



Module PMRF-ISSS029/2023

Complex Analysis

Name of the PMRF student

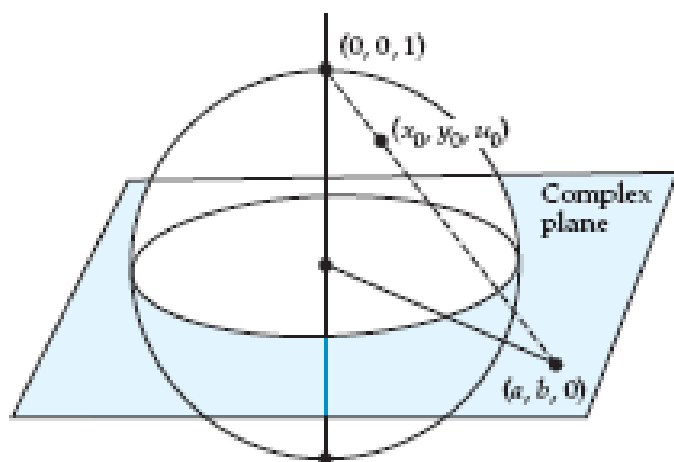
Sreenivas Saurab Kumar

Required background of the students taught

Knowledge of calculus at an undergraduate level. Some background on linear algebra, sequences and series might be useful, though not necessary.

Online session coordinator

Will be chosen from the list of registrants



Unit sphere

Details of the content of the module

There shall be four modules to this course. A brief description for each module is given below:

- **Module 1** – Complex numbers and their properties, stereographic projections, functions of complex variables.
- **Module 2** – Basic definitions, Limits, Continuity and Differentiation – Analytic functions.
- **Module 3** – Multivalued functions, Complex Integration, Taylor and Laurent series, Singularities.
- **Module 4** – Cauchy residue theorem, Principal value integrals and integrals with branch points.

Schedule of the module

Course start : 1st September, 2023

Course end : 15th December, 2023

Classes on : Every Friday, 6 to 7:30 PM.

Tutorial session : Every Saturday, 11 AM to 12 PM.

Total lecture hours : 40 (approx.)

Meeting link : Will be shared later

[Link](#)

Contact email ID: issf.forum@gmail.com

Registration link:

<https://forms.gle/jpDodDnxQ3vpY1H46>