of a program in a said discipline of study. These courses will have 4 credits per course.  (ii)Foundation Courses: The Foundation Courses are of two kinds: Compulsory Foundation and Elective foundation.  "Compulsory Foundation": These courses are the courses based upon the content that leads to Knowledge enhancement. They are mandatory for all disciplines. These courses will have 4 credits per course.  "Foundation Electives": These are value based courses aimed at man making education. These courses will have 3 credits per course.  (iii)Elective Courses: This is course, which can be chosen from the pool of papers. It may be supportive to the discipline/ providing extended scope/enabling an exposure to some other discipline / domain / nurturing student proficiency skills. These courses will have 3 credits per course.  (iv)Mandatory Non-Credit Courses: These courses are mandatory for students joining B.E./B.Tech. Program and students have to successfully complete these courses before the completion of degree.		
150B 8.2	The minimum number of students to be registered for an Elective to be offered shall be not less than ten.		
150B 8.3	A student shall exercise his option in respect of the electives and register for the same at the beginning of the concerned semester. The student may be permitted to opt for change of elective subject within 15 days from the date of commencement of the semester as per the calendar of the University.		
150B 9	INTERNSHIP		
150B 9.1	Internship: The student shall undergo an Internship for 8 weeks i.e. starting from the end of 7 <sup>th</sup> semester Examination after availing one week vacation and completing during the initial period of 8 <sup>th</sup> semester.  1. The college shall nominate a faculty for a group of		
	students to prepare the students for internship.  2. The students shall report the progress of the internship to the guide in regular intervals and may seek his/her advise.		
	<ol> <li>The Internship shall be completed between 7<sup>th</sup> and 8<sup>th</sup> semesters.</li> </ol>		
ATTENDED TO THE PROPERTY OF TH	4. After completion of 7th semester Theory and Practical examinations, the students shall have one week vacation.		
	5. Immediately after availing one week vacation, the students shall undergo internship (without waiting for the results) which may be a period of 4/5 weeks.		



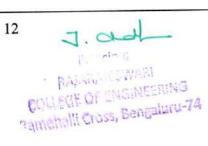
6. The remaining period of internship; i.e. 4/3 weeks shall be completed during the initial period of the 8th semester.

AMPROVED TO SUPPLY

- After completion of Internship, students shall submit a report to the college with the approval of both internal and external guides.
- 8. There will be 50 IA and 50 External marks for Internship.
- 9. The guide shall be the internal examiner and IA marks out of 50 are to be awarded by the internal guide after evaluating the Internship Report submitted by the student.
- 10. Viva-Voce on internship shall be conducted at the college and the date of Viva-Voce shall be fixed in consultation with the external Guide.
- 11. Viva-Voce on internship shall be conducted by both internal and external guides and jointly evaluate the internship report for 50 marks. The expenses of external guide are to be borne by the student/college.
- 12. In case of the non availability of external guide for the conduct of viva-voce, the Principal shall appoint a senior faculty of the department to conduct viva-voce along with the internal guide, and they jointly evaluate the internship report for 50 marks.
- 13. The students are permitted to carry out the internship outside India with the following conditions:
  - a. The entire expenses are to be borne by the student or college and the University will not give any financial assistance.
  - b. The Internal Guide has to visit at least once during the student's internship; the expenses of the visit are to borne by the student/college.
  - c. The external guide from the industry has to be an examiner for the viva voce on Internship, and the expenses are to be borne by the student/college.
  - d. The University will not provide any kind of Financial Assistance to any student for internship and for the conduct of Viva-Voce on internship.

