

**School of Biology | Course List | Vasanth 2025**

#	Course Code and Name	Instructor(s)
<b>First Year BS-MS</b>		
1	BIO121 Principles of Life II: Biophysics, Cell and Molecular Biology [2103]	Dr. Ravi Maruthachalam (34) Dr. Nishana Mayilaadumveetil(33) Dr. Satish Khurana (34)
2	BIO122 Biology Lab II [0031]	Dr. Yashraj Chavhan (25) Dr. Siddharth Kulkarni (25) Dr. Ravi Devani (25) Dr. Nitin Kamble (25)
<b>Second Year BS-MS</b>		
3	BIO312 Advanced Genetics and Genome Biology [3003]	Prof. Nishant KT
4	BIO313 Physiology [3003]	Dr. Poonam Thakur
5	BIO314 Biochemistry [3003] <i>GE</i>	Dr. Ravi Maruthachalam (50) Dr. Vijay Jayaraman (50)
6	BIO324 Molecular Biology [3003]	Dr. N. Sadananda Singh
7	BIO315 Advanced Biology Lab I [0093]	Dr. Kamalakannan Vijayan (75) Dr. Yashraj Chavhan (25)
<b>Third Year BS-MS   M.Sc.   IPhD   PhD</b>		
8	BIO321/621/MSB621 Structural Biology [3003] <i>Minor/GE</i>	Dr. Ramanathan Natesh
9	BIO322/622/MSB322 Immunology [3003]	Prof. S. Murty Srinivasula
10	BIO323/623/MSB323 Cell Biology [3003]	Prof. Tapas Manna
11	BIO324/624/MSB324 Molecular Biology [3003]	Dr. N. Sadananda Singh
12	BIO326/626/3202/MSB421 Bioinformatics [3003] <i>Minor/GE</i>	Dr. Sabari Sankar Thirupathy

13	BIO325/MSB325 Advanced Biology Lab II [0093]	Dr. Ramanathan Natesh (25) Dr. Amrutha Swaminathan(50) Dr. Kamalakannan Vijayan (25)
Fourth/Fifth Year BS-MS   M.Sc.   IPhD   PhD		
14	BIO4112 Scientific Grant Writing	Dr. Yashraj Chavhan (50) Dr. Ullasa Kodandaramaiah (50)
15	BIO4201/6201 Advanced Developmental Biology [3003]	Dr. Jishy Varghese
16	BIO4203/6203 Chronobiology [3003] AOE	Dr. Nisha N Kannan
17	BIO4205/6205 Host-pathogen Interactions [3003]	Dr. Sandhya Ganesan
18	BIO4207/6207 Ecological interactions [3003]	Prof. Hema Somanathan (50) Dr. Ullasa Kodandaramaiah (50)

19	BIO4208/6208/AOE4201 Stem Cells and Regenerative Medicine [3003]	Dr. Satish Khurana (70%) Dr. Amrutha Swaminathan (30%)
20	BIO4209/6209 Advances in Plant Biology [3003]	Dr. Ravi Devani (40) Dr. Nitin Kamble (40) Dr. Anirban Guha (20)
21	BIO4117/6116 Laboratory Animal Handling [3003]	Dr. Anilkumar
22	BIO4223/6223 Advanced Virology	Dr. Stalin Raj
23	BIO620 Research Methodology (zero credit)	Prof. Hema Somanathan (50) Dr. Nishana Mayilaadumveettil (50)
24	I2B421 Systems Biology Applications [2002]	Dr. Sanu Shameer (50) Dr. Bandan Chakraborty (50)
25	I2B422 Bioimaging and processing [2002]	Dr. Sanu Shameer (37) Dr. Bandan Chakraborty (38) Dr. Kamalakannan Vijayan (25)

26	I2C422 Biomaterials [3003]	Dr. Rajendra Kurapatti (SoC)
27	I2B521 Systems Biology and Imaging Lab [0062]	Dr. Sanu Shameer (50) Dr. Bandan Chakraborty (50)
28	I2C521 Pharmacology and Pharmacokinetics [3003]	Coordinator: Dr. Alagiri Kaliyamoorthy (SoC)