

RV COLLEGE OF ENGINEERING, BENGALURU-560 059
(Autonomous Institution Affiliated to VTU, Belagavi)
FIRST SEMESTER CREDIT SCHEME FOR PHYSICS CYCLE
(Effective from the academic year 2018-19)

(COMMON TO ALL PROGRAMMES)							
Sl. No.	Course Code	Course Title	BoS	CREDIT ALLOCATION			
				L	T	P	Total Credits
1.	18MA11	Engineering Mathematics-I	MAT	3	1	0	4
2.	18PH12	Engineering Physics	PHY	3	1	1	5
3.	18EE13	Elements of Electrical Engineering	EE	2	1	0	3
4.	18CV14	Elements of Civil Engineering and Mechanics	CV	2	1	0	3
5.	18EE15	Elements of Engineering Practices	EE	--	0	1	1
6.	18ME16	Computer Aided Engineering Drawing	ME	1	0	2	3
7.	18HS17	English Language Laboratory-1	HSS			1	1
		Total number of Credits		11	4	5	20
Total Number of Hours				11	08	10	29

R V COLLEGE OF ENGINEERING, BENGALURU-560 059**(Autonomous Institution Affiliated to VTU, Belagavi)****FIRST SEMESTER CREDIT SCHEME FOR CHEMISTRY CYCLE****(Effective from the academic year 2018-19)**

(COMMON TO ALL PROGRAMMES)							
Sl. No.	Course Code	Course Title	BoS	CREDIT ALLOCATION			
				L	T	P	Total Credits
1.	18MA11	Engineering Mathematics-I	MAT	3	1	0	4
2.	18CH12	Engineering Chemistry	CHY	3	1	1	5
3.	18CS13	Programming in C	CS	2	1	1	4
4.	18EC14	Elements of Electronics Engineering	EC	2	1	0	3
5.	18ME15	Elements of Mechanical Engineering	ME	2	1	0	3
6.	18HS16	English Language Laboratory-1	HSS	-	0	1	1
		Total number of Credits		12	5	3	20
Total Number of Hours				12	10	06	28

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THIRD SEMESTER CREDIT SCHEME

Sl. No.	Course Code	Course Title	BoS	CREDIT ALLOCATION				
				L	T	P	S	Total Credits
8.	16MA31C	Applied Mathematics-III	MAT	3	1	0	0	4
9.	16EM32B	Engineering Materials#	ME	2	0	0	0	2
10.	16ME33	Mechanics of Materials	ME	3	0	1	1	5
11.	16ME34	Thermal Engineering - I	ME	3	1	0	1	5
12.	16ME35	Fluid Mechanics	ME	3	0	0	1	4
13.	16ME36	Manufacturing Processes - I	ME	3	0	1	1	5
14.	16DMA37	Bridge Course Mathematics*	MAT	2	0	0	0	0
Total number of Credits								25
Total Number of Hours / Week				19	2	4	16**	42

*Mandatory Audit course for lateral entry diploma students

**Non-contact hours

FOURTH SEMESTER CREDIT SCHEME

Sl. No.	Course Code	Course Title	BoS	CREDIT ALLOCATION				
				L	T	P	S	Total Credits
1	16MA41C	Applied Mathematics - IV	MAT	3	1	0	0	4
2	16ET42	Environmental Technology#	BT	2	0	0	0	2
3	16ME43	Metrology and Measurements	ME	3	0	1	1	5
4	16ME44	Kinematics of Machines	ME	3	0	0	1	4
5	16ME45	Thermal Engineering II	ME	3	1	1	0	5
6	16ME46	Manufacturing Processes II	ME	3	0	1	1	5
7	16HS47	Professional Practice-II (Team Work & Professional Ethics)\$	HSS	0	0	0	0	1
8	16DCS48	Bridge Course C Programming*	CSE	2	0	0	0	0
Total number of Credits								26
Total Number of Hours / Week				19	2	6	12**	39

*Mandatory Audit course for lateral entry diploma students

**Non-contact hours

R. V. COLLEGE OF ENGINEERING, BENGALURU – 59
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DEPARTMENT OF MECHANICAL ENGINEERING
SCHEME OF TEACHING AND EXAMINATION

