


## MIT Academy of Engineering

An autonomous institute affiliated to Savitribai Phule Pune University

### CURRICULUM FRAMEWORK- (B. DESIGN-USER INTERFACE/USER EXPERIENCE DESIGN)

 <b>MIT</b>   Academy of Engineering (An Autonomous Institute)			<b>CURRICULUM STRUCTURE (2019 - 2023)</b>			
School of Engineering Design –UI/UX			W. E. F	:	2019-20	
FY B. DES			RELEASE DATE	:		
			REVISION NO.	:	0.0	
<b>SEMESTER: I</b>						
SL. No.	COURSE TYPE	COURSE CODE	COURSE	TEACHING SCHEME		
				L	P/T	CREDIT
1.	DC1	UIX101	Design Overview	1	–	1
2.	DC2	UIX 102	Design Drawing 1	2	4	4
3.	DC3	UIX 103	Fundamentals of Design 1 (Color)	1	4	3
4.	DC4	UIX 104	Fundamentals of Design 2 (Geometry)	1	–	1
5.	DC5	UIX 105	Fundamentals of Design 3 (Materials)	2	4	4
6.	DC6	UIX 106	Fundamentals of Design 4 (Form Space and Structure)	2	4	4
7.	DC7	UIX 107	Digital Methods 1	1	2	2
8.	DC8	UIX 108	Inter Design Studies 1 (Environ Exposure)	1	–	1
<b>TOTAL</b>				11	18	20
<b>SEMESTER: II</b>						
SL. No.	COURSE TYPE	COURSE CODE	COURSE	TEACHING SCHEME		
				L	P/T	CREDIT
1.	DC9	UIX 109	Design Drawing	2	2	3
2.	DC10	UIX 110	Fundamentals of Design 5 (Color)	1	2	2

3.	DC11	UIX 111	Fundamentals of Design 6 (Solid Geometry)	1	2	2
4.	DC12	UIX 112	Fundamentals of Design 7 (3D Form Space and Structure)	2	2	3
5.	DC13	UIX 113	Fundamentals of Design 8 (Materials)	2	2	3
6.	DC14	UIX 114	Digital Methods 2 : Advanced Image Processing and Vector Graphics Applications	1	--	1
7.	DC15	UIX 115	Design Process : Problem Solving	2	6	5
8.	DC16	UIX 116	Inter Design Studies 2 (Urban Environ Exposure)	1	--	1
<b>TOTAL</b>				<b>12</b>	<b>16</b>	<b>20</b>

Note: L: Lecture, P: Practical.

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**SEMESTER: I**

SL. No.	COURSE TYPE	COURSE CODE	COURSE	TEACHING SCHEME		
				L	P	CREDIT
1.	DC17	UIX 201	Fundamentals of User Centered Design	1	2	2
2.	DC18	UIX 202	Introduction to Ergonomics	3	4	5
3.	DC19	UIX 203	Illustration for Digital Product	3	2	5
4.	DC20	UIX 204	Introduction to Interaction Design	3	2	4
5.	DC21	UIX 205	Overview to Software Design Process & Modelling	2	4	4
<b>TOTAL</b>				12	14	20

**SEMESTER: II**

SL. No.	COURSE TYPE	COURSE CODE	COURSE	TEACHING SCHEME		
				L	P	CREDIT
1.	DC22	UIX 206	User Experience Design Methods	3	6	6
2.	DC23	UIX 207	Cognitive Ergonomics : Tools & Techniques	3	4	5
3.	DC24	UIX 208	User Study	3	2	4
4.	DC25	UIX 209	Trends in Interactive Technologies	2	2	2
5.	DC26	UIX 210	Task Analysis & System Visualization	2	2	3
<b>TOTAL</b>				13	16	20



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**SEMESTER: V**

SL. No.	COURSE TYPE	COURSE CODE	COURSE	TEACHING SCHEME		
				L	P	CREDIT
1.	DC27	UIX301	Information Visualization	2	2	3
2.	DC28	UIX302	Tangible Interaction Design	3	4	5
3.	DC29	UIX303	Designing for Web, Mobile & Emerging Technologies 1- Web Technologies	3	4	5
4.	DC30	UIX304	Statistical Data Analysis	2	2	3
5.	DC31	UIX305	Simple Interaction Design	3	2	4
<b>TOTAL</b>				13	14	20

**SEMESTER:VI**

SL. No.	COURSE TYPE	COURSE CODE	COURSE	TEACHING SCHEME		
				L	P	CREDIT
1.	DC32	UIX306	Digital Methods: CAD/CAM 3	3	2	4
2.	DC33	UIX307	Digital Rendering: WACOM	3	2	4
3.	DC34	UIX308	IDS: Travel	3	4	5
4.	DC35	UIX309	Internship For 8 Weeks	3	4	5
5.	DC36	UIX310	Prototyping Electrical /Digital Technology	1	2	2
<b>TOTAL</b>				13	14	20

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DATE :

REVISION NO. : 0.0

**SEMESTER: VII**

SL. No.	COURSE TYPE	COURSE CODE	COURSE	TEACHING SCHEME		
				L	P	CREDIT
1.	DC37	UIX401	Design Semantics	2	2	3
2.	DC38	UIX 402	Introduction to Design Research	2	2	3
3.	DC39	UIX 403	Usability Engineering	3	4	5
4.	DC40	UIX 404	Design for Special Needs	3	4	5
5.	DC41	UIX 405	Design for 2050	3	2	4
<b>TOTAL</b>				13	14	20

**SEMESTER: VIII**

SL. No.	COURSE TYPE	COURSE CODE	COURSE	TEACHING SCHEME		
				L	P	CREDIT
1.	DC42	UIX406	Internship	-	4	4
2.	DC43	UIX407	Graduation Project	-	16	16
<b>TOTAL</b>				-	20	20