



**MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION**  
(Autonomous) (ISO 9001:2008) (ISO/IEC 27001:2013)

4<sup>th</sup> Floor, Government Polytechnic Building, 49, Kherwadi, Bandra (East), Mumbai 400 051.

Tel. No. : 022-26475077 / 26471255

Email : [secretary@msbte.com](mailto:secretary@msbte.com)

Fax : 022-26473980

Web : [www.msbte.com](http://www.msbte.com)

No. MSBTE/D-53/CDC/Transcript/2018/ 676

Date:- 30 JAN 2018

**TRANSCRIPT**

This is to certify that **Mr./Ms. JOSHI RAJASHREE ACHYUT** has completed Full Time **Diploma In Computer Engineering** of Six Semesters duration, from an affiliated institute of **Maharashtra State Board of Technical Education, Mumbai**. The student studied during the academic years **2009 to 2012** at **K. K. Wagh Polytechnic, Chandori, Tal. Niphad, Dist. Nashik** having Code No. **1168**.

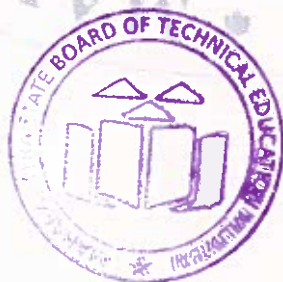
The said Diploma Course is approved by All India Council for Technical Education, New Delhi and Government of Maharashtra.

The medium of instruction for this Course is English. The Teaching & Examination scheme for the said course is attached herewith.

The award of class is based on the marks secured by the student at the 5<sup>th</sup> & 6<sup>th</sup> Semester taken together. The student has secured **1229 Marks** out of **1550 (79.29%)** for the award of his/her diploma and has been placed in the **First Class Dist.** MSBTE does not adopt Grade Point Average (GPA) system of evaluation.

Details about award of class are as indicated below.

Percentages of Marks	Class Awarded
75% and above	First class with Distinction
60% to less than 75%	First Class
45% to less than 60%	Second Class
40% to less than 45%	Pass Class
40%	Minimum Passing Percentage



*(Signature)*  
(U. T. Nagdeve, Dy. Secretary)  
Authorized Signatory  
Maharashtra State  
Board of Technical Education  
Mumbai-400 051.



**MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI**  
**TEACHING AND EXAMINATION SCHEME FOR POST S.S.C. DIPLOMA COURSES**

**COURSE NAME : ELECTRONICS / MECHANICAL / CIVIL / COMPUTER / ELECTRICAL / CHEMICAL ENGINEERING GROUPS**  
**COURSE CODE : E/JEN/ET/EX/EV/IC/ET/SM/DE/ME/PG/PT/AE/CE/CS/CR/CO/CM/FE/EE/EP/CH/CT/PS/CD/ED/EI/CE/MH/FE/ITU/MI**  
**DURATION OF COURSE: 6 SEMESTERS for E/JEN/ET/EX/EV/IC/ET/SM/DE/ME/PG/PT/AE/CE/CS/CR/CO/CM/FE/EE/EP/CH/CT/PS (8 SEMESTERS for CD/ET/CE/MI/FE/ITU/MI)**  
**DURATION : 16 WEEKS**

