

Teaching and Examination Scheme for Post S.S.C. Diploma Courses

Course Name: Mechanical / Civil / Chemical / Computer / Electronics / Electrical / Textile Engineering Groups

Course Code: CE/CR/CS/CH/PS/CM/CO/IF/CW/DE/EJ/EN/EO/ET/EX/IE/MU/EE/EP/EU/IS/IC/AE/FG/ME/PG/PT/DC/TX/TC

Duration of Course: 6 Semesters

Semester: First

With Effect From Academic Year: 2017 - 18

Duration: 16 Weeks

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S. N.	Course Title	Abbre	Sub.		0.2000		Credit			1	heory						Pract	ical			Grand
14.		Viation	Code	L	T	P	(L+T+P)	Paper	E.	SE	P	A	To	tal	ES	E	P	A	To	tal	Total
								Hrs.	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	
1	English	ENG	22101	3		2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
2	Basic Physics	nec	22102	2	(4)	2	4	-	AVE:	20	15*	00	100	***	25@	10	25	10	50	20	200
4	Science Chemistry	BSC	22102	2	178	2	4	2	70*#	28	15*	00	100	40	25@	10	25	10	50	20	200
3	Basic Mthematics	BMS	22103	4	2	-	6	3	70	28	30*	00	100	40		***				**	100
4	Fundamentals of ICT	ICT	22001	2		2	4		943						25@^	10	25~	10	50	20	50
	Engineering Graphics (For CE, CR, CS, ME, AE, PG, PT, FG, EE, EP, EU, CH, PS, DC, TC, TX	EGM	22002	2	2	4	6	Tau		**	768	- 10		22	50@	20	50	20	100	40	100
Ī	Engineering Graphics (For DE. EJ, ET, EN, EX, EQ, IC, IE, IS, MU, CO, CM, CW, IF)	EGE	22003	2	-	4	6	(2)	2251	-2	23	22	4	-	50@	20	50~	20	100	40	100
į	Workshop Practice, (For CE,CR,CS,,ME, AE, PG, PT, FG, EE,EP, EU, CH, PS,)	WPM	22004			4	4	122		122	782		346		50@	20	50-	20	100	40	100
6	Workshop Practice. (For CO, CM, CW, TF)	WPC	22005			4	4		++		346	ies.	355	374	50@	20	50~	20	100	40	100
O	Workshop Practice, (For DE, EJ, ET, EN, EX, EQ, IC, JE, IS, MU.)	WPE	22006		**	4	4	1944		**	396	:300			50@	20	50~	20	100	40	100
	Workshop Practice. (For TX, TC, DC)	WPT	22007	155		4	4	22	22	**	144	-	+	36	50@	20	50-	20	100	40	100
			Total	15	2	16	33		210	Page	90	- H	300	-	200	24	200	227	400	-	700

Student Contact Hours Per Week: 33 Hrs. Medium of Instruction: English

Theory and practical periods of 60 minutes each. Total Marks: 700

Abbreviations: ESE- End Semester Exam, PA- Progressive Assessment, L - Lectures, T - Tutorial, P - Practical

@ Internal Assessment, # External Assessment, *# On Line Examination , * Computer Based Assessment

* Under the theory PA, Out of 30 marks, 10 marks are for micro-project assessment (5 marks each for Physics and Chemistry) to facilitate integration of COs and the remaining 20 marks is the average of 2 tests to be taken during the semester for the assessment of the cognitive domain LOs required for the attainment of the COs.

For the courses having ONLY Practical Examination, the PA has two parts, marks for: (i) Practical Part - 60% of total marks (ii) Micro-Project Part - 40% of total marks

Candidate remaining absent in practical examination of any one part of Basic Science course i.e. Physics, Chemistry will be declare as Absent in Mark

List and has to appear for examination. The marks of the part for which candidate was present will not be processed or carried forward.

If Candidate not securing minimum marks for passing in the "PA" part of practical of any course of any semester then the candidate shall be declared as "Detained" for that semester.

