

MATHEMATICAL PHYSICS

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 1 - DSC 1 - Mathematical Physics I - T = 3 ; P = 1	
2	Hons. Semester 2 - DSC 4 - Mathematical Physics II - T = 2 ; P = 2	
3	Hons. Semester 3 - DSC 7 - Mathematical Physics III - T = 3 ; P = 1	
4	Hons. Semester 6 - DSC 18 Modelling and Statistical Analysis in Physics - T = 2 ; P = 2	
5	Hons. Semester 3 - DSE 2 - Numerical Analysis - T = 2 ; P = 2	Prof. T. R. Seshadri (Department) Prof. Kirti Ranjan (Department)
6	Hons. Semester 4 - DSE 3 - Advanced Mathematical Physics I - T = 4 ; P = 0	
7	Hons. Semester 6 - DSE 9 - Advanced Mathematical Physics II - T = 4 ; P = 0	
8	Hons. Semester 7 - DSE 15 - Group Theory and Applications - T = 4 ; P = 0	Dr. Agam K. Jha (KMC) Prof. Mamta Dahiya (SGTB)
9	Hons. Semester 7 - DSE 17 - Advanced Mathematical Physics III - T = 4 ; P = 0	Prof. Savinder Kaur (SGTB) Dr. A. K. Choudhary (SVC) Dr. Manish Kansal (HC)
10	GE 2 - Mathematical Physics - T = 3 ; P = 0 ; Tut = 1	
11	GE 8 - Numerical Analysis and Computational Physics - T = 2 ; P = 2 ; Tut = 0	Dr. Supriti Das (GC) Dr. Sandeep Kumar (DDU)
12	Prog. Semester 3 - DSE 13b Physics - Mathematical Physics I - T = 4 ; P = 0	Dr. Sanju (MH)
13	Prog. Semester 4 - DSE 14a Physics - Numerical Analysis - T = 2 ; P = 2	Dr. Meenu Mohil (ANDC) Dr. Usha Kulshreshtha (KMC)
14	Prog. Semester 6 - DSE 16a Physics - Mathematical Physics II - T = 4 ; P = 0	Prof. Sukanta Dutta (SGTB) Dr. Sangeeta Gadre (KMC)
15	Prog. (Electronics) Semester 3 - Physics DSE 2 - Mathematical Physics I - T = 4 ; P = 0	Mr. Ashish Tyagi (SSN)
16	Prog. (Electronics) Semester 4 - Physics DSE 11 - Numerical Analysis - T = 2 ; P = 2	
17	Analytical Chemistry – DSE - Mathematical Physics I – T = 4 ; P = 0	
18	Industrial Chemistry – DSE - Mathematical Physics I – T = 4 ; P = 0	
19	Analytical Chemistry – DSE - Mathematical Physics II – T = 4 ; P = 0	
20	Industrial Chemistry – DSE - Mathematical Physics II – T = 4 ; P = 0	

MECHANICS

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 1 - DSC 2 – Mechanics - T = 3 ; P = 1	Prof. Sanjay Jain (Department) Prof. Debjyoti Choudhary (Department)
2	Hons. Semester 7 - DSC 19 - Classical Mechanics - T = 4 ; P = 0	Prof. T. R. Seshadri (Department) Prof. Ashutosh Bhardwaj (Department)
3	Hons. Semester 8 - DSE 20 - Applied Dynamics - T = 4 ; P = 0	Prof. Hashmi (Department) Prof. Avdhesh K. Prasad (Department)
4	GE 1 – Mechanics - T = 3 ; P = 1 ; Tut = 0	Prof. Mamta Dahiya (SGTB) Dr. Sangeeta Gadre (KMC)
5	GE 9 - Applied Dynamics - T = 3 ; P = 0 ; Tut = 1	
6	Prog. Semester 1 - Physics DSC 1 – Mechanics - T = 2 ; P = 2	Prof. Sukanta Dutta (SGTB) Prof. Ashok Kumar (RJC)
7	Prog. Semester 7 - DSE 17c Physics - Classical Dynamics - T = 3 ; P = 0 ; Tut = 1	Dr. Sanjay Kumar (SSC) Dr. Manisha Verma (ANDC)
8	Prog. (Electronics) Semester 1 - Physics DSC 1 – Mechanics - T = 2 ; P = 2	Prof. Pragati (HC) Dr. Shalini Lumb (MC)
9	Prog. (Electronics) Semester 7 - Physics DSE 8 – Classical Dynamics - T = 3 ; P = 0 ; Tut = 1	Dr. Anita (GC) Dr. Vandana Arora (KMV)
10	Analytical Chemistry – Semester 1 - DSC – Mechanics – T = 2 ; P = 2	Prof. Deepak Jain (DDU) Dr. Sushil Singh (SGTB)
11	Industrial Chemistry – Semester 1 - DSC - Mechanics – T = 2 ; P = 2	Dr. Abhinav Gupta (SSC) Dr. Manisha Bhutani (BNC)