**SEMESTER : FIRST**

**PATTERN : FULL TIME - SEMESTER**

**SCHEME : E**

**EXAMINATION SCHEME**

SR. NO.	SUBJECT TITLE	Abbreviation	SUB CODE	TEACHING SCHEME			PAPER HRS	TH (1)		PR (4)		OR (8)		TW (9)	
				TH	TU	PR		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	Basic Physics	PHY	12001	03	--	02	03	100	40	50@	20	--	--	--	--
2	Basic Chemistry	CHY	12002	03	--	02	03	100	40	50@	20	--	--	--	--
3	Basic Mathematics	BMS	12003	04	01	--	03	100	40	--	--	--	--	--	--
4	English	ENG	12004	03	--	02	03	100	40	--	--	--	--	25@	10
5	Engineering Graphics	EGG	12005	02	--	04	--	--	--	50#	20	--	--	50@	20
6	Computer Fundamentals	CMF	12006	--	--	04	--	--	--	50*#	20	--	--	25@	10
	Basic Workshop Practice (Civil Group)	WPC	12007	01	--	04	--	--	--	--	--	--	--	25@	10
	Basic Workshop Practice (Electrical Group)	WPE	12008	01	--	04	--	--	--	--	--	--	--	25@	10
	Basic Workshop Practice (Electronics Group)	WPX	12009	01	--	04	--	--	--	--	--	--	--	25@	10
	Basic Workshop Practice (Mechanical & Chemical Group)	WPM	12010	01	--	04	--	--	--	--	--	--	--	25@	10
	Basic Workshop Practice (Computer Group)	WPI	12011	01	--	04	--	--	--	--	--	--	--	25@	10
<b>TOTAL</b>				<b>16</b>	<b>01</b>	<b>18</b>	<b>--</b>	<b>400</b>	<b>--</b>	<b>200</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>125</b>	<b>--</b>

Student Contact Hours Per Week: **35 Hrs.**

Theory and practical periods of 60 minutes each.

Total Marks : 775

@ Internal Assessment, # External Assessment, \* On Line Examination, [ ] No Theory Examination.

Abbreviations: TH-Theory, TU- Tutorial, PR-Practical, OR-Oral, TW- Term work, SW- Sessional Work

- > Conduct two class tests each of 25 marks for each theory subject. Sum of the total test marks of all subjects is to be converted out of 50 marks as shown (SW).
- > Progressive evaluation is to be done by subject teacher as per the prevailing curriculum implementation and assessment norms
- > Code number for TH, PR, OR and TW are to be given as suffix 1, 4, 8, 9 respectively to the subject code as mentioned.





# MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

## TEACHING AND EXAMINATION SCHEME FOR POST S.S.C. DIPLOMA COURSES

COURSE NAME : COMPUTER ENGINEERING GROUP

COURSE CODE : CO/CM/IF/CD

DURATION OF COURSE : 6 SEMESTERS For CO/CM/IF ( 8 SEMESTERS for CD)

SEMESTER : SECOND

WITH EFFECT FROM 2009-10

DURATION : 16 WEEKS

FULL TIME / PART TIME : FULL TIME

SCHEME : E

SR. NO.	SUBJECT TITLE	Abbreviation	SUB CODE	TEACHING SCHEME			EXAMINATION SCHEME										S (16)
				TH	TU	PR	PAPER HRS.	TH (1)		PR (4)		OR (8)		TW (9)			
								Max	Min	Max	Min	Max	Min	Max	Min		
1	Communication Skills	CMS	12012	02	--	02	03	100	40	--	--	25#	10	25@	10		
2	Engineering Mathematics	EMS	12013	03	01	--	03	100	40	--	--	--	--	--	--		
3	Electronics	ETX	12025	03	--	02	03	100	40	50@	20	--	--	--	--		
4	Electrical Technology	ETG	12026	04	--	02	03	100	40	--	--	--	--	25@	10		
5	Programming in 'C'	PIC	12027	04	--	02	03	100	40	50#	20	--	--	25@	10		
6	Web Page Designing	WPD	12028	--	--	04	--	--	--	50@	20	--	--	--	--		
7	Development of Life Skills-I	DLS	12018	01	--	02	--	--	--	--	--	25#	10	25@	10		
8	Professional Practices-II	PPS	12029	--	--	02	--	--	--	--	--	--	--	50@	20		
Total				17	01	16	--	500	--	150	--	50	--	150	--	5	

Student Contact Hours Per Week: 34 Hrs.

THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH.

Total Marks : 900

@ Internal Assessment, # External Assessment, No Theory Examination.

