



GOVERNMENT POLYTECHNIC PUNE
University Road, Pune 411 016

Detailed Path Structure of Path GS1

Department: DIPLOMA - ELECTRONICS AND TELECOM ENGINEERING

Course Code	Course Title	Prerequisites	Teaching Fields				Exam Fields						Class Declared
			L	P	T	C	PA	TH	TW	OR	PR	TOTAL	

LEVEL - I Foundation Level Courses(All Compulsory)

(All Compulsory)

HU181	ENGLISH	-	2	2	0	4	20	80	25	0	0	125	-
HU182	COMMUNICATION SKILLS	-	2	2	0	4	20	80	0	25	0	125	-
SC181	APPLIED MATHEMATICS - I	-	3	0	1	4	20	80	0	0	0	100	-
SC182	APPLIED MATHEMATICS - II	-	3	0	1	4	20	80	0	0	0	100	-
SC183	ENGINEERING PHYSICS	-	3	2	0	5	20	80	0	0	50	150	-
SC184	ENGINEERING CHEMISTRY	-	3	2	0	5	20	80	0	0	50	150	-
Total:			16	8	2	26	120	480	25	25	100	750	

LEVEL - II Core Technology Courses

(All Compulsory)

CM282	PROGRAMMING IN C	-	3	2	1	6	20	80	25	0	50	175	-
CM286	COMPUTER FUNDAMENTALS	-	1	2	0	3	0	0	25	0	50	75	-
EE283	FUNDAMENTALS OF ELECTRICAL ENGINEERING	-	3	2	0	5	20	80	25	25	0	150	-
ET281	BASIC ELECTRONICS	-	4	2	0	6	20	80	25	0	50	175	-
ET282	ELECTRONICS WORKSHOP	-	0	4	1	5	0	0	25	25	0	50	-
ME284	ENGINEERING DRAWING	-	2	2	0	4	0	0	50	0	0	50	-
Sub Total:			13	14	2	29	60	240	175	50	150	675	

(Any One)

ET283	INDUSTRIAL MEASUREMENTS	-	2	0	1	3	20	80	0	0	0	100	-
SC282	ENGINEERING MATHEMATICS	-	2	0	1	3	20	80	0	0	0	100	-
Sub Total:			4	0	1	3	20	80	0	0	0	100	
Total:			17	14	3	32	80	320	175	50	150	775	

LEVEL - III Basic Technology Courses

(All Compulsory)

ET381	MINI PROJECT	-	0	2	0	2	0	0	25	25	0	50	-
ET382	NETWORK ANALYSIS	-	2	2	1	6	20	80	0	0	25	125	-
ET383	APPLIED ELECTRONICS	-	4	4	0	8	20	80	0	0	50	150	Y

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			L	P	T	C	PA	TH	TW	OR	PR		TOTAL
ET384	ELECTRONICS INSTRUMENTATION	-	3	2	0	5	20	80	0	0	25	125	-
ET385	ANALOG COMMUNICATION	-	4	2	0	6	20	80	0	0	50	150	YES
ET386	LINEAR INTEGRATED CIRCUIT	-	3	2	1	6	20	80	0	0	25	125	-
ET387	POWER ELECTRONICS	-	4	2	0	6	20	80	0	25	0	125	-
ET388	DIGITAL ELECTRONICS	-	3	2	0	5	20	80	25	0	25	150	-
ET389	MICROCONTROLLER AND APPLICATIONS	-	4	4	0	8	20	80	0	0	50	150	YES
Total:			28	22	2	52	160	640	50	50	250	1150	

LEVEL - IV Applied Technology Courses

Auxiliary Courses (Any Two)

AU481	ENVIRONMENTAL SCIENCE@	-	0	2	0	2	0	0	50	0	0	50	-
AU482	COMMUNITY DEVELOPMENT	-	2	0	0	2	20	80	0	0	0	100	-
AU483	RENEWABLE AND SUSTAINABLE ENERGY	-	2	0	0	2	20	80	0	0	0	100	-
AU484	ENGINEERING ECONOMICS	-	2	0	0	2	20	80	0	0	0	100	-
Sub Total:			2	2	0	4	20	80	50	0	0	150	

Management Level Courses (Any One)