COLLEGE OF SMELLETERING Ramohalii Cross, Bengaluru-74

150B9.2	<b>Report on Internship</b> : The College shall facilitate and monitor the student internship program. The internship report of each student shall be submitted to the Head of the Department of the college with the approval of the Guide.									
150B9.3	Failing to undergo Internship: Completion of internship is mandatory; if any student fails to complete internship, he/she will not be eligible for the award of degree.									
150B9.4	Non-completion of Internship: In such cases, the student has to redo the internship.									
150B 10	SEMI	NAR AND	PROJE	CT						
150B 10.1	only.	ar topic								
150B 10.2	Project work at 8th semester shall be completed batch wise, each batch consisting of minimum of two students and maximum four students.									
150B 10.3	Viva-voce examination in project work shall be conducted batch-wise.									
150B 11		The VTU								-
	Grade Point Average (CGPA). The CGPA will be calculated every semester, except the first semester.  ii. The grading system is with the following letter grades as given below:  Grades and Grade Points									
	3	Level	Out- standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail
	Letter O S A B C D E F						F			
	Grade 10 9 8 7 6 5 4 00 Points									
	iii	Such st examina marks h Number	nt obtair ired to re tudents ation/s ne/she s of atten	eappear after pa will be cores in	in the assing award the su	exam the f led wi absequ	ination. ailed su th "E" ient exa	bject in grade in minatio	n sub rrespe	sequent ective of



Grade Points Scale								
Level	Out- standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail
Letter Grade	0	S	A	В	С	D	E	F
Grade Points	10	9	8	7	6	5	4	00
Score (Marks) Range	≥ 90	<90	< 80 ≥70	< 70 ≥60	< 60 ≥50	< 50 ≥45	<45 ≥40	< 40

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#### Computation of SGPA and CGPA

The following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e

**SGPA** (Si) = 
$$\sum$$
(Ci x Gi) /  $\sum$ Ci

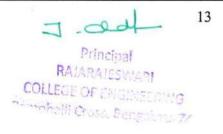
where Ci is the number of credits of the i<sup>th</sup> course and Gi is the grade point scored by the student in the i<sup>th</sup> course.

**ii.** The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e.

**CGPA** = 
$$\sum$$
(Ci x Si) /  $\sum$  Ci

where Si is the SGPA of the i<sup>th</sup> semester and Ci is the total number of credits in that semester.

iii. The SGPA and CGPA shall be rounded off to 2 decimal places and reported in the transcripts.



#### Illustration for Computation of SGPA and CGPA

Computation of SGPA

Illustration No.1

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 1	4	A	8	4x8 = 32
Course 2	4	С	6	4x6 = 24
Course 3	4	В	7	4x7 = 28
Course 4	3	0	10	3x10= 30
Course 5	3	D	4	3x4 = 12
Course 6	3	С	6	3x6 = 18
Course 7	2	S	9	2x9 = 18
Course 8	2	С	6	2x6 = 12
	25			174

Thus, SGPA= 174/25=6.96

Illustration No.2

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 1	4	A	8	4x8 = 32
Course 2	4	С	6	4x6 = 24
Course 3	4	В	7	4x7 = 28
Course 4	3	0	10	3x10= 30
Course 5	3	F	0	3x0 = 00
Course 6	3	С	6	3x6 = 18
Course 7	2	S	9	2x9 = 18
Course 8	2	С	6	2x6 = 12
	25			162

Thus, SGPA= 162/25=6.48

Illustration No 2(a)

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 5	3	E	4	3x4 = 12
	25			Ci (First Attempt)162 + Ci (subsequent attempt) 12= 174

Thus, SGPA= 174/25=6.96

Illustration No.3

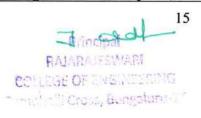
Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade	
Course 1	4	A	8	4x8 =32	
Course 2	4	С	6	4x6 = 24	

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Pamohalli Cross, Bengaluru-74