MSBTE Final Copy Dt. 07.05.2017

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Maharashtra State Board of Technical Education, Mumbai

Teaching and Examination Scheme for Post S.S.C. Diploma Courses

Program Name: Civil Engineering Groups

Program Code : CE/CR/ CS

With Effect From Academic Year: 2017 - 18

Duration of Program: 6 Semesters

Duration: 16 Weeks

Semester: Second

Scheme - I

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					eachii chem	100							Exam	ination S	Scheme						
e.		Course	- 2240000000				900		Theory			Pract	ical	-							
S.	Course Title	Abbre	Course Code			1	(L+T+P)		ES	E	P	A	To	otal	ES	E.	P	A	To	tat	Grane
1		viation		L	Т	Р	(E-1-17)	Exam Duration in Hrs.	Max Marks	Min Marks	Max Marks	Min Marks	Tetal								
1	Applied Mathematics	AMS	22201	3	ī		4	3	70	28	30*	00	100	40	200			-		44	100
2	Applied Physics	ASM	22202	2	=	4	8	90 Min	70*#	28	15*	00	100	40	25(a)	10	25	10	50	20	
	Science Chemistry	-		2				Min		100	15*	00	100	40	25@	10	25	10	50	20	200
3	Applied Mechanics	AME	22203	3	1	2	6	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
4	Construction Materials	CMA	22204	3	(B)	2	5	3	70	28	30*	00	100	40	25(a)	10	25	10	50	20	150
5	Basic Surveying	BSU	22205	3	2	4	7	3	70	28	30*	00	100	40	50#	20	50	20	The second second		Charles Com-
6	Civil Engineering Workshop and Practice	CEW	22008	12	3	4	4	77.0	**	155		177	***	80	50#	20	50~	20	100	40	100
7	Business Communication Using Computers	BCC	22009	3-	81	2	2	55.	4	144	32	-35	542		35@^	14	15-	06	50	20	50
	J. C H. D. W.		Total	16	2	18	36		350		150	(4.4)	500		235	44	215		450	- 22	950

Student Contact Hours Per Week: 36 Hrs.

Medium of Instruction: English

Theory and practical periods of 60 minutes each.

Total Marks: 950

Abbreviations: ESE- End Semester Exam, PA- Progressive Assessment, L - Lectures, T - Tutorial, P - Practical

@ Internal Assessment, # External Assessment, *# On Line Examination . * Computer Based Assessment

* Under the theory PA, Out of 30 marks, 10 marks are for micro-project assessment (5 marks each for Physics and Chemistry) to facilitate integration of COs and the remaining 20 marks is the average of 2 tests to be taken during the semester for the assessment of the cognitive domain LOs required for the attainment of the COs.

- For the courses having ONLY Practical Examination, the PA marks Practical Part - with 60% weightage and Micro-Project Part with 40% weightage

➤ It is mandetory for the candidate to appear for practical (ESE) of both the part of Applied Science (Physics & Chemistry). Candidate remaining absent in exam of any one part, will be considered as absent for the head ESE (PR) of Applied Science.

If Candidate not securing minimum marks for passing in the "PA" part of practical of any course of any semester then the candidate shall be declared as

"Detained" for that semester.

MSBTE - Final Copy Dt. 30.10.2017



Teaching and Examination Scheme for Post S.S.C. Diploma Courses

Program Name: Civil Engineering Groups

Program Code: CE/CR/CS Duration of Program: 6 Semesters

Semester: Third

With Effect From Academic Year: 2017 - 18

Duration: 16 Weeks

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s.		Course	Course							1	heory						Prac	tical		-	
N.	Course Title	Abbre viation	Code		т		Credit (L+T+P)		ES	ESE P.		PA		tal	ESE		-	A	To	tal	Grand
		Yeation		L	1	P		Exam Duration in Hrs.	Max Marks	Min Marks	Total										
1	Advanced Surveying	ASU	22301	3		4	7	3	70	28	30*	00	100	40	50#	20	50	20	100	40	200
2	Highway Engineering	HEN	22302	3		2	5	3	70	28	30*	1000	11.000	200		-	50	20	100	40	200
3	Mechanics of Structures	MOS	ELIO AVENT	-	-	200	-	-3				00	100	40	25@	10	25	10	50	20	150
2711	The state of the s		22303	3	2	2	7	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
4	Building Construction	BCO	22304	3		2	5	3	70	28	30*	00	100	40		10	25	-		2000	
3	Concrete Technology	CTE	22305	3	2	2	5	2		1	11/2/0	100	20.00		25@	10560331	1000	10	50	20	150
6	Computer Aided Drawing	Total State of the last of the	Market Street	-	12	-	199	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
	Computer Aided Drawing	CAD	22022	*	*	4	4	44			- 0.0		440		50@	20	50~	20	100	40	100
Cell	lent Contact Hours Per Wee		Total	15	2	16	33		350		150		500		200	**	200		400		900

Student Contact Hours Per Week: 33 Hrs.