MA481	CONSTRUCTION MANAGEMENT	-	3	0	0	3	20	80	0	0	0	100	-
MA482	INDUSTRIAL ORGANISATION AND MANAGEMENT	-	3	0	0	3	20	80	0	0	0	100	-
MA483	ENTREPRENEURSHIP DEVELOPMENT	-	3	0	0	3	20	80	0	0	0	100	-
MA484	MATERIALS MANAGEMENT	-	3	0	0	3	20	80	0	0	0	100	-
MA485	SUPERVISORY MANAGEMENT	-	3	0	0	3	20	80	0	0	0	100	-
MA486	TOTAL QUALITY MANAGEMENT	-	3	0	0	3	20	80	0	0	0	100	-
MA487	MANAGEMENT INFORMATION SYSTEM	-	3	0	0	3	20	80	0	0	0	100	-
Sub Total:			3	0	0	3	20	80	0	0	0	100	

(All Compulsory)

ET481	PROJECT AND SEMINAR (IN HOUSE/INDUSTRY)	-	0	8	0	8	0	0	50	50	50	150	YES
ET482	AUDIO VIDEO ENGINEERING	-	3	2	0	5	20	80	0	25	0	125	-
ET483	MICROWAVE COMMUNICATION	-	3	2	0	5	20	80	0	25	0	125	-

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Department: DIPLOMA - ELECTRONICS AND TELECOM ENGINEERING

Course Code	Course Title	Prerequisites	Teaching Fields				Exam Fields					Class Declared	
			L	P	T	C	PA	TH	TW	OR	PR		TOTAL
ET484	OPTICAL COMMUNICATION	-	3	2	0	5	20	80	25	25	0	150	-
ET485	DIGITAL COMMUNICATION	-	3	2	0	5	20	80	0	0	50	150	YES
ET486	INSTRUMENTATION AND CONTROL	-	3	2	0	5	20	80	25	25	0	150	YES
ET487	COMPUTER NETWORK	-	4	2	0	6	20	80	25	0	0	125	-
ET488	PERIFERRAL INTERFACE CONTROLLER	-	4	2	0	6	20	80	0	0	50	150	YES
Sub Total:			23	22	0	45	140	560	125	150	150	1125	

Non Credit Courses (All Compulsory)

NC481	DEVELOPMENT OF SOFT SKILLS - I	-	0	2	0	2	0	0	25	0	0	25	-
NC482	DEVELOPMENT OF SOFT SKILLS - II	-	0	2	0	2	0	0	25	0	0	25	-
Sub Total:			0	4	0	4	0	0	50	0	0	50	
Total:			28	26	0	56	180	720	225	150	150	1425	

LEVEL - V Diversified Courses

(Any Three)

ET581	WIRELESS COMMUNICATION	-	4	2	0	6	20	80	25	25	0	150	YES
ET582	SATELLITE COMMUNICATION	-	4	2	0	6	20	80	25	25	0	150	YES
ET583	ROBOTICS	-	4	2	0	6	20	80	25	25	0	150	YES
ET584	INDUSTRIAL AUTOMATION	-	4	2	0	6	20	80	25	25	0	150	YES
ET585	VLSI	-	4	2	0	6	20	80	25	25	0	150	YES
ET586	EMBEDDED SYSTEM TECHNOLOGY	-	4	2	0	6	20	80	25	25	0	150	YES
Total:			12	6	0	18	60	240	75	75	0	450	
Grand Total:			99	78	7	184	600	2400	550	350.0	350.0	4550	

The Ratio of Theory to Practical is 52:48

Abbreviations: L:Lecture Credits; P:Practical Credits; C:Total Credits; PA:Progressive Assessment(Test) Marks; TH:Theory Marks; PR:Practical Marks; TW:Term Work Marks; OR:Oral Marks; Tot:Total Marks; @:Compulsory

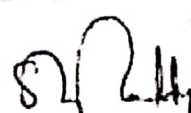
GOVERNMENT POLYTECHNIC, PUNE
(An Autonomous Institute of Govt. of Maharashtra)

Total Credits	180
Total No. Courses	35+2+2
No. of Courses with Theory Examination	31
No. of Courses with Practical Examination	15
No. of Courses without Theory Examination	8
Total Marks	4500
Marks for Class Declaration	1500
Theory Paper Marks for Class Declaration	800
Theory : Practical Ratio	52:48
Class Declaration Courses	C.D.

