



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(Autonomous Institute affiliated to VTU)

Scheme of Teaching and Examination: Effective from AY 2021 – 22
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

UG PROGRAM: BE (PHYSICS GROUP)								Semester: I				
Sl. No.	Course category	Course Code	Course Title	Teaching Dept.	Teaching Hours/Week			Credits	Examination			
					L	T	P		Duration	CIE Marks	SEE Marks	Total Marks
1	BS	21MA11	Calculus and Differential Equations	Mathematics	2	1	1	3	3	50	50	100
2	BS	21PY12	Engineering Physics	Physics	3	0	0	3	3	50	50	100
3	ES	21EE13	Elements of Electrical Engineering	EEE	2	2	0	3	3	50	50	100
4	ES	21ME14	Engineering Graphics	ME	2	0	2	3	3	50	50	100
5	ES	21CV15	Elements of Civil Engineering	CV	2	2	0	3	3	50	50	100
6	BS (LB)	21PYL16	Engineering Physics Laboratory	Physics	0	1	2	1	3	50	50	100
7	ES (LB)	21EEL17	Electrical Engineering Laboratory	EEE	0	0	2	1	3	50	50	100
8	HSS	21HS18	Technical English-I	HSS	0	1	1	1	2	50	50	100
9	AEC	21AE19Y/ 21AE19S/ 21AE19N/ 21AE19M	Yoga/Sports/NCC/Music	HSS	0	1	1	1	-	100	-	100
10	AEC	21AE110	Design Thinking & Innovation	All Engg. Depts	0	2	0	1	-	100	-	100
TOTAL					11	10	9	20	-	600	400	1000
					30							

Note: BS: Basic Science; ES: Engineering Science; HSS: Humanities and Social Sciences; AEC: Ability Enhancement Courses, LB: Laboratory Course

L-Lecture, T-Tutorial, P-Practical/Drawing, CIE-Continuous Internal Evaluation, SEE-Semester End Examination

Credit Definition:

1 hour lecture (L) per week = 1 Credit; 2 hour tutorial (T) per week = 1 Credit

1 hour tutorial (T)/Practical (P) per week = 0.5 credit; 2 hour Practical/Laboratory/Drawing (P) per week = 1 Credit

Component		Marks	Average Marks	Total Marks
CIE	Internal – 1	Conducted for 50 M and Reduced to 25 M	25	50
	Internal – 2	Conducted for 50 M and Reduced to 25 M		
	Internal – 3	Conducted for 50 M and Reduced to 25 M		
	Compensatory Test	Conducted for 50 M and Reduced to 25 M	25	
AAT	Conducted for 50 M and Reduced to 25 M. Note: minimum 03 AATs/course shall be used by the course coordinators. The program assessment committee (PAC) and HoD will play the advisory role in deciding the AAT.			
SEE	Semester End Examination	Conducted for 100 M and Reduced to 50 M Comprises Part – A : 20 M of MCQ Part – B : 80 M, 05 Descriptive Questions of 16 marks each with an internal choice	-	50
Total Marks: CIE and SEE				100

Note: There will be no SEE for the AEC course of Yoga, Sports, NCC, Music, Design Thinking & Innovation. It will be a Continuous Internal evaluation with 2 CIE's being conducted during the semester.

AICTE Activity points to be earned by students admitted to BE/B.Tech./B.Plan day college programme (For more details refer to Chapter6, AICTE activity point programme, Model Internship Guidelines):

Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's either semester Grade Card.

The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity points, an Eight semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eight semester Grade Card.



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					L	T	P		Duration	CIE Marks	SEE Marks	Total Marks
1	BS	21MA21	Advanced Calculus, Laplace Transforms and Linear Algebra	Mathematics	2	1	1	3	3	50	50	100
2	BS	21PY22	Engineering Physics	Physics	3	0	0	3	3	50	50	100
3	ES	21EE23	Elements of Electrical Engineering	EEE	2	2	0	3	3	50	50	100
4	ES	21ME24	Engineering Graphics	ME	2	0	2	3	3	50	50	100
5	ES	21CV25	Elements of Civil Engineering	CV	2	2	0	3	3	50	50	100
6	BS (LB)	21PYL26	Engineering Physics Laboratory	Physics	0	1	2	1	3	50	50	100
7	ES (LB)	21EEL27	Electrical Engineering Laboratory	EEE	0	0	2	1	3	50	50	100
8	HSS	21HS28	Technical English-II	HSS	0	1	1	1	2	50	50	100
9	AEC	21AE29Y/ 21AE29S/ 21AE29N/ 21AE29M	Yoga/Sports/NCC/Music	HSS	0	1	1	1	-	100	-	100
10	AEC	21AE210	Design Thinking & Innovation	All Engg. Depts.	0	2	0	1	-	100	-	100
TOTAL					11	10	9	20	-	600	400	1000
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AAT	Conducted for 50 M and Reduced to 25 M. Note: minimum 03 AATs/course shall be used by the course coordinators. The program assessment committee (PAC) and HoD will play the advisory role in deciding the AAT.			
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					L	T	P		Duration	CIE Marks	SEE Marks	Total Marks
1	BS	21MA11	Calculus and Differential Equations	Mathematics	2	1	1	3	3	50	50	100
2	BS	21CH12	Engineering Chemistry	Chemistry	3	0	0	3	3	50	50	100
3	ES	21CS13	C Programming for Engineers	CSE/ISE/AIML	2	0	4	4	3	50	50	100
4	ES	21EC14	Basic Electronics Engineering	ECE/ETE	2	2	0	3	3	50	50	100
5	ES	21ME15	Elements of Mechanical Engineering	ME	2	2	0	3	3	50	50	100
6	BS (LB)	21CHL16	Engineering Chemistry Laboratory	Chemistry	0	1	2	1	3	50	50	100
7	AEC	21AE17	Indian Knowledge System	HSS	0	2	0	1	2	50	50	100
8	HSS	21HS18	Technical English-I	HSS	0	1	1	1	2	50	50	100
9	AEC	21AE19Y/ 21AE19S/ 21AE19N/ 21AE19M	Yoga/Sports/NCC/Music	HSS	0	1	1	1	-	100	-	100
TOTAL					11	10	9	20	-	500	400	900
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