Medium of Instruction: English

Theory and practical periods of 60 minutes each.

Total Marks: 900

Abbreviations: ESE- End Semester Exam, PA- Progressive Assessment, L - Lectures, T - Tutorial, P - Practical

@ Internal Assessment, # External Assessment, *# On Line Examination , ^ Computer Based Assessment

* Under the theory PA, Out of 30 marks, 10 marks are for micro-project assessment to facilitate integration of COs and the remaining 20 marks is the average of 2 tests to be taken during the semester for the assessment of the cognitive domain LOs required for the attainment of the COs.

- For the courses having ONLY Practical Examination, the PA marks Practical Part - with 60% weightage and Micro-Project Part with 40% weightage > If Candidate not securing minimum marks for passing in the "PA" part of practical of any course of any semester then the candidate shall be declared as





Teaching and Examination Scheme for Post S.S.C. Diploma Courses

Program Name: Civil Engineering Groups

Program Code: CE/CR/CS

Duration of Program: 6 Semesters

With Effect From Academic Year: 2017 - 18

Duration: 16 Weeks

Semester : Fourth

Scheme - I

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_		Course	1000							Т	heory						Prac	tical			
S. N.	Course Title	Abbre	Course Code				Credit (L+T+P)		ES	E	P	A	To	tal	ES	E	P	A	To	tal	Grand
		viation	Code	L	Т	P	(2-1-1)	Exam Duration in Hrs.	Max Marks	Min Marks	Total										
1	Hydraulics	HRY	22401	3	2	2	7	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
2	Theory of Structures	TOS	22402	4	2	-	6	4	70	28	30*	00	100	40				22			100
3	Railway and Bridge Enginering	RBE	22403	4	-	-	4	3	70	28	30*	00	100	40	.55				-		100
4	Geo-Technical Engineering	GTE	22404	3	-	2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
5	Building Planning and Drawing	BPD	22405	3	4	4	7	4	70	28	30*	00	100	40	50#	20	50	20	100	40	200
6	Environmental Studies	EST	22447	3	-	-	3	90 Min	70*#	28	30*	00	100	40					-		100
			Total	20	4	08	32		420	570	180		600		100		100		200		800

Student Contact Hours Per Week: 32 Hrs.

Medium of Instruction: English

Theory and practical periods of 60 minutes each.

Total Marks: 800

Abbreviations: ESE- End Semester Exam, PA- Progressive Assessment, L - Lectures, T - Tutorial, P - Practical

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~ For the courses having ONLY Practical Examination, the PA marks Practical Part - with 60% weightage and Micro-Project Part with 40% weightage

If Candidate not securing minimum marks for passing in the "PA" part of practical of any course of any semester then the candidate shall be declared as "Detained" for that semester.

In-Plant Training during Summer vacation for minimum Six Weeks at the end of Fourth Semester (Second Year).