Level	Credits
I	26
II-A	29
II-B	3
III	52
IV-A	4
IV-B	3
IV-C	45
IV-D	0
V	18
Total	180


(S.V. Chaudhari)

Member Secretary PBOS


(R.N. Shikari)

Chairman, PBOS

QFD SAMPLE PATH (I ST SHIFT REGULAR) (GS-1)

	CODE	COURSE TITLE	L	P	T	C
I	HU181	English	2	2	--	4
	SC181	Applied Maths I	3	--	1	4
	SC183	Engineering Physics	3	2	--	5
	EE283	Fundamental Of Electrical Enggining	3	2	--	5
	CM286	Computer Fundamental	1	2	--	3
	ME284	Engineering Drawing	2	2	--	4
	TOTAL			14	10	1
II	HU82	Communication skill	2	2	--	4
	SC182	Applied Maths II	3	--	1	4
	SC184	Engineering Chemistry	3	2	--	5
	ET281	Basic Electronics	4	2	--	6
	AU481	Environmental science	2	2	--	2
	ET282	Electronic Workshop	--	4	1	5
	CM282	Programming in C	3	2	1	6
TOTAL			17	12	3	32
II	ET384	Electronic Instrumentation	3	2	--	5
	ET382	Network Analysis	3	2	1	6
	ET388	Digital Electronics	3	2	--	5
	ET383	Applied Electronics	4	4	--	8
	ET385	Analog communication	4	2	--	6
	NE481	Development of Soft Skills-I	--	2	--	--
TOTAL			17	12	1	30
IV	SC282	Enggining Maths	2	--	1	3
	ET386	Linear Integrated circuits	3	2	1	6
	ET432	Audio - video engineering	3	2	--	5
	ET389	Microcontroller & Application	4	4	--	8
	ET387	Power Electronics	4	2	--	6
	ET381	Mini Project	--	2	--	2
	AU483	Renewable & susatainabel energy manegement	2	--	--	2
NE482	Development of Soft Skills-I I	--	2	--	--	
TOTAL			18	14	2	32
V	ET484	Optical communication	3	2	--	5
	ET483	Microwave Communication	3	2	--	5
	ET485	Digital Communication	3	2	--	5
	ET486	Instrumentation & control	3	2	--	5
	ET488	PIC controller	4	2	--	6
	ET481	Project & Seminar	--	4	--	4
TOTAL			16	14	0	30
VI	ET486	Computer Network	4	2	0	6
	ET581/	Wireless Communication/SatelliteCommunication	4	2	--	6
	ET582					
	ET583/	Robotics/Industrial automation	4	2	--	6
	ET584					
	ET585/ET586	VLSI/Embedaed System Technology	4	2	--	6
ET481	Project & Seminar	--	4	--	4	
MA483	Entrepreneurship development	3	--	--	3	
TOTAL			19	12	0	39
TOTAL CREDITS						180

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
QFD SAMPLE PATH (II ND SHIFT REGULAR)(GS-I)(180S)

