DIPLOMA PROGRAMME IN POLYMER TECHNOLOGY CURRICULUM STRUCTURE

SCHEME AT A GLANCE

Level	Name of Level	Total Number of Courses offered	Number of Courses to be completed	тн	TU	PR	Total Hours	Total Credits	Marks
Level-1	Foundation Courses	09	09 Compulsory	16	01	18	35	26	950
Level-2	Basic Technology Courses	07	07 Compulsory	16		12	28	22	1050
Level-3	Allied courses 06		04 (03 Compulsory +01 Electives)	06		06	12	09	250
Level-4	Applied Technology Courses	09	09 Compulsory	28		24	52 +32	54	1350
Level-5	Diversified Courses	07	03 (01 Compulsory +02 Electives)	06		06	12	09	400
TOTAL		38	29 Compulsory +03 Electives 32	72	01	66	171	120	4000
Audit Co	urses	04	04	06		02	08		
Grand To	otal	42	36	78	01	68	179	120	4000

Abbreviation:

TH-Theory, TU-Tutorial, PR-Practical

PROGRAMME - DIPLOMA IN POLYMER TECHNOLOGY

PROGRAMME STRUCTURE LEVEL - 1 FOUNDATION COURSES

				TEACHING SCHEME						EXA	MINA	TION	I SCH	IEME	
Sr. No.	Course Code	Course Title	Course Abbr.	Но	urs p	er V	Veek	Total		eory aper	Test	PR	OR	TW	Total
INO.	Code		ADDI.	тн	TU	PR	Total Hrs	Credits	Hrs	Mark	iest	FK	OK		Iotai
01	21101	Communication Skills	CMS	02		02	04	03	03	80	20		-	50	150
02	21102	Engineering Mathematics	EMT	02	01		03	03	03	80	20				100
03	21103	Applied Mathematics	AMT	03		-	03	03	03	80	20		-	-	100
04	21104	Applied Physics	PHY	03		02	05	04	02	80#	20#			50	150
05	21105	Applied Chemistry	CHY	03		02	05	04	02	80#	20#		I	50	150
06	21107	Engineering Graphics	EGR			04	04	02		-			-	50	50
07	21108	Engineering Mechanics	EMH	03		02	05	04	03	80	20			50	150
08	21109	Workshop Practice	WSP	1		04	04	02	I		I		ı	50	50
09	21110	Introduction to IT System	ITS	1		02	02	01	ı		ı		ı	50	50
	TOTAL			16	01	18	35	26	I	480	120	25	I	350	950

Level:1

Total Courses : 09 Total Credits : 26 Total Marks : 950

Abbreviations:

Abbr: Course Abbreviation, TH: Theory, TU: Tutorial, PR: Practical, OR: Oral, TW: Term Work

Course code Indication:

First two digit :Indicates last two digits of Year of Implementation of Curriculum

Third digit : Indicates Level.

Fourth & fifth digit : Indicates Course Number.

Assessment of PR/OR/TW:

1) All orals & practicals are to be assessed by external & internal examiners.

2) * Indicates TW to be assessed by external & internal examiners.

- 3) Other TW are to be assessed by internal examiners.
- 4) # indicates On line theory Examination

PROGRAMME - DIPLOMA IN POLYMER TECHNOLOGY PROGRAMME STRUCTURE LEVEL-2 BASIC TECHNOLOGY COURSES

			Alabara	7	ΈΑΟ	CHIN	G SCHE	ME	EXAMINATION SCHEME								
Sr. No.	Course Code	Course Title	Abbre viatio	Но	ours	per \	Veek	Total	Theo	ry Paper							
	Couc		n	тн	TU	PR	Total Hrs	Credit s	Hrs	Mark	Test	PR	OR	TW	Total		
01	21217	Computer Aided Graphics	CAG			02	02	01						100	100		
02	21218	Hydraulics & Pneumatics	HYP			02	02	01						50	50		
03	21219	Polymer Chemistry	PCH	04		02	06	05	03	80	20		50	50	200		
04	21220	Fundamentals of Chemical Engineering	FCE	03		02	05	04	03	80	20		50	50	200		
05	21221	Polymer Materials	PLM	03		02	05	04	03	80	20		50	50	200		
06	21222	Organic Chemistry	OCH	03		02	05	04	03	80	20	50		50	200		
07	21223	Advanced Polymers and Product Design	APP	03			03	03	03	80	20				100		
	TOTAL			16		12	28	22		400	100	50	150	350	1050		

Level:2

Total Courses : 07 Total Credits : 22 Total Marks : 1050

Abbreviations:

PRQ: Prerequisite, TH: Theory, TU: Tutorial, PR: Practical, OR: Oral, TW: Term Work

- 1) All Orals are to be assessed by external and internal examiner.
- 2) * Indicates TW to be assessed by external and internal examiner.
- 3) Other TW are to be assessed by internal examiner only.

