New Course Code and Title	Optical Materials	
Details of Course	Summary of course content (please note that this information provided will also be uploaded to the web for viewing at large) > Basics of Optics > Optical Properties of Dielectric Materials > Optical Properties of Metals > Optical Properties of Semiconductors > Surface Plasmon Polariton > Localized Surface Plasmon Resonance > Luminescent materials	
	Rationale for introducing this course There are considerable interests in using optical materials in green technologies, biosensing, and defense. It's important that graduate students in materials are exposed to this topic Aims and objectives To introduce students to the growing field of optical materials To offer the basis of optics, plasmonics, and optoelectronics Recommended background courses or equivalent MS 2018 (Electronic, Magnetic & Optical Properties of Materials) MH 2811 (Math II)	
Assessment	Example	
	Participation and Attendance Continue Assessment Project Assignment	20% 40% 40%
	Total:	100 %
To be offered with effect from (state Academic Year and Semester)	Semester 2, AY2019/2020	
Cross Listing (if applicable)	N/A	

Prerequisites (if applicable)	N/A	
Preclusions (if applicable)	N/A	
Mode of Teaching & Learning (Lectures, regular tests, Q&A, problem- based learning)	Lectures, Q&A, problem-based learning	
Basic Reading List	Optics, Hecht, (2002 4 th Ed.) Pearson Fundamentals of Photonics, Saleh and Teich, (2007 2 nd Ed), Wiley Plasmonics, Fundamentals and Applications, Maier,(2007) Springer Optoelectronics: An introduction, Wilson and Hawkes (1998, 3 rd Ed) Prentice Hall Europe	
Maximum Class Size	20	
Hours of Contact/Academic Units	3 hours / week, 13 weeks (39 hours) 3 AU	
Workload Per Week (The workload for a 3-AU course must add up to 39 hours of contact hours)	Lecture hours per week 2.5 Tutorial hours per week 0.5 Assignments, reading, etc. 1) Students are required to read papers distributed every other week for discussions in class. 2) One paper per student to be submitted at the end of semester, it will contribute to 40% of the final grade.	
	Total hours per week: 3 hours	