



Maharashtra State Board of Technical Education, Mumbai

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/EQ/ET/EX/IE/MU/EE/EP/EU/IS/IC/AE/FG/ME/PG/PT/DC/TX/TC

Duration of Course: 6 Semesters

With Effect From Academic Year: 2017 - 18

Semester : First

Duration : 16 Weeks

S. N.	Course Title	Abbreviation	Sub. Code	Teaching Scheme			Credit (L+T+P)	Examination Scheme												Grand Total	
				L	T	P		Theory						Practical							
								Paper Hrs.	ESE		PA		Total		ESE		PA		Total		
									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 Science	BSC	22102	2	--	2	4	2	70*#	28	15*	00	100	40	25@	10	25	10	50	20	200
				2	--	2	4				15*	00			25@	10	25	10	50	20	
3	Basic Mathematics	BMS	22103	4	2	--	6	3	70	28	30*	00	100	40	--	--	--	--	--	--	100
4	Fundamentals of ICT	ICT	22001	2	--	2	4	--	--	--	--	--	--	--	25@^	10	25~	10	50	20	50
5	Engineering Graphics (For CE, CR, CS, ME, AE, PG, PT, FG, EE, EP, EU, CH, PS, DC, TC, TX)	EGM	22002	2	--	4	6	--	--	--	--	--	--	--	50@	20	50~	20	100	40	100
	Engineering Graphics (For DE, EJ, ET, EN, EX, EQ, IC, IE, IS, MU, CO, CM, CW, IF)	EGE	22003	2	--	4	6	--	--	--	--	--	--	--	50@	20	50~	20	100	40	100
6	Workshop Practice. (For CE, CR, CS, ME, AE, PG, PT, FG, EE, EP, EU, CH, PS.)	WPM	22004	--	--	4	4	--	--	--	--	--	--	--	50@	20	50~	20	100	40	100
	Workshop Practice. (For CO, CM, CW, IF)	WPC	22005	--	--	4	4	--	--	--	--	--	--	--	50@	20	50~	20	100	40	100
	Workshop Practice. (For DE, EJ, ET, EN, EX, EQ, IC, IE, IS, MU)	WPE	22006	--	--	4	4	--	--	--	--	--	--	--	50@	20	50~	20	100	40	100
	Workshop Practice. (For TX, TC, DC)	WPT	22007	--	--	4	4	--	--	--	--	--	--	--	50@	20	50~	20	100	40	100
<b>Total</b>				<b>15</b>	<b>2</b>	<b>16</b>	<b>33</b>	--	<b>210</b>	--	<b>90</b>	--	<b>300</b>	--	<b>200</b>	--	<b>200</b>	--	<b>400</b>	--	<b>700</b>

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 declared 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.

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**Maharashtra State Board Of Technical Education, Mumbai**  
**Teaching and Examination Scheme for Post S.S.C. Diploma Courses**

**Program Name : Computer Engineering Groups**

**Program Code : CO/CM/IF/CW**

**Duration of Program : 6 Semesters**

**With Effect From Academic Year: 2017 - 18**

**Semester : Second**

**Duration : 16 Weeks**

S. N.	Course Title	Course Abbreviation	Course Code	Teaching Scheme			Credit (L+T+P)	Examination Scheme														Grand Total
				L	T	P		Theory								Practical						
								ESE		PA		Total		ESE		PA		Total				
								Exam Duration in Hrs.	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks		
1	Elements of Electrical Engineering	EEC	22215	4	-	2	6	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150	
2	Applied Mathematics	AMI	22224	4	2	-	6	3	70	28	30*	00	100	40	--	--	--	--	--	--	100	
3	Basic Electronics	BEC	22225	3	-	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150	
4	Programming in 'C'	PCI	22226	3	2	2	7	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150	
5	Business Communication Using Computers	BCC	22009	-	-	2	2	--	--	--	--	--	--	--	35@^	14	15~	06	50	20	50	
6	Computer Peripheral and Hardware Maintenance	CPH	22013	2	-	2	4	--	--	--	--	--	--	--	50#	20	50~	20	100	40	100	
7	Web Page Designing with HTML	WPD	22014	2	-	2	4	--	--	--	--	--	--	--	50@	20	50~	20	100	40	100	
<b>Total</b>				<b>18</b>	<b>4</b>	<b>12</b>	<b>34</b>	<b>--</b>	<b>280</b>	<b>--</b>	<b>120</b>	<b>--</b>	<b>400</b>	<b>--</b>	<b>210</b>	<b>--</b>	<b>190</b>	<b>--</b>	<b>400</b>	<b>--</b>	<b>800</b>	