Teaching and Examination Scheme for Post S.S.C. Diploma Courses

Program Name: Civil Engineering Groups

Program Code: CE/CR/ CS With Effect From Academic Year: 2017 - 18

Duration of Program: 6 Semesters Duration: 16 Weeks

Sei	mester : Fifth													Schen	ne - I						
					eachi chen								Exami	nation S	Scheme						
										ä	Theory	eory				Prac	tical				
S. N.	Course Title	Course Abbrev	Course Code				Credit (L+T+P	Exam	ES	E	P	A	To	tal	ES	E	P	A	То	tal	Grand Total
		iation		L	Т	P)	Duratio n in Hrs.	Max Marks	Min Mar ks	Max Mar ks	Min Mar ks	Max Mark s	Min Mar ks	Max Marks	Min Mar ks	Max Marks	Min Mark s	Max Mark s	Min Mar ks	
1	Water Resource Engineering	WRE	22501	3		2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
2	Design of Steel and RCC Structures	DSR	22502	4	1	2	7	4	70	28	30*	00	100	40	25#	10	25	10	50	20	150
3	Estimating and Costing	EAC	22503	3	-	4	7	3	70	28	30*	00	100	40	50#	20	50	20	100	40	200
4	Public Health Engineering	PHE	22504	3		2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
	Elective (Any One)																				8
	Rural Development	RDE	22505	3	100	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
5	Energy Conservation and Green Building	ECG	22506	3	123	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
	Traffic Engineering	TEN	22507	3	(*)	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
	Precast and Pre-Stressed Concrete	PPC	22508	3		2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
6	Industrial Training	ITR	22057		-	6	6	12 44		-			-		75#	30	75	30	150	60	150
7	Capstone Project Planning	CPP	22058	150		2	2	9773	-	155	153	355	77.0	1550	25@	10	25	10	50	20	50
			Total	16	1	20	37		350	12	150	122	500		250	-	250	-	500	-	1000

Student Contact Hours Per Week: 37 Hrs. Medium of Instruction: English

Theory and practical periods of 60 minutes each. Total Marks: 1000

Abbreviations: ESE- End Semester Exam, PA- Progressive Assessment, L - Lectures, T - Tutorial, P - Practical

- @ Internal Assessment, # External Assessment, *# On Line Examination , @^ Computer Based Assessment
- * Under the theory PA, Out of 30 marks, 10 marks are for micro-project assessment to facilitate integration of COs and the remaining 20 marks is the average of 2 tests to be taken during the semester for the assessment of the cognitive domain LOs required for the attainment of the COs.
- ~ For the courses having ONLY Practical Examination, the PA marks Practical Part with 60% weightage and Micro-Project Part with 40% weightage
 - > If Candidate not securing minimum marks for passing in the "PA" part of practical of any course of any semester then the candidate shall be declared as "Detained" for that semester.
 - > Evalution of Industrial Training and its reports is to done after completion of Industrial Training. Credits of Industrial Training will not affect the framing of time table.



Teaching and Examination Scheme for Post S.S.C. Diploma Courses

Program Name: Diploma in Civil Engineering / Diploma in Civil and Rural Engineering / Diploma in Construction Technology

Program Code: CE/CR/ CS

With Effect From Academic Year: 2017 - 18

Duration of Program : 6 Semesters Duration : 16 Weeks

Semester: Sixth Scheme - I

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		Course					Credit				heory						Prac				Gran
S. N.	Course Title	Abbre	Course			_	(L+T+P)	Exam	ES	E	P	A	To	tal	ES	E	P.	A	To	tal	Total
	f.,	viation	27 33000-14	L	Т	P	35	Duration in Hrs.	Max Marks	Min Marks											
1	Management	MAN	22509	3		-	3	90 Min	70*#	28	30*	00	100	40	**			22			100
2	Contracts and Accounts	CAA	22601	3		2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
3	Maintenance and Repairs of Structures	MRS	22602	4		2	6	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
4	Emerging Trends in Civil Engineering	ETC	22603	3	-	14	3	90 Min	70*#	28	30*	00	100	40	***	18.50	<i>-</i> 75	-			100
	Elective - II (Select Any	One)												-							
	Building Services	BSE	22604	3	(4)	2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
	Solid Waste Management	SWM	22605	3	-	2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
5	Earthquake Resistant Buildings	ERB	22606	3	988	2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
	Advanced Design of Structures	ADE	22607	3	•	2	5	4	70	28	30*	00	100	40	25#	10	25	10	50	20	150
6	Capstone Project - Execution & Report Writing	CPE	22060			4	4							-	50#	20	50~	20	100	40	100
7	Construction Management	CMA	22061	1		2	3	**	1			••	*	344	25@	10	25~	10	50	20	50
8	Entreprenuership Development	EDP	22032	2		2	4	2-	144				law.	-	50@	20	50~	20		FAUX	100
			Total	19	-	14	33		350	**	150	**	500		200		200	1/2/	400	(3)	900

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Student Contact Hours Per Week: 33 Hrs.

Medium of Instruction: English

Theory and practical periods of 60 minutes each.

Total Marks: 900

Abbreviations: ESE- End Semester Exam, PA- Progressive Assessment, L - Lectures, T - Tutorial, P - Practical

@ Internal Assessment, # External Assessment, *# On Line Examination, @^ Computer Based Assessment

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