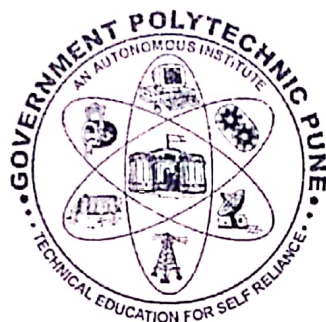


Government Polytechnic, Pune

(An Autonomous Institute of Maharashtra State Government)



Curriculum Revision 2009-2010
(180 Q)

Department Of Electronics and
Telecommunication



GOVERNMENT POLYTECHNIC, PUNE

(An Autonomous Institute of Maharashtra Government)

Effective from From Academic year : 2009-10

Programme Structure

Diploma in ELECTRONICS & TELECOMMUNICATION

Level I - Foundation Level Courses

COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						T.M.	
				L	P	T	C	PA	TH	TW	OR	PR			
HU161	English	--	COMPULSORY	2	2	0	4	20	80	25	--	--			125
SC161	Applied Mathematics - I	--	COMPULSORY	3	0	1	4	20	80	--	--	--			100
SC162	Applied Mathematics - II	--	COMPULSORY	3	0	1	4	20	80	--	--	--			100
SC163	Applied Physics	--	COMPULSORY	3	2	0	5	20	80	--	--	50			150
SC165	Applied Chemistry	--	COMPULSORY	2	2	0	4	20	80	--	--	50			150
HU162	Communication Skills	--	COMPULSORY	2	2	0	4	20	80	25	--	--			125
6	TOTAL			15	8	2	25	120	480	50	0	100			750

Level - II Core Technology Courses

COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						T.M.	
				L	P	T	C	PA	TH	TW	OR	PR			
ME261	Graphic Skills & AUTOCAD	--	COMPULSORY	2	4	0	6	--	--	50	--	50			100
CM261	Basics of Computer Systems	--	COMPULSORY	3	2	0	5	--	--	25	--	50			75
CM262	Programming in C	--	COMPULSORY	3	2	0	5	20	80	--	--	50			150
WS262	Workshop Practice	--	COMPULSORY	0	4	0	4	--	--	50	0	--			50
ET261	Fundamentals of Electronic Engineering	--	COMPULSORY	3	2	0	5	20	80	--	--	50	#%		150
EE262	Electrical Technology	--	COMPULSORY	3	2	0	5	20	80	25	25	--			150
6	TOTAL			14	16	0	30	60	240	150	25	200			675



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Level - III Auxiliary Courses (Any Two) Group A

COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						T.M.	
				L	P	T	C	PA	TH	TV	OR	PR			
AU361	Environmental Science	—	OPTIONAL	2	1	0	3	20	80	--	--	--			100
AU362	Community Development	—	OPTIONAL	2	1	0	3	20	80	--	--	--			100
AU363	Renewable & Sustainable Energy Management	—	OPTIONAL	2	1	0	3	20	80	--	--	--			100
AU364	Engineering Economics	—	OPTIONAL	2	1	0	3	20	80	--	--	--			100
AU365	Industrial Psychology	—	OPTIONAL	2	1	0	3	20	80	--	--	--			100
SC361	Applied Mathematics-III	SC 161, SC 162	OPTIONAL	2	0	1	3	20	80	--	--	--			100
2				4	2	1	6	40	160	--	--	--			200
GROUP B NON EXAM. NON CREDIT COURSES (COMPULSORY)															
# Credits over & above 180 credits															
NE376	Development of Soft Skills-I	—	COMPULSORY	1	2	0	3	--	--	25	--	--			25
NE377	Development of Soft Skills-II	—	COMPULSORY	1	2	0	3	--	--	25	--	--			25
2				4	2	2	6	40	160	--	--	--			200