Student Contact Hours Per Week: **34 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

@ 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

➤ **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.**





**Maharashtra State Board of Technical Education, Mumbai**  
**Teaching and Examination Scheme for Post S.S.C. Diploma Courses**

**Program Name : Diploma in Information Technology**

**Program Code : IF**

**Duration of Program : 6 Semesters**

**With Effect From Academic Year: 2017 - 18**

**Semester : Third**

**Duration : 16 Weeks**

S. N.	Course Title	Course Abbreviation	Course Code	Teaching Scheme			Credit (L+T+P)	Examination Scheme												Grand Total	
				L	T	P		Theory						Practical							
								ESE		PA		Total		ESE		PA		Total			
								Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks		
1	Object Oriented Programming Using C++	OOP	22316	3	2	2	7	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
2	Data Structure Using 'C'	DSU	22317	3	-	2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
3	Principles of Database	POD	22321	3	-	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
4	Data Communication	DCO	22322	3	-	-	3	3	70	28	30*	00	100	40	--	--	--	--	--	--	100
5	Digital Techniques and Microprocessor	DTM	22323	4	-	2	6	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
6	Applied Multimedia Techniques	AMT	22024	2	-	4	6	--	--	--	--	--	--	--	50#	20	50~	20	100	40	100
<b>Total</b>				<b>18</b>	<b>2</b>	<b>12</b>	<b>32</b>	<b>--</b>	<b>350</b>	<b>--</b>	<b>150</b>	<b>--</b>	<b>500</b>	<b>--</b>	<b>150</b>	<b>--</b>	<b>150</b>	<b>--</b>	<b>300</b>	<b>--</b>	<b>800</b>

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

@ 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

> **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.**





**Maharashtra State Board of Technical Education, Mumbai**  
**Teaching and Examination Scheme for Post S.S.C. Diploma Courses**

**Program Name : Diploma in Information Technology**

**Program Code : IF**

**With Effect From Academic Year: 2017 - 18**

**Duration of Program : 6 Semesters**

**Duration : 16 Weeks**

**Semester : Fourth**

**Scheme : I**

S. N.	Course Title	Course Abbreviation	Course Code	Teaching Scheme			Credit (L+T+P)	Examination Scheme														Grand Total
				L	T	P		Theory						Practical								
								ESE		PA		Total		ESE		PA		Total				
								Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks			
1	Java Programming	JPR	22412	3	-	4	7	3	70	28	30*	00	100	40	50#	20	50	20	100	40	200	
2	Software Engineering	SEN	22413	3	-	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150	
3	Database Management	DCC	22416	3	-	4	7	3	70	28	30*	00	100	40	50#	20	50	20	100	40	200	
4	Computer Network	MIC	22417	3	-	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150	
5	GUI Application Development using VB.Net	GAD	22034	2	-	4	6	--	--	--	--	--	--	--	50#	20	50~	20	100	40	100	
<b>Total</b>				<b>14</b>	<b>-</b>	<b>16</b>	<b>30</b>	<b>--</b>	<b>280</b>	<b>--</b>	<b>120</b>	<b>--</b>	<b>400</b>	<b>--</b>	<b>200</b>	<b>--</b>	<b>200</b>	<b>--</b>	<b>400</b>	<b>--</b>	<b>800</b>	

Student Contact Hours Per Week: **30 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

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





**Maharashtra State Board of Technical Education, Mumbai**  
**Teaching and Examination Scheme for Post S.S.C. Diploma Courses**

