

UNIVERSITY POLYTECHNIC, GALGOTIAS UNIVERSITY
DIPLOMA IN IC MANUFACTURING

SEMESTER I								
S.No.	Course Code	Course Title	Course Type	L (Credits)	T (Credits)	P (Credits)	S (Credits)	Total Credits
1	N1DF101T	Applied Mathematics-I	Theory	3	1	0	0	4
2	N1DL101T	Engineering Graphics	Theory	1	2	0	0	3
3	N1DB104B	Applied Physics-I	Integrated	2	1	1	0	4
4	N1DF106B	Basic Communication & Computer Skills	Integrated	2	0	2	0	4
5	N1DF105C	Basic Chemistry	Comprehensive	3	0	1	1	5
6	N1DF103T	Environment Education & Disaster Management	Mng	0	0	0	0	0
Total				11	4	4	1	20

SEMESTER II								
S.No.	Course Code	Course Title	Course Type	L (Credits)	T (Credits)	P (Credits)	S (Credits)	Total Credits
1	N1DF201T	Applied Mathematics-II	Theory	3	1	0	0	4
2	N1DF201B	Applied Physics-II	Integrated	2	1	1	0	4
3	N1DF202B	Professional Communication	Integrated	2	0	2	0	4
4	N1DK201B	Fundamentals of Electrical & Electronics Engg.	Integrated	2	0	1	0	3
5	N1DL101C	Workshop Practice	Comprehensive	2	0	2	1	5
Total				11	2	6	1	20

SEMESTER III								
S.No.	Course Code	Course Title	Course Type	L (Credits)	T (Credits)	P (Credits)	S (Credits)	Total Credits
1	Given By ERP	Introduction to VLSI Fabrication	Integrated	3	0	1	0	4
2	Given By ERP	Electronic Devices and Circuits	Integrated	3	0	1	0	4
3	Given By ERP	Electronics Measurements and Instrumentation	Integrated	3	0	1	0	4
4	Given By ERP	Network analysis & Circuits	Integrated	2	0	1	0	3
5	Given By ERP	Principles of digital Electronics	Comprehensive	3	0	1	1	5
Total				14	0	5	1	20

SEMESTER IV								
S.No.	Course Code	Course Title	Course Type	L (Credits)	T (Credits)	P (Credits)	S (Credits)	Total Credits
1	Given By ERP	Clean room technologies	Theory	2	0	0	0	2
2	Given By ERP	Program Elective-1	Theory	3	0	0	0	3
3	Given By ERP	Microprocess and Microcontroller	Integrated	3	0	1	0	4
4	Given By ERP	Computer Networking & Data Communication	Integrated	2	0	1	0	3
5	Given By ERP	Electronic Design & Simulation Techniques	Comprehensive	3	0	1	1	5
6	Given By ERP	Analog and Digital Communication Systems	Integrated	2	0	1	0	3
7	Given By ERP	Enterpreneurship and start-up	Mng	0	0	0	0	0
Total				15	0	4	1	20

Total		SEMESTER V						
S.No.	Course Code	Course Title	Course Type	L (Credits)	T (Credits)	P (Credits)	S (Credits)	Total Credits
1	Given By ERP	Safety Protocols for IC Foundry	Theory	2	0	0	0	2
2	Given By ERP	Vacuum Technology	Integrated	3	0	1	0	4
3	Given By ERP	Program Elective-II	Integrated	3	0	1	0	4
4	Given By ERP	Program Elective-III	Integrated	2	0	1	0	3
5	Given By ERP	Open Elective	Integrated	2	0	1	0	3
6	Given By ERP	Linear Integrated Circuits	Comprehensive	3	0	1	1	5
7	Given By ERP	Printed Circuit Board Design Lab	Core Lab	0	0	1	0	1
8	Given By ERP	Personality Development & Soft Skills	Skill Lab	0	0	2	0	2
Total				15	0	8	1	24

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List of Program Elective

S. No	Course Code	Name of the Course	L	T	P	C
1	PE-1	Semiconductor Technology Equipment Maintenance	2	0	0	2
2	PE-3	Industrial Automation	3	0	0	4
3	PE-4	Control System and PLC	3	0	0	4
4	PE-6	Semiconductor Packaging and Testing	3	0	0	3
5	PE-7	Sensors and Actuators	3	0	0	3

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S. No	Course Code	Name of the Course	L	T	P	C
1	OE-1	Renewable Energy Technologies	3	0	0	3
2	OE-2	Industrial Robots	3	0	0	3
3	OE-3	Electronic System Assembly	3	0	0	3
4	OE-4	Introduction to IoT	3	0	0	3
5	OE-5	Mechatronics	3	0	0	3
6	OE-6	Product Design	3	0	0	3