Abbreviations: TH-Theory, TU- Tutorial, PR-Practical, OR-Oral, TW- Term work, SW- Sessional Work

- Conduct two class tests each of 25 marks for each theory subject. Sum of the total test marks of all subjects is to be converted out of 50 mark sessional work (SW).
- Progressive evaluation is to be done by subject teacher as per the prevailing curriculum implementation and assessment norms.
- Code number for TH, PR, OR and TW are to be given as suffix 1, 4, 8, 9 respectively to the subject code.





**MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI**  
**TEACHING AND EXAMINATION SCHEME FOR POST S.S.C. DIPLOMA COURSES**

**COURSE NAME : DIPLOMA IN COMPUTER ENGINEERING / COMPUTER TECHNOLOGY / INFORMATION TECHNOLOGY.**

**COURSE CODE : CO/CM/IF/CD**

**DURATION OF COURSE : SIX SEMESTERS for CO/CM/IF and EIGHT SEMESTERS for CD WITH EFFECT FROM 2009-10**

**YEAR / SEMESTER : THIRD SEMESTER DURATION : 16 WEEKS**

**FULL TIME / PART TIME : FULL TIME SCHEME : E**

SR. NO.	SUBJECT TITLE	Abbreviation	SUBJECT CODE	TEACHING SCHEME			EXAMINATION SCHEME & MAXIMUM MARKS									
				TH	TU	PR	PAPER HRS	TH		PR		OR		TW		
								Max	Min	Max	Min	Max	Min	Max	Min	
1.	Applied Mathematics	AMT	12062	03	--	--	03	100	40	--	--	--	--	--	--	SV (160)
2.	Object Oriented Programming	OOP	12063	04	--	04	03	100	40	50#	20	--	--	25@	10	
3.	Digital Techniques	DTE	12064	03	--	02	03	100	40	--	--	--	--	25@	10	SV
4.	Relational Data Base Management Systems	RDB	12065	04	--	04	03	100	40	--	--	25#	10	25@	10	
5.	Visual Basic	VBA	12066	--	--	04	--	--	--	50@	20	--	--	--	--	
6.	Professional Practices-III	PPR	12067	--	--	05	--	--	--	--	--	--	--	50@	20	
TOTAL				14	--	19	--	400	--	100	--	25	--	125	--	SV

Student Contact Hours Per Week: 33 Hrs.

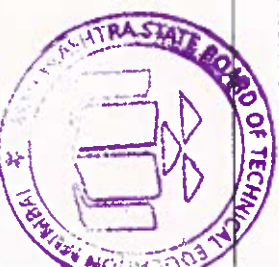
**THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH.**

Total Marks : 700

@ Internal Assessment, # External Assessment, [ ] No Theory Examination.

Abbreviations: TH-Theory, TU- Tutorial, PR-Practical, OR-Oral, TW- Term work, SW- Sessional Work.

- Conduct two class tests each of 25 marks for each theory subject. Sum of the total test marks of all subjects is to be converted out of 50 marks as sessional work (SW).
- Progressive evaluation is to be done by subject teacher as per the prevailing curriculum implementation and assessment norms.
- Code number for TH, PR, OR, TW are to be given as suffix 1, 4, 8, 9 respectively to the subject code.

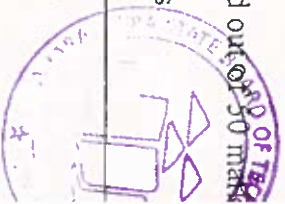



**MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI**
**TEACHING AND EXAMINATION SCHEME FOR POST S.S.C. DIPLOMA COURSES**
**COURSE NAME : DIPLOMA IN COMPUTER ENGINEERING / COMPUTER TECHNOLOGY**
**COURSE CODE : CO / CM / CD**
**DURATION OF COURSE : 6 SEMESTERS for CO/CM and 8 SEMESTERS for CD**
**WITH EFFECT FROM 2009-10**
**SEMESTER : FOURTH**
**DURATION : 16 WEEKS**
**PATTERN : FULL TIME - SEMESTER**
**SCHEME : E**

