

5 Year Dual Degree (B.Tech.-M.Tech.) Curriculum

Department of Information Technology, IEST Shibpur

First to Sixth Semesters Curriculum:

The curriculum of Dual Degree is the same as 4 Year UG for 1st – 6th semesters.

Seventh and Eighth Semesters Curriculum:

The Dual Degree 7th - 8th semester curriculum includes entire 4 Year UG 7th – 8th semester curriculum. ADDITIONALLY, the following courses are to be taken by Dual Degree students:

Seventh Semester

Sl. No	Course Name	Course code	Class Load/Week			Credit	Class load/Week
			L	T	P		
1.	ADB I	IT 711/X	3	0	0	3	3
2.	ADB I Lab	IT 763/X	0	0	3	2	3

ADB I (IT 711/X)	Algebra and Computation
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Eighth Semester

Sl. No	Course Name	Course code	Class Load/Week			Credit	Class load/Week
			L	T	P		
1.	ADB II	IT812/X	3	0	0	3	3
2.	ADB III	IT813/X	3	0	0	3	3
3.	ADS I	IT824/X	3	0	0	3	3

ADB I (IT 711/X)	Algebra and Computation
ADB II (IT 812/X)	Artificial Intelligence
ADB III (IT 813/X)	Image Processing and Pattern recognition
Advanced Specialized subjects	Electives
ADS I (IT 824/X)	<ol style="list-style-type: none"> 1. Algorithm II 2. Distributed Algorithms 3. Big data analytics 4. Introduction to Embedded and Real Time Systems

Ninth and Tenth Semesters Curriculum:

Ninth Semester

Sl. No	Course Name	Course code	Class Load/Week			Credit	Class load/week
			L	T	P		
1.	ADS II	IT921/X	3	0	0	3	3
3.	ADS III	IT 922/X	3	0	0	3	3
4.	ADS IV	IT 923/X	3	0	0	3	3
2.	ADS V	IT 924/X	3	0	0	3	3
	Theory Sub-total		12	0	NIL	12	12
6.	Project Thesis Part II	IT 971	0	0	9	6	9
7.	Project Thesis Viva Voce II	IT 991				3	
7.	ADS II lab	IT 981/X	0	0	3	2	3
	Sessional Sub-total		NIL	NIL	12	11	12
	9th Semester Total					23	24

Advanced Specialized subjects	Electives
ADS II (IT 921/X)	<ol style="list-style-type: none"> 1. Complex Systems and Cellular Automata 2. Wireless Sensor Network 3. Cognitive Radio Networks 4. Embedded Processors and Microcontrollers
ADS III (IT 922/X)	<ol style="list-style-type: none"> 1. Computational Topology 2. Computer Vision 3. Medical Image Processing 4. Multi-core Architectures Systems
ADS IV (IT 923/X)	<ol style="list-style-type: none"> 1. Human computer Interaction 2. Multimedia coding and compression 3. Embedded System Security
ADS V (IT 924/X)	<ol style="list-style-type: none"> 1. Soft computing techniques 2. Cloud computing 3. Mobile Computing 4. Embedded Programming

Tenth Semester

Sl. No	Course Name	Course code	Class Load/Week			Credit	Class load/Week
			L	T	P		
1.	Project Thesis part III	IT 1071	0	0	20	12	20
2.	Project Thesis Viva-voce III	IT 1091				4	
	Sessional Sub-total		NIL	NIL	20	16	20
	10th Semester Total					16	20