PROGRAMME - DIPLOMA POLYMER TECHNOLOGY PROGRAMME STRUCTURE LEVEL-3 ALLIED COURSES

					TEA	CHIN	NG SCH	HEME	EXAMINATION SCHEME								
Sr. No.	Course Code	Course Title	Course Abbr.	Но	urs į	oer V	Veek	Total		eory aper	T	-	00	T 14/	T-4-1		
				тн	TU	PR	Total Hrs	Credits	Hrs	Mark	Test	PR	OR	TW	Total		
01	21301	Entrepreneurship and Start-ups	EPS	01	1	02	03	02		-				50	50		
02	21303	Programing and Problem Solving	PPS	01		02	03	02						50	50		
03	21308	Industrial Organization and Management	IOM	03			03	03	03	80	20				100		
Elec	tive I: A	any ONE of the foll	owing														
	21305	Artificial Intelligence	ARI	01		02	03	02						50	50		
04	21306	Internet of Things	IOT	01		02	03	02						50	50		
	21310	Solid Modeling	SDM	01		02	03	02						50	50		
	1	TOTAL		06		06	12	09		80	20			150	250		

Level:3

Total Courses : 04 Total Credits : 09 Total Marks : 250

Abbreviations:

PRQ: Prerequisite, TH: Theory, TU: Tutorial, PR: Practical, OR: Oral, TW: Term Work

- 1) All Orals are to be assessed by external and internal examiner.
- 2) * Indicates TW to be assessed by external and internal examiner.
- 3) Other TW are to be assessed by internal examiner only.

PROGRAMME -DIPLOMA IN POLYMER TECHNOLOGY PROGRAMME STRUCTURE LEVEL-4 APPLIED TECHNOLOGY COURSES

			Abbre	7	ГЕАС	HING	SCHE	ME	EXAMINATION SCHEME								
Sr. No.	Course Code	Course Title	viatio	Но	ours p	er W	/eek	Total Credit		eory per	Test	PR	OR	TW	Total		
			n	тн	TU	PR	Total Hrs	S	Hrs	Mark	rest	PK	UK	I VV	Iotai		
01	21410	Industrial Training	ITR					14					100	100	200		
02	21411	Project	PRO			04	04	02					50	50	100		
03	21417	Polymer Composites and Blends	САВ	04		02	06	05	03	80	20		25	25	150		
04	21418	Elastomer Technology	EST	04		02	06	05	03	80	20		25	25	150		
05	21419	Moulds and Dies for Polymers	MDP	04		02	06	05	04	80	20		25	25	150		
06	21420	Additives for Polymers	AFP	04		02	06	05	03	80	20		25	25	150		
07	21421	Polymer Moulding Techniques	PMT	04		04	08	06	03	80	20		25	25	150		
08	21422	Polymer Processing Techniques	PPT	04	-	04	08	06	03	80	20	1	25	25	150		
09	21423	Testing of Polymers	TOP	04		04	08	06	03	80	20	25		25	150		
	TOTAL			28		24	52	54		560	140	25	300	325	1350		

Level:4

Total Courses : 09
Total Credits : 54
Total Marks : 1350

Abbreviations:

PRQ: Prerequisite, TH: Theory, TU: Tutorial, PR: Practical, OR: Oral, TW: Term Work

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- 2) * Indicates TW to be assessed by external and internal examiner.
- 3) Other TW are to be assessed by internal examiner only.

PROGRAMME -DIPLOMA IN POLYMER TECHNOLOGY PROGRAMME STRUCTURE LEVEL-5 DIVERSIFIED COURSES

				7	EAC	HING	G SCHE	ME	EXAMINATION SCHEME								
Sr. No.	Course Code	Course Title	Abbr eviat ion	Но	urs	per V	Veek	Total		eory aper	Took	PR	OR	TW	Total		
				ТН	TU	PR	Total Hrs	Credit s	Hrs	Mark	Test	PK	UK	I VV	Iotai		
Com	pulsory	1															
01	21515	Maintenance of Polymer Processing Machines	MPM			02	02	01					50	50	100		
Elect	ive II :	Any ONE of the	follow	<i>i</i> ing													
	21516	Fibre Technology	FTY	03		02	05	04	03	80	20			50	150		
02	21517	Tyre Technology	TYT	03		02	05	04	03	80	20			50	150		
	21518	Polymer Waste Management	PWM	03		02	05	04	03	80	20			50	150		
Elect	ive III	: Any ONE of th	e follo	wing													
	21519	Polymer Packaging	PPG	03		02	05	04	03	80	20			50	150		
03	21520	Adhesives	ADH	03		02	05	04	03	80	20			50	150		
	21521	Polymer Paints	PLP	03	-	02	05	04	03	80	20			50	150		
	тс		06		06	12	09		160	40		50	150	400			

Level:5

Total Courses : 03 Total Credits : 09 Total Marks : 400

Abbreviations:

PRQ: Prerequisite, TH: Theory, TU: Tutorial, PR: Practical, OR: Oral, TW: Term Work

- 1) All Orals are to be assessed by external and internal examiner.
- 2) * Indicates TW to be assessed by external and internal examiner.
- 3) Other TW are to be assessed by internal examiner only.