SR. NO.	SUBJECT TITLE	Abbreviation	SUB CODE	TEACHING SCHEME			EXAMINATION SCHEME										SW (16004)
				TH	TU	PR	PAPER HRS	TH (01)		PR (04)		OR (08)		TW (09)			
								MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		
1	Microprocessor & Programming	MPO	12109	03	--	02	03	100	40	50@	20	--	--	--	--		
2	Computer Networks	CNE	12110	03	--	02	03	100	40	--	--	--	25@	10			
3	Data Structure	DST	12111	03	--	04	03	100	40	50#	20	--	25@	10			
4	Computer Graphics	CGA	12112	03	--	02	03	100	40	--	--	25@	10	--			
5	Computer Architecture & Maintenance	CAM	12113	03	--	02	03	100	40	--	--	25#	10	25@	10	50	
6	Development of Life Skills -II	DLS	12041	01	--	02	--	--	--	--	--	25#	10	25@	10		
7	Professional Practices-IV	PPR	12114	--	--	05	--	--	--	--	--	--	--	50@	20		
TOTAL				16	--	19	--	500	--	100	--	75	--	150	--	50	

**Student Contact Hours Per Week: 35 Hrs.**
**THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH.**
**Total Marks : 875**
**@ Internal Assessment, # External Assessment, [ ] No Theory Examination.**
**Abbreviations: TH-Theory, TU- Tutorial, PR-Practical, OR-Oral, TW- Term work, SW- Sessional Work.**

- Conduct two class tests each of 25 marks for each theory subject. Sum of the total test marks of all subjects is to be converted out of 50 marks as sessional work (SW).
- Progressive evaluation is to be done by subject teacher as per the prevailing curriculum implementation and assessment norms.
- Code number for TH, PR, OR, TW are to be given as suffix 1, 4, 8, 9 respectively to the subject code.






**MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI**
**TEACHING AND EXAMINATION SCHEME FOR POST S.S.C. DIPLOMA COURSES**
**COURSE NAME : DIPLOMA IN COMPUTER ENGINEERING / COMPUTER TECHNOLOGY.**
**COURSE CODE : CO/CM**
**DURATION OF COURSE : SIX SEMESTERS**
**WITH EFFECT FROM 2009-10**
**YEAR / SEMESTER : FIFTH SEMESTER**
**DURATION : 16 WEEKS**
**PATTERN : FULL TIME - SEMESTER**
**SCHEME : E**

SR. NO.	SUBJECT TITLE	Abbreviation	SUB CODE	TEACHING SCHEME			EXAMINATION SCHEME									SW (16005)
				TH	TU	PR	PAPER HRS	TH (01) MAX	TH (01) MIN	PR (04) MAX	PR (04) MIN	OR (08) MAX	OR (08) MIN	TW (09) MAX	TW (09) MIN	
1	Software Engineering	SWE	12175	03	--	--	03	100	40	--	--	--	--	--	--	--
2	Java Programming	JPR	12176	03	--	04	03	100	40	50#	20	--	--	25@	10	--
3	Computer Security	COS	12177	03	--	--	03	100	40	--	--	--	--	--	--	--
4	Operating System	OPS	12178	03	--	02	03	100	40	--	--	--	--	25@	10	--
5	<b>Elective - I (Any One) for CM Only ( Computer Technology )</b>															
	Data Base Management	DBM	12179	03	--	04	03	100	40	--	--	--	--	25@	10	--
	Multimedia and Animation Technique	MAT	12180	03	--	04	03	100	40	--	--	--	--	25@	10	--
	<b>Elective - I (Any One) for CO ( Computer Engineering )</b>															
	Advanced Microprocessor	AMP	12181	03	--	04	03	100	40	--	--	--	--	25@	10	--
	Windows Programming	WPR	12182	03	--	04	03	100	40	--	--	--	--	25@	10	--
6	Network Management and Administration	NMA	12183	01	--	04	--	--	--	--	--	25#	10	25@	10	--
7	Professional Practices-v	PPR	12184	--	--	03	--	--	--	--	--	--	--	50@	20	--
<b>TOTAL</b>				<b>16</b>	<b>--</b>	<b>17</b>	<b>--</b>	<b>500</b>	<b>--</b>	<b>50</b>	<b>--</b>	<b>25</b>	<b>--</b>	<b>150</b>	<b>--</b>	<b>50</b>

