Semester	AUG 2022
Open to semester	5,7,11,13
Course code	PH3163
Course title	Mathematical Methods for Physics II (3)
Credits	3 /
Course Coordinator & participating faculty (if any)	Arun M. Thalapillil
Nature of Course	Lectures and Tutorials
Pre-requisites	Mathematical Methods for Physics (PH 2123)
Objectives (goals, type of students for whom useful, outcome etc)	The course will build up on the earlier basic course in mathematical methods for physics. It will aim to introduce students to more advanced mathematical concepts and tools, that are useful in physics.
Course contents (details of topics /sections with no. of lectures for each)	Complex analysis, Ordinary differential equations cont., Special functions, Sturm-Liouville theory, Partial differential equations, Green's functions, Integral transforms, and Asymptotic methods.
Evaluation /assessment	End-Sem Examination-50% Mid-Sem Examination-50% Others-%
Suggested readings (with full list of authors, publisher, year, edn etc.)	 Mathematical methods for physicists, Arfken G. B and Weber H.J, 7th Edition. Mathematical Methods of Physics, Mathews, J. and Walker R. L., 2nd Edition.