

Faculty of Technology
M.Tech. Plastic Technology
(R 2017) Semester – I
PA5111 PLASTIC PROCESSING LABORATORY - I
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Injection moulding machine(conventional)	2		
2.	Plastic tube extrusion machine	1		
3.	Plastic film extrusion machine	1		
4.	Compression moulding machine	1		
5.	Blow moulding machine(conventional)	1		
6.	Scrap grinding machine	1		

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PA5112 PLASTICS TESTING LABORATORY I
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Viscometer	1		
2.	Melting point apparatus	1		
3.	Carbon black content tester	1		
4.	Environmental stress cracking resistance tester	1		
5.	Brookfield viscometer	1		
6.	PH meter	1		
7.	Injection moulding machine	1		
8.	Compression moulding machine	1		
9.	Two roll mill	1		
10.	Contour cutter	1		
11.	Scrap grinder	1		
12.	Blender	1		
13.	Universal testing machine	1		
14.	Tear strength tester	1		

15.	Impact strength tester	1		
16.	Shore A - Hardness tester	1		
17.	Shore D - Hardness tester	1		
18.	Rockwell Hardness tester	1		
19.	Abrasion resistance tester	1		
20.	Folding endurance tester	1		
21.	Burst strength tester	1		
22.	Humidity chamber	1		
23.	Gas permeability tester	1		
24.	Sieve analysis apparatus	1		

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PA5113 POLYMER SYNTHESIS AND CHARACTERISATION LABORATORY
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Differential Scanning Calorimeter (DSC)	1		
2.	Thermogravmetric analysis (TGA)	1		
3.	Ostwald/Ubbelohde viscometer	3		
4.	Glassware for reactions and spot tests	1		

M.Tech. Plastic Technology
(R 2017) Semester – II
PA5211 PLASTICS PROCESSING LABORATORY II
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Microprocessor controlled inj. moulding machine	1		
2.	Blow moulding machine (Automatic)	1		
3.	Vacuum forming machine	1		
4.	Rotational moulding machine	1		
5.	Plastics coating machine	1		
6.	Ultrasonic welding machine	1		
7.	Plastic sealing machine	1		
8.	Printing machine (on plastics)	1		
9.	Machine maintenance kit	1		
10.	Moulds maintenance kit	2		
11.	Moulds for plastic products	1		
12.	FRP hand layup kit	1		
13.	Plastic co-extrusion film plant	1		

M.Tech. Plastic Technology
(R 2017) Semester – II
PA5212 PLASTICS PRODUCTS/TOOL DESIGN LABORATORY
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Computer Systems	25		
2.	2 D & 3D Modeling Software	25		
3.	Flow Simulation software	25		
4.	Printer	1		

M.Tech. Plastic Technology
(R 2017) Semester – II
PA5213 PLASTICS TESTING LABORATORY II
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Ribbon Blender	1		
2.	Compounding Extruder	1		
3.	Injection moulding machine	1		
4.	Compression moulding machine	1		
5.	Two roll mill	1		
6.	Contour cutter	1		
7.	Carbon black content tester	1		
8.	Environmental stress cracking resistance tester	1		
9.	Ribbon Blender	1		
10.	Compounding Extruder	1		
11.	Universal testing machine	1		
12.	Tear strength tester	1		
13.	Impact strength tester	1		
14.	Abrasion resistance tester	1		
15.	Burst strength tester	1		

16.	Humidity chamber	1		
17.	Gas permeability tester	1		
18.	Hydrostatic bursting pressure tester	1		
19.	Reversion tester	1		
20.	Falling Dart Impact Tester for films and Pipes	1		
21.	Volume and Surface resistivity	1		
22.	Dielectric strength	1		
23.	Arc Resistance	1		
24.	Haze meter	1		