	CODE	COURSE TITLE	L	P	T	C	
1	HU181	English	2	2	-	4	
	SC181	Applied Maths I	3	--	1	4	
	SC184	Engineering Chemistry	3	2	--	5	
	AU481	Environmental science	2	2	--	2	
	ET282	Electronic Workshop	--	4	1	5	
	CM286	Computer Fundamentals	1	2	--	3	
	TOTAL			11	10	2	23
2	HU282	Communication skill	2	2	--	4	
	SC182	Applied Maths II	3	--	1	4	
	SC183	Engineering Physics	3	2	--	5	
	ET281	Basic Electronics	4	2	--	6	
	CM282	Programming in C <i>ET286</i>	3	2	1	6	
	ME284	Engineering Drawing	2	2	--	4	
	EE283	Fundamental Of Electrical Engginering	3	2	--	5	
TOTAL			20	12	2	34	
3	ET384	Electronic Instrumentation	3	2	--	5	
	ET382	Network Analysis	3	2	1	6	
	ET388	Digital Electronics	3	2	--	5	
	ET383	Applied Electronics	4	4	--	8	
	ET385	Analog communication	4	2	--	6	
	NE481	Development of Soft Skills-I	--	2	--	--	
	TOTAL			17	14	1	30
4	SC282	Engginering Maths	2	--	1	3	
	ET386	Linear Integrated circuits	3	2	1	6	
	ET482	Audio-video engineering	3	2	--	5	
	ET389	Microcontroller & Application	4	4	--	8	
	ET387	Power Electronics	4	2	--	6	
	ET381	Mini Project	--	2	--	2	
	AU483	Renewable & susatainabel energy manegement	2	--	--	2	
	NE482	Development of Soft Skills-I I	--	2	--	--	
TOTAL			18	14	2	32	
5	ET484	Optical communication	3	2	--	5	
	ET483	Microwave Communication	3	2	--	5	
	ET485	Digital Communication	3	2	--	5	
	ET486	Instrumentation & control	3	2	--	5	
	ET488	PIC controller	4	2	--	6	
	ET481	Project & Seminar	--	4	--	4	
	TOTAL			16	14	0	30
6	ET487	Computer Network <i>ET487</i>	3	2	1	6	
	ET581/ ET582	Wireless Communication /Satellite Communication	4	2	--	6	
	ET583/ ET584	Robotics/Industrial automation	4	2	--	6	
	ET585/ ET586	VLSI/Embedded System Technology	4	2	--	6	
	ET481	Project & Seminar	--	4	--	4	
	MA483	Entrepreneurship development	3	--	--	3	
	TOTAL			18	12	1	31
	TOTAL CREDITS						180

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
QFD SAMPLE PATH (PART-TIME)(PS-I)(180S)

SEM	CODE	COURSE TITLE	L	P	T	C
I	HU181	English	2	2	--	4
	SC181	Applied Maths I	3	--	1	4
	SC183	Engineering Physics	3	2	--	5
	CM286	Computer Fundamentals	1	2	--	3
	AU487	Environmental science	2	--	--	2
	ME284	Engineering Drawing	2	2	--	4
	TOTAL		13	8	1	22
II	HU282	Communication skill	2	2	--	4
	SC182	Applied Maths II	3	--	1	4
	SC184	Engineering Chemistry	3	2	--	5
	ET282	Basic Electronics	4	2	--	6
	CM282	Programming in C	3	2	1	6
	TOTAL		15	8	2	25
III	ET283	Industrial Measurement	2	--	1	3
	ET382	Network Analysis	3	2	1	6
	ET388	Digital Electronics	3	2	--	5
	EE283	Fundamental Of Electrical Enggining	3	2	--	5
	ET281	Electronic Workshop	--	4	1	5
	TOTAL		9	10	2	24
IV	ET383	Applied Electronics	4	4	--	8
	ET385	Analog communication	4	2	--	6
	ET386	Linear Integrated circuits	3	2	1	6
	AU483	Renewable & susatainabel energy manegement	2	--	--	2
	TOTAL		13	8	1	22
V	ET384	Electronic Instrumentation	3	2	--	5
	ET482	Audio -video engineering	3	2	--	5
	ET387	Power Electronics	4	2	--	6
	ET389	Microcontroller & Application	4	4	--	8
	NE481	Development of Soft Skills-I	--	2	--	--
	TOTAL		11	10	0	24
VI	ET381	Mini Project	--	2	--	2
	ET486 C	Instrumentation & control	3	2	--	5
	ET483	Microwave communication	3	2	--	5
	ET487	PIC controller	4	2	--	6
	NE482	Development of Soft Skills-II	--	2	--	--
	TOTAL		10	8	0	18
VII	ET482 485	Digital Communication	3	2	--	5
	ET486 487	Computer Network	4	2	--	6
	ET583/ ET584	Robotics/Industrial automation	4	2	--	6
	ET481	Project & Seminar	--	4	--	4
	TOTAL		8	8	0	21
VIII	ET484	Optical communication	3	2	--	5
	ET581/ ET582	Wireless Communication/Satellite Communication	4	2	--	6
	ET585/ ET586	VLSI/Embedded System Technology	4	2	--	6
	ET481	Project & Seminar	--	4	--	4
	MA483	Entrepreneurship development	3	--	--	3
	TOTAL		11	8	0	24
TOTAL CREDITS						180