Level IV – Basic Technology Courses

COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						T.M.	
				L	P	T	C	PA	TH	TV	OR	PR			
ET461	Electronic Materials And Components	—	COMPULSORY	3	2	0	5	20	80	--	50	--			150
ET462	Network Analysis	—	COMPULSORY	4	2	0	6	20	80	--	--	50	#		150
ET463	Applied Electronics	—	COMPULSORY	3	2	0	5	20	80	--	--	50	#		150
ET464	Linear Integrated Circuits	—	COMPULSORY	4	2	0	6	20	80	--	--	50			150
ET465	Power Electronics	—	COMPULSORY	4	2	0	6	20	80	--	--	50			150
ET466	Digital Electronics	—	COMPULSORY	4	2	0	6	20	80	--	--	50	#		150
ET467	Electronic Measuring Instruments	—	COMPULSORY	3	2	0	5	20	80	--	--	50	#		150
ET468	Principles of Communications	—	COMPULSORY	4	2	0	6	20	80	--	--	50			150
ET469	Microprocessor And Microcontroller Fundamentals	—	COMPULSORY	4	4	0	8	20	80	--	--	50	#		150
9				33	20	0	53	180	720	--	50	400			1350

#Practical of 2 hrs alternate weeks



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Level V – Applied Technology Courses

COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						
				L	P	T	C	PA	TH	TW	OR	PR	T.M.	
ET561	Communication Systems - I	ET468	COMPULSORY	4	2	0	6	20	80	25	--	50		175
ET562	Communication Systems - II	ET468	COMPULSORY	4	2	0	6	20	80	25	--	50		175
ET563	Digital Communication	—	COMPULSORY	4	2	0	6	20	80	--	--	50		150
ET564	Microcontroller based Systems	ET469	COMPULSORY	4	2	0	6	20	80	25	--	50		175
ET565	Computer Networking	CM261	COMPULSORY	4	2	0	6	20	80	--	50	--		150
ET566	Instrumentation and Control systems	ET467	COMPULSORY	4	2	0	6	20	80	25	--	50		175
ET567	Project and Seminar	90 credits	COMPULSORY	0	6	2	8			50	50	50		150
7			TOTAL	24	18	2	44	120	480	150	100	300		1150

Level VI – Allied (Humanity Science) Courses (Any TWO)

COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						
				L	P	T	C	PA	TH	TW	OR	PR	T.M.	
MA661	Principles of Management	—	COMPULSORY	3	0	0	3	20	80	--	--	--		100
MA662	Entrepreneureship Development	—	Any ONE	3	0	0	3	20	80	--	--	--		100
MA663	Project Management	—		3	0	0	3	20	80	--	--	--		100
MA664	Materials Management	—		3	0	0	3	20	80	--	--	--		100
MA665	Supervisory Management	—		3	0	0	3	20	80	--	--	--		100
MA666	Total Quality Management	—		3	0	0	3	20	80	--	--	--		100
MA667	Software Project Management	—		3	0	0	3	20	80	--	--	--		100
MA668	Management Information System	—		3	0	0	3	20	80	--	--	--		100
2				TOTAL	6	0	0	6	40	160	--	--	--	



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Level VII – Diversified Courses

COURSE CODE	COURSE TITLE	PRE-REQUISITE	COMPULSORY / OPTIONAL	TEACHING SCHEME				EXAMINATION SCHEME						
				L	P	T	C	PA	TH	TW	OR	PR	SEMI	T.M.
Group A- (Any One)														
ET761	Wireless and Mobile communication	ET468	OPTIONAL	4	2	0	6	20	80	--	50	--		150
ET762	Satellite Communication	ET468	OPTIONAL	4	2	0	6	20	80	--	50	--		150
Group B- (Any Two)														
ET763	Robotics	ET566	OPTIONAL	3	2	0	5	20	80	--	50	--		150
ET764	Embedded System Technology	--	OPTIONAL	3	2	0	5	20	80	--	50	--		150
ET765	Industrial Automation	ET566	OPTIONAL	3	2	0	5	20	80	--	50	--		150
ET766	Automotive Mechatronics	ET566	OPTIONAL	3	2	0	5	20	80	--	50	--		150
3	TOTAL			10	6	0	16	60	240	--	150	--		450

TOTAL CREDITS

180

TOTAL MARKS

4775

Theory to Practical ratio

58.89 41.11

64.9 35.1

L - Lecture, P-Practical, C- Credits, PA- Progressive Assessment, PR- Practical, TW- Term Work, OR- Oral, SEMI- Seminar Presentation

T.M.- TOTAL MARKS, Each Lecture / Practical period is of one clock hour

(Prof.S.B.Kulkarni)
CDC In-charge

(Prof. R. M. Adhav)
Chairman, PBOS

Each Lecture / Practical period is of one clock hour

*	Term work on Graphics Skills & Practical on AutoCAD
#	Internal practical Examination
\$	External Oral/Practical