	Course 3	4	В	7	4x7	=28				
	Course 4	3	0	10	3x10					
	Course 5	3	S	9	3x9					
	Course 6	3	C	6	3x6					
	Course 7	2	S	9	2x9					
	Course 8	2	C	6	2x6					
	000.00	25				189				
	Thus, SGPA=		.56							
				7.26						
	(	$CGPA = \frac{25x6.96 + 25x7.56}{50} = 7.26$								
		fter Final								
		- 2 Sem 3				Sem 7 Credit : 24	Sem 8 Credit : 26			
		8.5 SGPA:9.2				SGPA:8.68	SGPA:9.4			
	Thus, CGPA=	24x7 + 24x8.5 +	27x9.2 + 27x6		3+24x7.73+2	24x8.68 + 26x9	<del>0.4</del> = <b>8.2</b>			
				200						
	Transcript (F									
	grades, grade points, SGPA and CCPA, the transcript for each									
	semester and a consolidated transcript indicating the performance in									
150B 12	all semesters may be issued.									
1306 12	CONVERSION OF GRADES INTO PERCENTAGE:									
	Conversion formula for the conversion of GPA into Percentage is									
	[CGPA Earned - 0.75] x 10= Percentage of marks scored.									
	<b>Illustration</b> : [CGPA Earned 8.2 - 0.75]x 10 = 74.5%									
150B 13	AWARD OF PRIZES, MEDALS & RANKS									
150B 13.1	For the award of Prizes and Medals, the conditions stipulated by the									
1506 15.1	Donor may be									
	The second secon				provisio	ons or un	e statutes			
150B 13.2	framed by the University for such awards.  For award of ranks in a branch, a minimum of 10 students should					ate should				
130B 13.2	have appeared									
	ranks awarded shall be 10% of total number of students appeared in 8th semester or 10 students, whichever is less in that branch.  Illustration:  1. If 1028 students appeared for the 8th semester in Electronics									
						·•				
						Electronics				
	and Communication Engineering Branch, the number of ranks to be awarded for Electronics and Communication Engineering will 10.  2. If 90 students appeared for the 8th semester in Biomedical									
							0 - 0			
							Biomedical			
		The second secon					varded for			
		cal Engine								
150B	For award of r	ank in a b	ranch of	Engineer	ring / Tec	chnology,	the CGPA			
13.3	secured by the	e student f	rom	35 <del>5</del> 20	ধ্যা ধন্মী জী	<del></del>				
	a) 1st to 8	th semeste	r for the	student	s admitt	ed to B.I	E./B.Tech.			
	Program	from 1st y	ear, and							

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150B 13.4	<ul> <li>b) 3<sup>rd</sup> to 8<sup>th</sup> semester for the students admitted to B.E./B.Tech. Program from 2<sup>nd</sup> year (Lateral Entry) shall be considered.  A student shall be eligible for a rank at the time of award of degree in each branch of Engineering / Technology, provided the student</li> <li>a. Has passed 1<sup>st</sup> to 8<sup>th</sup> (students joining from 1<sup>st</sup> semester) or 3<sup>rd</sup> to 8<sup>th</sup> (in case of lateral entry) semester in all the subjects in first attempt only</li> <li>b. Has not repeated/rejected any of the lower semesters.</li> <li>If two students get the same CGPA, the tie should be resolved by considering the number of times a student has obtained higher SGPA; but, if it is not resolved even at this stage, the number of times a student has obtained higher grades like O, S, A, B etc shall be taken into account in rank ordering of the students in a program.</li> </ul>
150B 14	TRANSFER OF STUDENTS
150B14.1	Transfer of students from one college to another college within Karnataka state shall be permitted only at the beginning of third, fifth, and seventh semesters, subject to availability of seats within the permitted intake in respective Colleges and subject to the prior approval of the University and the provisions of 150B 7.2. In the case of students from Universities other than VTU the students should have passed in all the courses of 1st & 2nd semesters for admission to 3rd semester and all the courses of 1st to 4th semesters for admission to 5th semester and all the courses of 1st to 6th semesters for admission to 7th semester.  The students seeking admission from Universities other than VTU shall have to  a. apply for establishment of equivalence with prescribed fees as notified by the VTU and  b. Obtain No Objection for admission from the university before commencement of term as notified by VTU.
150B14.2	Transfer of students within the College from one branch to another branch at 3 <sup>rd</sup> semester shall be permitted with the prior approval of the VTU and subject to the provisions made by the Government of Karnataka and AICTE in this behalf.
150B14.3	The University may prescribe fee for administrative purpose (for updating of the records), which shall be notified from time to time, for transfer from one college to another (Change of College) or one branch to another branch (change of branch within the college).

NOTE: These regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be binding on all and may be modified from time to time.