**Student Contact Hours Per Week: 33 Hrs.**
**THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH.**
**Total Marks : 775**
**@ Internal Assessment, # External Assessment, [ ] No Theory Examination.**
**Abbreviations: TH-Theory, TU- Tutorial, PR-Practical, OR-Oral, TW- Term work, SW- Sessional Work.**

- Conduct two class tests each of 25 marks for each theory subject. Sum of the total test marks of all subjects is to be converted out of 50 marks as sessional work (SW).
- Progressive evaluation is to be done by subject teacher as per the prevailing curriculum implementation and assessment norms.
- Code number for TH, PR, OR, TW are to be given as suffix 1, 4, 8, 9 respectively to the subject code.





# MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

## TEACHING AND EXAMINATION SCHEME FOR POST S.S.C. DIPLOMA COURSES

COURSE NAME : DIPLOMA IN COMPUTER ENGINEERING / COMPUTER TECHNOLOGY.

COURSE CODE : CO/CM

DURATION OF COURSE : 6 SEMESTERS

YEAR / SEMESTER : SIXTH

PATTERN : FULL TIME - SEMESTER

WITH EFFECT FROM 2009-10

DURATION : 16 WEEKS

SCHEME : E

SR. NO.	SUBJECT TITLE	Abbreviation	SUB CODE	TEACHING SCHEME			EXAMINATION SCHEME										SW (16006)
				TH	TU	PR	PAPER HRS	TH (01)		PR (04)		OR (08)		TW (09)			
								MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		
1	Management	MAN	12219	03	--	--	03	100	40	--	--	--	--	--	--	--	
2	Software Testing	STG	12258	04	--	02	03	100	40	--	--	25@	10	--	--	--	
3	Advanced Java Programming	AJP	12259	03	--	04	03	100	40	50#	20	--	--	25@	10	10	
4	Entrepreneurship Development	EDP	12264	01	01	--	--	--	--	--	--	--	--	25@	10	10	
5	Industrial Projects	IPR	12265	--	--	06	--	--	--	--	--	50#	20	50@	20	20	
6	Professional Practices-VI	PPS	12266	--	--	05	--	--	--	--	--	--	--	50@	20	20	
7	Elective – II (Any One) for CM Only (Computer Technology)																50
	Object Oriented Modelling and Design	OMD	12260	02	--	04	03	100	40	--	--	25#	10	25@	10	10	
	Advanced Web Technology	AWT	12261	02	--	04	03	100	40	--	--	25#	10	25@	10	10	
7	Elective – II (Any One) for CO (Computer Engineering)																50
	Advanced Web Technology	AWT	12261	02	--	04	03	100	40	--	--	25#	10	25@	10	10	
	Embedded System	EDS	12262	02	--	04	03	100	40	--	--	25#	10	25@	10	10	
	Systems Programming	SPG	12263	02	--	04	03	100	40	--	--	25#	10	25@	10	10	
TOTAL				13	01	21	--	400	--	50	--	100	--	175	--	50	

Student Contact Hours Per Week: 35 Hrs.

THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH.

Total Marks : 775

@ Internal Assessment, # External Assessment, [ ] No Theory Examination.

Abbreviations: TH-Theory, TU- Tutorial, PR-Practical, OR-Oral, TW- Term work, SW- Sessional Work.

- Conduct two class tests each of 25 marks for each theory subject. Sum of the total test marks of all subjects is to be converted out of 50 marks as-session work (SW).
- Progressive evaluation is to be done by subject teacher as per the prevailing curriculum implementation and assessment norms.
- Code number for TH, PR, OR, TW are to be given as suffix 1, 4, 8, 9 respectively to the subject code.