FIFTH SEMESTER								
Sl. No	Course Code	Course Title	BOS	Credit Allocation				Total Credits
				L	T	P	S	
1	16HEM51	Foundations of Management and Economics	HSS	2	0	0	0	2
2	16ME52/16IM52	Design of Machine Elements – I	ME	3	0	1	0	4
3	16ME53	Heat and Mass Transfer	ME	3	0	1	1	5
4	16ME54	CAD/CAM	ME	3	1	1	0	5
5	16ME55	Dynamics of Machines	ME	3	0	0	1	4
6	16ME5AX	Elective A (PE)	ME	3	0	0	1	4
7	16GB5XX	Elective B (OE)		4	0	0	0	4
		Total No. of Credits						28
		No. Of Hrs.		21	1	6	12**	41

**Non-contact hours

Elective A (PE)	Elective Title	Elective B (OE)	Elective Title
16ME5A1	Mechanics of Composite Materials	16GB5XX	Industrial Automation
16ME5A2	Industrial Robotics		
16ME5A3	Refrigeration and Air conditioning		
16ME5A4	Advanced Solid Mechanics		

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SIXTH SEMESTER								
Sl. No.	Course Code	Course Title	BOS	Credit Allocation				Total Credits
				L	T	P	S	
1	16HSI61	IPR & Entrepreneurship	HSS	3	0	0	0	3
2	16ME62	Design of Machine Elements II	ME	3	0	1	0	4
3	16ME63	Turbo machinery	ME	3	0	1	0	4
4	16ME64	Finite Element Methods	ME	3	0	1	1	5
5	16ME6CX	Elective C (PE)	ME	3	0	0	1	4
6	16XX6DX	Elective D (PE)	ME	4	0	0	0	4
7	16GE6XX	Elective E(O E)		3	0	0	0	3
8	16HS68	Professional Practice-III (Employability Skills and Professional Development of Engineers)\$\$	HSS	1	0	0	0	1
		Total No. of Credits						28
		No. of Hrs.		23	0	6	4**	36

\$\$ 3 days (18 Hrs) in 5th semester and 3 days (18 Hrs) in 6th semester

**Non-contact hours

Elective C (PE)	Elective Title	Elective D (PE)	Elective Title	Elective E (OE)	Elective Title
16ME6C1	Hydraulics and Pneumatics	16ME6D1	Gas dynamics and Combustion	16GE6XX	Automotive Engineering
16ME6C2	Computational Fluid Dynamics	16ME6D2	Non Traditional Processes		
16ME6C3	Energy Conversion Engineering	16ME6D3	Theory of Plates and Shells		
16ME6C4	Advanced Machine Design	16ME6D4	Cutting Tool Design		
16ME6C5	Product Design and Development	16ME6D5	Quality Assurance		

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SEVENTH SEMESTER								
Sl. No	Course Code	Course Title	BOS	Credit Allocation				Total Credits
				Lecture	Tutorial	Practical	SS (EL)	
1	16ME71	Minor Project	ME	0	0	3	0	3
2	16ME72	Mechanical Vibrations	ME	3	1	1	0	5
3	16ME73	Control Engineering	ME	3	1	0	0	4
4	16ME7FX	Elective F (PE)	ME	4	0	0	0	4
5	16ME7GX	Elective G(PE)	ME	4	0	0	0	4
6	16GH7XX	Elective H (OE)		3	0	0	0	3
		Total No. of Credits						23
		No. Of Hrs.		19	2	2	0	23

* EI, EE, CV, EC, ME – 6 hrs. / week Minor Project.

Elective F (PE)	Elective Title	Elective G(PE)	Elective Title	Elective H (OE)	Elective Title
16ME7F1	Automotive Systems Engineering	16ME7G1	Advanced Manufacturing Practices	16GH7XX	Industry 4.0 – Smart Manufacturing for the Future
16ME7F2	Advanced Mechanisms Design	16ME7G2	Design for Manufacturing and Assembly		
16ME7F3	Non-Linear Finite Element Methods	16ME7G3	Plastic Mould Design		
16ME7F4	Design of Heat Exchangers	16ME7G4	Engineering Systems Design		
PE - PROFESSIONAL ELECTIVE			OE- OTHER ELECTIVES		

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EIGHTH SEMESTER								
Sl. No.	Course Code	Course Title	BOS	Credit Allocation				Total Credits
				Lecture	Tutorial	Practical	EL	
1	16MEP81	Major Project	ME	0	0	16	0	16
2	16MES82	Technical Seminar	ME	0	0	2	0	2
3	16HSS83	Innovation and Social Skills	HSS	0	0	2	0	2
		Total No. of Credits						20
		No. Of Hrs.		0	0	40	0	40

