

Curriculum of
Six Semester Evening M.Tech in Illumination Technology & Design
School of Illumination Science, Engineering & Design
Jadavpur University

Each lecture period is of 45 minutes duration

Proposed Course Curriculum
Six Semester Evening M.Tech in Illumination Technology & Design

First Semester

Theoretical Courses Departmental/ Specialization Basket	Subjects		Periods/Weeks		Marks		Credit Points
	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-I	PG/IlluTD/T/111A	Fundamentals of Illumination Science & Technology	4		100		3
Paper-II	PG/IlluTD/T/112A	Light Sources & Luminaires	4		100		3
Paper-III	PG/IlluTD/T/113A	Lighting codes & Energy Efficient Lighting System	4		100		3
Sessional	PG/IlluTD/S/111A	Laboratory -I		4		100	2
Sessional	PG/IlluTD/S/112A	Assignment -I		4		100	2

Total Periods/Week: 20

Total Marks : 500 [Theory – 300; Sessional- 200]

Second Semester

Theoretical Courses Inter- Disciplinary Basket	Subjects		Periods/Weeks		Marks		Credit Points
	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-IV	PG/IlluTD/T/121A	Lighting Economics, Audit & Management	4		100		3
Paper-V	PG/IlluTD/T/122A	Renewable Energy based Lighting Systems	4		100		3
Paper-VI	PG/IlluTD/T/123A	Indoor Lighting Design	4		100		3
Sessional	PG/IlluTD/S/121A	Laboratory -II		4		100	2
Sessional	PG/IlluTD/S/122A	Assignment -II		4		100	2

Total Periods/Week: 20

Total Marks : 500 [Theory – 300; Sessional- 200]

Third Semester

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-VII	PG/IlluTD/T/131A	Laser Lighting Animation & Creative Lighting	4		100		3
Paper-VIII	PG/IlluTD/T/132A	Outdoor & Landscape Lighting	4		100		3
Sessional	PG/IlluTD/S/131A	Seminar		4		100	2

Total Periods/Week: 12

Total Marks : 300 [Theory – 200; Sessional- 100]

Fourth Semester

Theoretical Courses	Subjects		Periods/Weeks		Marks		Credit Points
	Subject Code	Subject Name	Lecture	Sessional	Examination	Sessional	
Paper-IX	PG/IlluTD/T/141A	A) Lighting Power Conditioning Monitoring & Control OR B) Day lighting Design & Analysis	4		100		3
Paper-X	PG/IlluTD/T/142A	A) Lighting & Architecture OR B) Lighting & Biological Factors	4		100		3
Sessional	PG/IlluTD/S/141A	Term Paper leading to Thesis		4		100	2

Total Periods/Week: 12

Total Marks : 300 [Theory – 200; Sessional- 100]

Fifth Semester & Sixth Semester(Run Through)

Theoretical Courses	Subjects		Marks		Credit Points
	Subject Code	Subject Name	Examination	Sessional	
Sessional	PG/IlluTD/TH/21	Thesis Work		300	8
Sessional	PG/IlluTD/VV/22	Viva-Voce on Thesis		100	4

Total Marks : 400 [Sessional- 400]

Summary of Credit Points and Marks

Year & Semester	Theory		Sessional		Total		Periods/Week
	Credit	Marks	Credit	Marks	Credit	Marks	
First Semester	9	300	4	200	13	500	20
Second Semester	9	300	4	200	13	500	20
Third Semester	6	200	2	100	08	300	12
Fourth Semester	6	200	2	100	08	300	12
Fifth & Sixth Semester	-	-	10	400	12	400	-
Total	30	1000	22	1000	54	2000	-

Eligibility Criteria for M.Tech in Illumination Technology & Design

B.E/B.Tech/B.Arch from any discipline **OR** M.Sc. in Physics, Electronics, Computer Science
And Employed / Self-sponsored Professionals.

Proposed Intake: 18 [10 (General) + 2 (SC) + 1 (ST) + 5 (Company Sponsored)]