

Third year			
Code	Course details	Other information	
Course code	Course Name Course structure Instructor name(s)	Mention if Minor Mention if compulsory for other major students	
BIO 426; BIO 626; BIO 4004; MSB 421	Bioinformatics / 3003 / 2002 (MSc) / Dr. Sabari Thirupathy	3rd yr & i2 core & Minor / 2nd yr MSc core / PhD	
BIO 416; BIO 616; BIO 4001	Biostatistics / 3003 / Dr. Sandhya Ganesan / New faculty	3rd yr core & Minor / PhD	
I2B 411; BIO 4019; BIO 6120	Systems Biology Theory / 3003 / Dr. Bandan Chakraborty	3rd yr i2 core / 3rd yr DSE / 1st yr MSc & IPhD DSE / PhD	
I2B 412; BIO 4018	Microbiome and Vaccinology / 3003 / Dr. V. Stalin Raj	3rd yr i2 core / 3rd yr DSE	
I2B 413; BIO 4115; BIO 6115	Synthetic Biology / 3003 / Dr. Vijay Jayaraman	3rd yr i2 core / 3rd yr DSE / 1st yr MSc & IPhD DSE / PhD	
I2B 414; BIO 4002	Biomolecular Spectroscopy & Mass spectrometry / 3003 / Dr. Manish Kumar	3rd yr i2 core / 3rd yr DSE / 1st yr MSc & IPhD DSE / PhD / PROTECTED MINOR	
I2B 415; BIO 4020	Human Genetics & Genomics / 3003 / Dr. N. Sadananda Singh / Dr. Nishana Mayilaadumveetil	3rd yr i2 core / 3rd yr DSE / 1st yr MSc & IPhD DSE / PhD	
BIO 4015; BIO 6015	Advances in Plant Biology / 3003 / Dr. Nitin Kamble / New faculty	3rd yr DSE / 4th yr DSE / 1st yr MSc & IPhD DSE / PhD	
BIO 4024; BIO 6024	Population Genetics / 3003 / Dr. Yashraj Chavhan	3rd yr DSE / 4th yr DSE / 1st yr MSc & IPhD DSE / PhD	
BIO 4012; BIO 6012	Host-Pathogen Interactions /3003/ / Dr. Sandhya Ganesan / Dr. Kamalakannan Vijayan	3rd yr DSE / 1st yr MSc & IPhD DSE / PhD	
BIO 4013; BIO 6013	Ecological Interactions / 3003 / Prof. Hema Somanathan / Dr. Ullasa Kodandaramaiah	3rd yr DSE / 4th yr DSE / 1st yr MSc & IPhD DSE / PhD	

Fourth year			
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	
BIO 4208; BIO 6208	Stem Cells & Regenerative Medicine / 3003 / Dr. Satish Khurana / Dr. Amrutha Swaminathan	4th yr i2 core / 4th yr DSE / PhD	
I2B 421; BIO 4021; BIO 6021	Systems Biology Applications / 2002 / Dr. Sanu Shameer	4th yr i2 core / 4th yr DSE / PhD	
I2B 422	Bio-imaging and Processing / 2002 / New faculty	4th yr i2 core	
I2B 521	Systems Biology and Imaging Lab / 2002 / Dr. Sanu Shameer	4th yr i2 core	
I2C422	Biomaterials	4th yr i2 core / offered by SOC	
I2C521	Pharmacology and Pharmacokinetics	4th yr i2 core / offered by SOC	
BIO 4104; BIO 6104	Cancer Biology / 3003 / Prof. S. Murty Srinivasula	4th yr DSE / 2nd yr MSc & IPHD DSE / PhD	
BIO 4203; BIO 6203	Chronobiology / 3003 / Dr. Nisha N Kannan	4th yr DSE / 2nd yr MSc & IPHD DSE / PhD	
BIO 4110; BIO 6110	Cryo-Electron microscopy and 3D image processing for Life sciences / 3003 / Dr. Ramanathan Natesh	4th yr DSE / 2nd yr MSc & IPHD DSE / PhD / 4th yr PROTECTED MINOR	
BIO 4201; BIO 6201	Advanced Developmental Biology / 3003 / Dr. Jishy Varghese	4th yr DSE / 2nd yr MSc & IPHD DSE / PhD	
BIO 4024; BIO 6024	Population Genetics / 3003 / Dr. Yashraj Chavhan	3rd DSE / 4th yr DSE / 1st MSc & IPHD DSE / PhD	
BIO 4013; BIO 6013	Ecological Interactions / 3003 / Prof. Hema Somanathan / Dr. Ullasa Kodandaramaiah	3rd DSE / 4th yr DSE / 1st MSc & IPHD DSE / PhD	
BIO 4015; BIO 6015	Advances in Plant Biology / 3003 / Dr. Nitin Kamble / New faculty	3rd yr DSE / 4th yr DSE / 1st yr MSc & IPHD DSE / PhD	

