

PROGRAMME SPECIFICATION DOCUMENT

1. Qualification MSc	2. Programme Title Textile Engineering	3. UCAS Code	4. Programme Type Single Full and Part-time		
<p>5. Main Purposes and Distinctive Features of the Programme</p> <ul style="list-style-type: none"> • To instill an enthusiasm for the role of Textiles (exclusively or in combination with other subjects) derived from a sound understanding of the importance and application of technology in industrial, economic and social contexts. • To involve students in an intellectually stimulating satisfying and motivating experience of learning, studying and exchange of ideas and knowledge. • To develop, to an appropriate level, an understanding of the interdependence between Textile Technology and Design, Marketing and Management and how these, in concert, contribute to competitiveness within the Textile Industry. • To provide students with no previous textile knowledge with a broad and balanced basis of textile knowledge and practical skills. • To develop the ability to apply knowledge in the solution of a range of theoretical and practical problems facing the Textile Industry. • To develop a range of generic skills of value in career development. <ul style="list-style-type: none"> • To provide knowledge and skills that will enable progress onto research programmes. 					
<p>6. What a graduate should know and be able to do on completion of the programme</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><u>Knowledge and understanding in the context of the subject(s)</u></p> <ul style="list-style-type: none"> ▪ The application of textile terminology, nomenclature, conventions and units in the context of the major textile characteristics and properties. ▪ The variety of methods used in the manufacture of textile products. ▪ The importance of manufacturing variables and their significance in relation to product appearance, performance and economics. ▪ The methods used to evaluate, develop and innovate textile products which are fit for purpose. ▪ The contribution that Design, Marketing and Management makes to successful textile product development and innovation. ▪ A range of theoretical concepts and how they are applied in practice within the Textile Industry. <p><u>Cognitive skills in the context of the subject(s)</u></p> <ul style="list-style-type: none"> ▪ The ability to apply subject knowledge and understanding to solve routine and non-routine problems in a variety of contexts. ▪ The ability to synthesise subject knowledge and understanding in the generation of strategies which add value to textile products through the processes of analysis, development and innovation. ▪ To develop critical and analytical skills and apply these personally and to the work of others. </td> <td style="width: 50%; vertical-align: top;"> <p><u>Subject-specific practical/professional skills</u></p> <ul style="list-style-type: none"> ▪ The ability to follow procedures and safe working practices, which take into account specific hazards associated with the use of textile materials, processing machinery, testing equipment, chemicals and IT equipment. ▪ The ability to accurately observe, measure, analyse and record product details, events and/or change. ▪ The ability to plan, design and execute experiments, processes or surveys from recognition through to the evaluation of results using the scientific method or the design process as appropriate. <p><u>Other skills (e.g. key/transferable) developed in subject or other contexts</u></p> <ul style="list-style-type: none"> ▪ Written, oral and non-verbal communication skills. ▪ Problem solving using both qualitative and quantitative techniques. ▪ Interpersonal skills including the ability to accept diversity and engage in team working. ▪ Time management and organisational skills. ▪ Study skills to a level needed for continuing professional development ▪ Numeracy and computational skills. ▪ Information Technology skills. ▪ The research skills of information retrieval from primary and secondary sources, critical analysis and synthesis. </td> </tr> </table>				<p><u>Knowledge and understanding in the context of the subject(s)</u></p> <ul style="list-style-type: none"> ▪ The application of textile terminology, nomenclature, conventions and units in the context of the major textile characteristics and properties. ▪ The variety of methods used in the manufacture of textile products. ▪ The importance of manufacturing variables and their significance in relation to product appearance, performance and economics. ▪ The methods used to evaluate, develop and innovate textile products which are fit for purpose. ▪ The contribution that Design, Marketing and Management makes to successful textile product development and innovation. ▪ A range of theoretical concepts and how they are applied in practice within the Textile Industry. <p><u>Cognitive skills in the context of the subject(s)</u></p> <ul style="list-style-type: none"> ▪ The ability to apply subject knowledge and understanding to solve routine and non-routine problems in a variety of contexts. ▪ The ability to synthesise subject knowledge and understanding in the generation of strategies which add value to textile products through the processes of analysis, development and innovation. ▪ To develop critical and analytical skills and apply these personally and to the work of others. 	<p><u>Subject-specific practical/professional skills</u></p> <ul style="list-style-type: none"> ▪ The ability to follow procedures and safe working practices, which take into account specific hazards associated with the use of textile materials, processing machinery, testing equipment, chemicals and IT equipment. ▪ The ability to accurately observe, measure, analyse and record product details, events and/or change. ▪ The ability to plan, design and execute experiments, processes or surveys from recognition through to the evaluation of results using the scientific method or the design process as appropriate. <p><u>Other skills (e.g. key/transferable) developed in subject or other contexts</u></p> <ul style="list-style-type: none"> ▪ Written, oral and non-verbal communication skills. ▪ Problem solving using both qualitative and quantitative techniques. ▪ Interpersonal skills including the ability to accept diversity and engage in team working. ▪ Time management and organisational skills. ▪ Study skills to a level needed for continuing professional development ▪ Numeracy and computational skills. ▪ Information Technology skills. ▪ The research skills of information retrieval from primary and secondary sources, critical analysis and synthesis.
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7. Qualities, Skills & Capabilities Profile			
A Cognitive	B Practical	C Personal & Social	D Other
Applied problem solving	Use of apparatus, machinery and computers	Oral and written communication	
Critical reasoning and powers of analysis and synthesis	Information processing	Organisation and time management	
Creativity and originality	Quantitative and qualitative analysis	Teamwork	
Design of strategies and protocols	Writing skills	Social interaction	
	Research methods	Self development	
8. Duration and Structure of Programme/Modes of Study/Credit Volume of Study Units (1 Year full-time; 3 years part-time). MSc = 180 credits; Intermediate Awards of Postgraduate Diploma Certificate available at 120 and 60 credits respectively.			
M Level Modules	<u>Core Modules (30 Credits each)</u> Research Methods GENERAL Advanced Textile Technology	<u>Options (30 credits each)</u> TEXTILE BUSINESS International Business for Textiles Independent Study Product Development Management	Dissertation (60 credits)

