

**Maulana Abul Kalam Azad University of Technology, West Bengal**  
(Formerly West Bengal University of Technology)

**Syllabus for B. Tech in Leather Technology**  
(Applicable from the academic session 2018-2019)

**Curriculum Structure**

<b>Semester-III(2<sup>nd</sup> Year)</b>						
<b>3A. THEORETICAL PAPERS</b>						
<i>COURSE NO.</i>	<i>COURSE TITLE</i>	<i>L</i>	<i>T</i>	<i>P</i>	<i>Total</i>	<i>Cr.</i>
HU 301	Values and Ethics in Profession	2	0	0	2	2
CH(LT) 301	Histology and Microbiology of Leather Manufacture - I	2	0	0	2	2
CH (LT)302	Biology for Engineers	3	0	0	3	3
LT 301	Fluid Mechanics	2	0	0	2	2
LT 302	Bio Chemistry of Protein & Fundamentals of Pre-tannage	3	0	0	3	3
LT 303	Fundamentals of Digital Computer	2	0	0	2	2
<i>Total Credits of Theoretical Papers</i>		<b>14</b>				
<b>3B. PRACTICAL PAPERS</b>						
CH(LT) 391	Histology and Microbiology of Leather Manufacture Lab - I	0	0	3	3	2
LT 391	Fluid Mechanics Lab	0	0	3	3	2
LT 392	Tannery Practice I	0	0	3	3	2
LT 393	Applied Information Technology Lab	0	0	3	3	2
<i>Total Credits of Practical Papers</i>		<b>8</b>				
<i>Total Credits of Semester</i>		<b>22</b>				

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<b>Semester-IV(2<sup>nd</sup> Year)</b>						
<b>4A. THEORETICAL PAPERS</b>						
<i>COURSE NO.</i>	<i>COURSE TITLE</i>	<i>L</i>	<i>T</i>	<i>P</i>	<i>Total</i>	<i>Cr.</i>
M(CS) 401	Numerical Methods	2	0	0	2	2
LT 401	Thermodynamics	2	0	0	2	2
LT 402	Chemistry & Technology of Inorganic Tannage	2	0	0	2	2
LT 403	Analytical Chemistry of Leather Auxiliaries –I	2	0	0	2	2
LT 404	Leather Footwear Design & Manufacture	2	0	0	2	2
LT 405	Histology and Microbiology of Leather Manufacture - II	2	0	0	2	2
<i>Total Credits of Theoretical Papers</i>		<b>12</b>				
<b>4B. PRACTICAL PAPERS</b>						
HU 481	Communication skill & Report Writing	0	0	3	3	2
M(CS)491	Numerical Methods with C Programming	0	0	2	2	2
LT 491	Tannery Practice II	0	0	3	3	2
LT 492	Analytical Chemistry of Leather Auxiliaries Lab-I	0	0	3	3	2
LT 493	Footwear Design Lab	0	0	3	3	2
LT 494	Histology and Microbiology of Leather Manufacture Lab - II	0	0	3	3	2
<i>Total Credits of Practical Papers</i>		<b>12</b>				
<i>Total Credits of Semester</i>		<b>24</b>				

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<b>Semester-V(3<sup>rd</sup> Year)</b>						
<b>5A. THEORETICAL PAPERS</b>						
<i>COURSE NO.</i>	<i>COURSE TITLE</i>	<i>L</i>	<i>T</i>	<i>P</i>	<i>Total</i>	<i>Cr.</i>
HU (LT) 501	Economics of Leather Industry	2	0	0	2	2
LT 501	Chemistry & Technology of Organic Tannage	2	0	0	2	2
LT 502	Applied Statistics and Quality Control	2	0	0	2	2
LT 503	Environmental Engg of Leather Processing	2	0	0	2	2
LT 504	Studies on JAVA	2	0	0	2	2
LT 505	Leather Goods Design & Manufacture	2	0	0	2	2
<i>Total Credits of Theoretical Papers</i>		<b>12</b>				
<b>5B. PRACTICAL PAPERS</b>						
LT 591	Tannery Practice III	0	0	3	3	2
LT 592	Leather Goods Design Lab	0	0	3	3	2
LT 593	Studies on JAVA Lab	0	0	3	3	2
LT 594	Analytical Chemistry of Wastewater related to Leather Processing	0	0	3	3	2
<i>Total Credits of Practical Papers</i>		<b>8</b>				
<i>Total Credits of Semester</i>		<b>20</b>				