**Program Name : Diploma in Information Technology**

**Program Code : IF**

**With Effect From Academic Year: 2017 - 18**

**Duration of Program : 6 Semesters**

**Duration : 16 Weeks**

**Semester : Fifth**

**Scheme : I**

S. N.	Course Title	Course Abbreviation	Course Code	Teaching Scheme			Credit (L+T+P)	Examination Scheme													Grand Total
				L	T	P		Theory						Practical							
								Exam Duration in Hrs.	ESE		PA		Total		ESE		PA		Total		
									Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	
1	Environmental Studies	EST	22447	3	-	-	3	90 Min	70*#	28	30*	00	100	40	--	--	--	--	--	--	100
2	Operating Systems	OSY	22516	3	-	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
3	Advanced Java Programming	AJP	22517	3	1	2	6	90 Min	70*#	28	30*	00	100	40	25#	10	25	10	50	20	150
<b>Elective (Any One)</b>																					
4	Client Side Scripting Language	CSS	22519	3	-	2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
	Advanced Computer Network	ACN	22520	3	-	2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
	Open Source Operating Systems & Scripting Language	LOS	22522	3	-	2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
5	Enterpreneuship Development	EDE	22032	2	-	2	4	--	--	--	--	--	--	--	50@	20	50~	20	100	40	100
6	Industrial Training	ITR	22057	-	-	6	6	--	--	--	--	--	--	--	75#	30	75	30	150	60	150
7	Capstone Project Planning	CPP	22058	-	-	2	2	--	--	--	--	--	--	--	25@	10	25	10	50	20	50
<b>Total</b>				<b>14</b>	<b>1</b>	<b>16</b>	<b>31</b>	<b>--</b>	<b>280</b>	<b>--</b>	<b>120</b>	<b>--</b>	<b>400</b>	<b>--</b>	<b>225</b>	<b>--</b>	<b>225</b>	<b>--</b>	<b>450</b>	<b>--</b>	<b>850</b>

Student Contact Hours Per Week: **31 Hrs.**

Medium of Instruction: **English**

**Theory and practical periods of 60 minutes each.**

Total Marks : **850**

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

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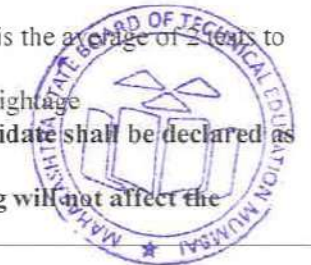
\* Under the theory PA, Out of 30 marks, 10 marks are for micro-project assessment to facilitate integration of COs and the remaining 20 marks is the average of 2 tests to be taken during the semester for the assessment of the cognitive domain LOs required for the attainment of the COs.

- 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.**

➤ **Evaluation 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.**

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**Maharashtra State Board of Technical Education, Mumbai**

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

**Program Name : Diploma in Information Technology**

**Program Code : IF**

**With Effect From Academic Year: 2017 - 18**

**Duration of Program : 6 Semesters**

**Duration : 16 Weeks**

**Semester : Sixth**

**Scheme : I**

S. N.	Course Title	Course Abbreviation	Course Code	Teaching Scheme			Credit (L+T+P)	Examination Scheme												Grand Total	
				L	T	P		Theory						Practical							
								Exam Duration in Hrs.	ESE		PA		Total		ESE		PA		Total		
Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks								
1	Management	MGT	22509	3	-	-	3	90 Min	70*#	28	30*	00	100	40	--	--	--	--	--	--	100
2	Mobile Application Development	MAD	22617	3	-	4	7	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150
3	Emerging Trends in Computer & Information Technology	ETI	22618	3	-	-	3	90 Min	70*#	28	30*	00	100	40	--	--	--	--	--	--	100
4	Wireless and Mobile Networks	WMN	22622	3	-	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
<b>Elective – II (Select Any One)</b>																					
5	Web Based Application Development Using PHP	WBP	22619	3	-	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
	Network and Information Security	NIS	22620	3	-	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150
	Cloud Computing	CCS	22624	3	-	2	5	3	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
<b>Total</b>				<b>15</b>	<b>-</b>	<b>12</b>	<b>27</b>	<b>--</b>	<b>350</b>	<b>--</b>	<b>150</b>	<b>--</b>	<b>500</b>	<b>--</b>	<b>125</b>	<b>--</b>	<b>125</b>	<b>--</b>	<b>250</b>	<b>--</b>	<b>750</b>

Student Contact Hours Per Week: 27 Hrs.

Medium of Instruction: English

Theory and practical periods of 60 minutes each.

Total Marks : 750

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

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➤ 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.

