

SoC courses-Vasanth 2026

| | First year | | | Second year | | |
|--|-------------|---|--|--------------------------|---|--|
| | Code | Course details | | Code | Course details | |
| | Course code | Course Name Course structure Instructor name(s) | | Course code | Course Name Course structure Instructor name(s) | Mention if Minor Mention if compulsory for other major students |
| | CHY121 | Physical Chemistry-I [3104] Dr. A. Muthukrishnan Prof. Vinesh Vijayan | | CHY221/CHY2201* | Chemistry of Biomolecules and Heterocycles [3003] Dr. Basudev Sahoo | *Offered as GE |
| | CHY122 | Chemistry Lab-II (Physical) [0031] Prof. Vinesh Vijayan (Coordinator) Dr. A. Muthukrishnan Dr. Krishnadas K R Dr. Indranil Mondal | | CHY311 | Coordination Chemistry [3003] Dr. Gokulnath Sabapathi | |
| | | | | CHY312 | Organic Chemistry - Reactions and Mechanisms [3003] Dr. Rajendar Goreti | |
| | | | | CHY313 | Quantum Chemistry [3003] Prof. R. S. Swathi | |
| | | | | CHY314/CHY3104*/MSC406** | Physical Chemistry-II [3003] / Advanced Physical Chemistry [3003] Dr. Jerry Fereiro | *Course offered as GE **Course content is same for both the course titles |
| | | | | BIO314 | Biochemistry [3003] | Offered by SoB |
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| Fourth year | | |
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| Code | Course details | Other information |
| Course code | Course Name Course structure Instructor name(s) | Mention if Minor/Open-elective Mention if compulsory for other major students |
| CHY522/CHY626/MSC422 | Physical Organic Chemistry [3003] CHY626 is offered for PhD level; MSC422 is offered for Non-NEP batch | Dr. Sreejith J Varma |
| I2C521 | Pharmacology and Pharmacokinetics [3003] | Dr. Ayan Mukherjee |
| I2C421 | Soft Matter and Polymers [3003] | Prof. K M Sureshan |
| I2C422 | Biomaterials [3003] | Dr. Rajendra Kurapati |
| I2C522 | Computational Chemical Biology [3003] | Dr. Pushpita Ghosh |
| I2C423 | Chemical Biology Lab [0093] | Dr. Ayan Mukherjee (Coordinator) Prof. Shyamalava Mazumdar Dr. Sreejith J Varma Dr. Rajendra Kurapati |
| CHY5205 (Elective) | Name Reactions and Rearrangements - Application in Organic Synthesis [3003] Dr. Alagiri Kaliyamoorthy | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] |
| CHY 5221 (Elective) | Supramolecular Chemistry [3003] Dr. Soumen De | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] |
| CHY 5222 (Elective) | Introduction to Crystallography [3003] Prof. Sukhendu Mandal | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] |
| CHY 5223 (Elective) | Inorganic Rings, Chains and Polymers [3003] Prof. Ajay Venugopal | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] |
| CHY 5224 (Elective) | Advanced Materials Chemistry [3003] Dr. Thirumurugan A | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] |
| CHY5203 (Elective) | Computational Chemistry [3003] Dr. V. Sivaranjana Reddy | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] |
| CHY 5225 (Elective) | Advanced Optical Spectroscopy [3003] Prof. K. George Thomas | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] |

| Only fifth year | | Only PhD | | | |
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| Course code | Course Name Course structure Instructor name(s) | Mention if Minor/Open-elective Mention if compulsory for other major students | Course code | Course Name Course structure Instructor name(s) | Mention if Minor/Open-elective Mention if compulsory for other major students |
| CHY5205 (Elective) | Name Reactions and Rearrangements - Application in Organic Synthesis [3003] Dr. Alagiri Kaliyamoorthy | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] | CHY5205 (Elective) | Name Reactions and Rearrangements - Application in Organic Synthesis [3003] Dr. Alagiri Kaliyamoorthy | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] |
| CHY 5221 (Elective) | Supramolecular Chemistry [3003] Dr. Soumen De | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] | CHY 5221 (Elective) | Supramolecular Chemistry [3003] Dr. Soumen De | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] |
| CHY 5222 (Elective) | Introduction to Crystallography [3003] Prof. Sukhendu Mandal | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] | CHY 5222 (Elective) | Introduction to Crystallography [3003] Prof. Sukhendu Mandal | [Elective for 4th and 5th year BSMS, 2nd year MSc, 2nd year IPhD, and PhD students] |
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