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<b>Semester-VI(3<sup>rd</sup> Year)</b>						
<b>6A. THEORETICAL PAPERS</b>						
<i>COURSE NO.</i>	<i>COURSE TITLE</i>	<i>L</i>	<i>T</i>	<i>P</i>	<i>Total</i>	<i>Cr.</i>
HU 601	Principles of Management	2	0	0	2	2
LT 601	Chemistry & Technology of Post Tanning Operations	2	0	0	2	2
LT 602	Physical Testing of Leather	2	0	0	2	2
LT 603	Mechanics of Leather Machines and Design of Machine Parts	2	0	0	2	2
LT 604A	Material Science	2	0	0	2	2
LT 604B	Safety & Occupational Health of Leather industry					
LT 604 C	Industrial Sociology					
LT 605 A	DATA BASE Management System	2	0	0	2	2
LT605B	Industrial Psychology & Organisational Behaviour					
LT605C	Ecological Engineering and Eco- Audit					
<i>Total Credits of Theoretical Papers</i>		<b>12</b>				
<b>6B. PRACTICAL PAPERS</b>						
LT 691	Physical Testing Lab	0	0	3	3	2
LT 692	Mechanics of Leather Machines Lab	0	0	3	3	2
LT 693	Instrumental Analysis of Leather & Leather Chemicals	0	0	3	3	2
LT 694	DATABASE Management Lab	0	0	3	3	2
LT 695	Seminar			2	2	1
<i>Total Credits of Practical Papers</i>		<b>09</b>				
<i>Total Credits of Semester</i>		<b>21</b>				

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<b>Semester-VII(4<sup>th</sup> Year)</b>						
<b>7A. THEORETICAL PAPERS</b>						
<i>COURSE NO.</i>	<i>COURSE TITLE</i>	<i>L</i>	<i>T</i>	<i>P</i>	<i>Total</i>	<i>Cr.</i>
LT 701	Chemistry & Technology of Leather Finishing Operations	2	0	0	2	2
LT 702	Eco - Benign Options for Leather Processing	2	0	0	2	2
LT 703	Analytical Chemistry of Leather Auxiliaries –II	2	0	0	2	2
LT 704	Science & Technology of Polymer & Synthetics as Leather Substitute	2	0	0	2	2
LT 705	E-Commerce & Application	2	0	0	2	2
<i>Total Credits of Theoretical Papers</i>		<b>10</b>				
<b>7B. PRACTICAL PAPERS</b>						
HU 791	Group Discussion	0	0	3	3	2
LT 791	Tannery Practice IV	0	0	3	3	2
LT 792	Analytical Chemistry of Leather Auxiliaries Lab-II	0	0	3	3	2
LT 793	E-Commerce & Application Lab	0	0	3	3	2
LT 794	INDUSTRIAL TRAINING <u>4 weeks during 6<sup>th</sup> – 7<sup>th</sup> semester break</u>					2
<i>Total Credits of Practical Papers</i>		<b>10</b>				
<i>Total Credits of Semester</i>		<b>20</b>				

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<b>Semester-VIII(4<sup>th</sup> Year)</b>						
<b>8A. THEORETICAL PAPERS</b>						
<i>COURSE NO.</i>	<i>COURSE TITLE</i>	<i>L</i>	<i>T</i>	<i>P</i>	<i>Total</i>	<i>Cr.</i>
HU 801A/B/C	Organisational Behaviour / Project Management & Economic Policies in India	2	0	0	2	2
LT 801	Plant Layout and Entrepreneurship for Leather Sector	2	0	0	2	2
LT 802	Technology of Animal and Tannery Byproducts Utilization	2	0	0	2	2
<i>Total Credits of Theoretical Papers</i>		<b>06</b>				

<b>8B. PRACTICAL PAPERS</b>						
HU 891	Design Lab	0	0	4	4	2
LT 881	Project	0	0	12	12	5
LT 882	Grand Viva	0	0	2	2	2
<i>Total Credits of Practical Papers</i>		<b>09</b>				
<i>Total Credits of Semester</i>		<b>15</b>				