

## Bachelor of Biosystems Technology (BBST) Degree Programme

### Polymer Processing Technology

Semester 1 and Semester 2 are common to both Food Processing Technology, Agriculture and Environment Technology and Polymer Processing Technology Focus Areas

#### Semester 1

Module Code	Module Title	Credits	
		GPA	NGPA
FOT 11301	Mathematics (I)	3	
FOT 11302	Physics for Technology	3	
FOT 11303	Chemistry for Technology	3	
FOT 11204	Engineering Drawing	2	
FOT 11205	Principles of Statistics	2	
FOT 10201	Computing for Technology*		2
FOT 10202	Communication skills (I)/English*		2
FOT 10103	Ethical Conduct of Learners*		1
	<b>Total For the semester</b>	<b>13</b>	<b>5</b>

#### Semester 2

Module Code	Module Title	Credits	
		GPA	NGPA
FOT 21201	Mathematics (II)	2	
FOT 21205	Statistical Methods	2	
FOT 21206	Introduction to Computer Programming	2	
FOT 21207	Principles of Management	2	
FOT 21208	Principles of Quality Management	2	
BST 21201	Principles of Design & Manufacturing	2	
BST 21202	Principles of Microbiology	2	
FOT 20202	Communication skills (II)/English*		2
FOT 20104	Personality Development*		1
	<b>Total for the semester</b>	<b>14</b>	<b>3</b>

**Semester 3**

Module Code	Module Title	Credits	
		GPA	NGPA
BST 31241	Fundamentals of Polymers	2	
BST 31242	Polymerization Techniques and Polymer Properties	2	
BST 31143	Introduction to Natural Rubber	1	
BST 31344	Manufacture of Marketable Grades of Natural Rubber	3	
BST 31345	Raw Materials in Plastic Product Manufacturing	3	
BST 31146	Additives in Polymer Processing	1	
BST 31347	Compounding, Mixing and Shaping Technologies of Natural Rubber	3	
BST 31148	Vulcanization Technology of Natural Rubber	1	
BST 31249	Synthetic Rubbers	2	
	<b>Total for the Semester</b>	<b>18</b>	

**Semester 4**

Module Code	Module Title	Credits	
		GPA	NGPA
FOT 41209	Financial Management	2	
EGT 41201	CAD Software Applications	2	
BST 41241	Mechanical Properties of Polymers	2	
BST 41442	Plastic Processing Technology (I)	4	
BST 41243	Fundamentals of Polymer Rheology and Heat Transfer	2	
BST 41244	Polymer Composites and Applications	2	
BST 41245	Polyurethane Technology	2	
BST 41146	Manufacture of Natural Rubber Latex and Synthetic Lattices	1	
BST 41347	Compounding and vulcanization technologies of Natural Rubber latex	3	
	<b>Total for the Semester</b>	<b>20</b>	

**Semester 5**

Module Code	Module Title	Credits	
		GPA	NGPA
FOT 51110	Research Methodology	1	
BST 51441	Latex Product Manufacturing Technology	4	
BST 51442	Plastic Processing Technology (II)	4	
BST 51343	Tyre Manufacturing Technology	3	
BST 51344	Non Tyre Products Manufacturing Technology	3	
BST 51245	Analysis and Characterization of Polymers	2	
FOT 50105	Professional Ethics		1
FOT 50106	Occupational Health and Safety*		1
	<b>Total for the Semester</b>	<b>17</b>	<b>2</b>

**Semester 6**

Module Code	Module Title	Credits	
		GPA	NGPA
BST 61341	Textile Technology	3	
BST 61342	Industrial Chemical Engineering and Process Control	3	
BST 61243	Plastic Products Design	2	
BST 61344	Recycling and Waste Management	3	
BST 61245	Surface Coatings and Adhesive Technology	2	
BST 61246	Mould and Die Design	2	
BST 61247	Mechanical Systems	2	
	<b>Total for the Semester</b>	<b>17</b>	

**Semester 7**

Module Code	Module Title	Credits	
		GPA	NGPA
BST 71698	Industrial Training / Internship	6	
BST 91699	Research Project		
	<b>Total for the Semester</b>	<b>6</b>	

**Semester 8**

<b>Module Code</b>	<b>Module Title</b>	<b>Credits</b>	
		<b>GPA</b>	<b>NGPA</b>
FOT 81111	Entrepreneurship and Small Business Management	2	
BST 91699	Research Project Contd.*	6	
BST 81101	Career Development for an Employable Graduate	1	
BST 81141	Nano Technology	1	
BST 81242	Packaging and Decoration of Plastics	2	
BST 81343	Specialty and Advanced Polymers and their Applications	3	
	<b>Total for the Semester</b>	<b>15</b>	