PROGRAMME -DIPLOMA IN POLYMER TECHMOLOGY PROGRAMME STRUCTURE AUDIT COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	Contact Hours Per Week (TH)	Contact Hours Per Week (PR)	Total Contact Hours Per Week	Total Credits
01	21001	Environmental science	EVS	02		02	
02	21002	Sports and Yoga	SPY		02	02	
03	21003	Essence of Indian Knowledge and Tradition	IKT	02		02	
04	21004	Indian Constitution	ICN	02	-	02	
		TOTAL		06	02	08	

Total Courses : 04 Total Credits : Nil Total Marks : --

PROGRAMME- DIPLOMA IN POLYMER TECHNOLOGY Courses For Award Of Class

				7	ГЕАС	HIN	G SCH	EME	EXAMINATION SCHEME								
Sr. No.	Course Code	Course Title	Cours e	Но	urs p	er V	Veek	Total		eory aper							
	Couc		Abbr.	тн	TU	PR	Total Hrs	Credits	Hrs	Mark	Test	PR	OR	TW	Total		
01	21223	Advanced Polymers and Product Design	APP	03			03	03	03	80	20				100		
02	21308	Industrial Organization and Management	IOM	03			03	03	03	80	20				100		
03	21410	Ind. Training	ITR				32	14	-				100	100	200		
04	21411	Project	PRO			04	04	02					50	50	100		
05	21417	Polymer Composites and Blends	CAB	04		02	06	05	03	80	20		25	25	150		
06	21418	Elastomer Technology	EST	04		02	06	05	03	80	20		25	25	150		
07	21419	Moulds and Dies for Polymers	MDP	04		02	06	05	04	80	20		25	25	150		
08	21420	Additives for Polymers	AFP	04		02	06	05	03	80	20		25	25	150		
09	21421	Polymer Moulding Techniques	PMT	04		04	08	06	03	80	20		25	25	150		
10	21422	Polymer Processing Techniques	PPT	04		04	08	06	03	80	20		25	25	150		
11	21423	Testing of Polymers	ТОР	04		04	08	06	03	80	20	25		25	150		
Elec	tive II:	Any ONE of th	e follow	<i>i</i> ing	•	•											
	21516	Fibre Technology	FTY	03		02	05	04	03	80	20			50	150		
12	21517	Tyre Technology	TYT	03		02	05	04	03	80	20			50	150		
	21518	Polymer Waste Management	PWM	03		02	05	04	03	80	20			50	150		
	то	TAL		37		26	95	64		800	200	25	300	375	1700		

Total Courses : 12
Theory Papers : 10
Total Theory Marks : 1000
Total PR/OR/TW Marks : 700
Total Marks : 1700
Total Credits : 64

- 1) All orals and practicals are to be assessed by external and internal examiners.
- 2) * Indicates TW to be assessed by external and internal examiners.
- 3) Other TW are to be assessed by internal examiners.

PROGRAMME - DIPLOMA IN POLYMER TECHNOLOGY SAMPLE PATH ENTRY LEVEL- 10+

Nature of	First	: Year	Secon	d Year	Third	Year	T-4-1
Course	Odd Term	Even Term	Odd Term	Even Term	Odd Term	Even Term	Total
	21101 (03) CMS 21102 (03)	21103 (03) AMT 21104 (04)	21218 (01) HYP 21219 (05)	21308 (03) IOM 21417 (05)	21303 (02) PPS 21411 (02)	21410 (14) ITR	
	EMT	PHY	PCH	CAB	PRO		
	21105 (04) CHY	21107 (02) EGR	21221 (04) PLM	21419 (05) MDP	21418 (05) EST		
Compulsory	21109 (02) WSP	21108 (04 <mark>)</mark> EMH	21301 (02) EPS	21421 (06) PMT	21422 (06) PPT		
	21110 (01) ITS	21222 (04) OCH	21420 (05) AFP	21515 (01) MPM	21423 (06) TOP		
	21220 (04) FCE	21217 (01) CAG	21223 (03) APP				
Total credits (Compulsory)	17	18	20	20	21	14	110
Elective		-1	Any ONE from Elective-I 21305 ARI, 21306 IOT, 21310 SDM :(02)	Any ONE from Elective-II 21516 FTY, 21517 TYT, 21518 PWM :(04)	Any ONE from Elective-III 21519 PPG, 21520 ADH, 21521 PLP :(04)		-
Total Credits (Elective)			02	04	04		10
Total Courses	06	06	07	06	06	01	32
Audit Courses	21002 SPY(00)	21001 EVS(00)	21003 IKT(00)	21004 ICN(00)			
Total Credits (Compulsory + Elective)	17	18	22	24	25	14	120
Grand Total of Credits							120

Note: Figures in bracket indicates total credits.