

COURSE STURCTURE – M. Des. (Sustainable Design)

(L = Lecture; S = Studio; P = Practical; C = Credits; MLC = Mandatory Learning Course; I.A. = Internal Assessment; E.A. = External Assessment.)

YEAR 1/ SEMESTER 1

SL. NO.	SEM	COURSE CODE	COURSE NAME	HOURS			C	I.A.	E.A.	Total
				L	S	P				
1	1	ARC 6301	Research Methodology	1	2	0	3	50	50	100
2		ARC 6303	Daylighting and Thermal Comfort	4	0	3	5	50	50	100
3		ARC 6305	Heat Transfer & Built Envelop Engineering	4	0	3	5	50	50	100
4		ARC 6307	Green Buildings	2	2	0	4	50	50	100
5		ARC 6309	Environmental Design	2	2	0	4	50	50	100
				13	6	6	21	250	250	500

YEAR 1/ SEMESTER 2

SL. NO.	SEM	COURSE CODE	COURSE NAME	HOURS			C	I.A.	E.A.	Total
				L	S	P				
1	2	ARC 6302	Consulting Studio-I	3	4	0	7	100	50	150
2		ARC 6304	Building Energy Simulation & Auditing	2	0	2	3	100		100
3		ARC 6306	Energy Economics	2	0	2	3	50	50	100
4		ARC 6308	HVAC	2	0	2	3	50	50	100
5		ARC 6310	Smart Controls & Services (Theory & Lab)	2	0	2	3	50	50	100
6		*	Elective-I				3			
			ARC 7002 Renewable Energy Systems,	2	0	2	3	100	-	100
			ARC 7004 Environment and Behavior	2	0	2	3	100	-	100
			ARC 7006 Conservation Principles and Practices	2	0	2	3	100	-	100
			ARC 7008 Spatial Information Mapping and Analytics	1	0	3	3	100	-	100

			ARC 7010 Critical Debates in Urban Design and City Planning-II	3	0	0	3	100	-	100
			ARC 5104 Advanced Elective – II, (with B. Arch) ARC 5104.2 Smart Cities, ARC 5104.3 Urbanism ARC 5104.4 Sustainability	3	0	0	3	100	-	100
			ARC 5106 Advanced Elective – III (with B. Arch) ARC 5106.2 Smart Cities, ARC 5106.3 Urbanism ARC 5106.4 Sustainability	3	0	0	3	100	-	100
Hours for elective are not included in total hours of a semester				11	4	8	22	450	200	650

Summer break will have a mandatory internship:

- Industry internship Final Project (Design)
- Research internship for Thesis (Research)

YEAR 2/ SEMESTER 3

SL. NO.	SEM	COURSE CODE	COURSE NAME	HOURS			C	I.A.	E.A.	Total
				L	S	P				
1	3	ARC 7301	Consulting Studio-II	3	4	0	7	100	50	150
2		ARC 7303	Lighting and Acoustical Design	1	0	2	2	50	50	100
3		ARC 7305	High Performance Buildings Studio	3	3	0	6	100	50	150
4		ARC 7307	Policies and Regulations for Implementation	3	0	0	3	50	50	100
5		ARC 7309	Internship	0	0	0	1		MLC#	
6		**	Elective-II				6			
		ARC 7001	Data Science	1	2	0	3	100	-	100
		ARC 7003	Material Science	1	2	0	3	100	-	100
		ARC 7005	Net Zero Energy Buildings	2	0	2	3	100	-	100
		ARC 7007	Energy Management	2	0	2	3	100	--	100

			ARC 7009 Housing and Community Planning	2	0	2	3	100	-	100
			ARC 7011 Infrastructure and Transport Management	2	0	2	3	100	-	100
			ARC 7013 Critical Debates in Urban Design and City Planning-I	3	0	0	3	100	-	100
			ARC 7015 Urban Sociology	2	0	2	3	100	-	100
			ARC 7017 Urban Environment & Landscape Design	2	0	2	3	100	-	100
			ARC 7019 Project Management	2	0	2	3	100	-	100
Hours for elective are not included in total hours of a semester				10	7	2	25	500	200	700

YEAR 2/ SEMESTER 4

SL. NO.	SEM	COURSE CODE	COURSE NAME	HOURS			C	I.A.	E.A.	Total
				L	S	P				
1	4	ARC 7302	Thesis (Research) or Final Project (Design)	0	12	0	12	200	200	400
2			Open Elective				3		MLC #	
3			Online Courses - Swayam and NPTEL							
					12		12	200	200	400