<p>9. Learning, Teaching and Assessment Strategy</p> <p><u>Learning and Teaching Methods</u></p> <p>Active learning is promoted via lectures, seminars, self directed study, video viewing and analysis, tutorials, industrial visits, IT sessions, library and guided study, fieldwork.</p> <p><u>Assessment Methods</u></p> <p>Assessment tasks are linked to the learning outcomes of each module and are normally completed at the end of each semester. Types of assessment include: Essays - 3000 - 5000 words in length Examination - seen and unseen Seminar presentations Dissertation - 15,000 words</p> <p><u>Assessment Classification System</u></p> <p>Pass mark for individual assessments - 40% Pass mark for module - average of 40% Final award based on accumulation of 6 M level modules and profile information for marginal candidates.</p>	<p>10. Other Information (including compliance with relevant Institute policies)</p> <p><u>Date programme first offered</u> 1991</p> <p><u>Admissions Criteria</u> <i>Standard Requirements</i> A British Honours degree in a Textile related subject or other Textile related qualification at equivalent level (e.g. AT1). A British Honours degree in a non-Textile related subject or other qualification at equivalent level, on condition that the General Textile Technology module is compulsory. A British Honours degree in a non-Textile related subject or other qualification at equivalent level, along with significant appropriate Textile related experience.</p> <p><i>Non Standard Entry</i> Alternative qualifications and/ or substantial experience demonstrating Textile related knowledge and skills at Honours Degree standard.</p> <p><u>Indicators of Quality and Standards</u></p> <ol style="list-style-type: none"> i. Validated by panel with external subject specialists; ii. External examiners confirm marks of dissertation; iii. Dissertation, seminars and some assignments double marked; iv. High rating following QAA visit. v. Students continue to be sponsored by the same company. vi. Students request information regarding possibilities for continuing study at the University of Bolton. vii. Favourable responses to student questionnaires
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