WAVES – OSCILLATIONS/ OPTICS

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 1 - DSC 3 - Waves and Oscillation - T = 2 ; P = 2	Prof. T. R. Seshadri (department) Prof. A. G. Vedeshwar (Department) Dr. P. Senthil Kumar (Department) Prof. Ashok Kumar (RJC) Dr. Sangeeta Gadre (KMC) Dr. Sanjay Kumar (SSC) Prof. Pushpa Bindal (KC) Dr. Nimmi Singh (SGTB) Prof. Chetana Jain (HRC) Dr. Vandana Verma (MH) Dr. Mamta Dahiya (SGTB) Mr. Sandeep (DDU)
2	Hons. Semester 8 - DSE 21 - Applied Optics - T = 2 ; P = 2	
3	GE 3 - Waves and Optics - T = 3 ; P = 1 ; Tut = 0	
4	Prog. Semester 4 - Physics DSC 4 - Waves and Optics - T = 2 ; P = 2	
5	Prog. Semester 6 - DSE 16c Physics - Laser Physics and its Applications - T = 2 ; P = 2	
6	Prog. Semester 8 - DSE 18d Physics - Photonics - T = 2 ; P = 2	
7	Prog. (Electronics) Semester 4 - Physics DSC 7 - Waves and Optics - T = 2 ; P = 2	
8	Analytical Chemistry –DSC - Waves and Optics – T = 2 ; P = 2	
9	Industrial Chemistry –DSC - Waves and Optics – T = 2 ; P = 2	

ELECTRICITY, MAGNETISM AND ELECTRODYNAMICS

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 2 - DSC 5 - Electricity and Magnetism - T = 3 ; P = 1	Prof. Shobhit Mahajan (Department) Prof. Sourav Sur (Department) Prof. D. N. Gupta (Department) Prof. Sukanta Dutta (SGTB) Dr. Sangeeta Gadre (KMC) Dr. Narendra Kumar (SVC) Mr. Ashish Tyagi (SSN) Prof. Subhash Kumar (ANDC) Dr. Mamta (SC) Mr. Sandeep (DDU) Prof. Chetana Jain (HRC)
2	Hons. Semester 2 - DSC 6 - Electrical Circuit Analysis - T = 2 ; P = 2	
3	Hons. Semester 5 - DSC 13 - Electromagnetic Theory - T = 3 ; P = 1	
4	Hons. Semester 7 - DSE 13 - Plasma Physics - T = 4 ; P = 0	
5	GE 11 - Electricity and Magnetism - T = 2 ; P = 2 ; Tut = 0	
6	Prog. Semester 2 - Physics DSC 2 - Electricity and Magnetism - T = 2 ; P = 2	
7	Prog. Semester 8 - Physics DSC 8 - Electromagnetic Theory - T = 4 ; P = 0	
8	Prog. (Electronics) Semester 2 - Physics DSC 3 - Electricity and Magnetism - T = 2 ; P = 2	
9	Prog. (Electronics) Semester 8 - Physics DSC 12 - Electromagnetic Theory - T = 4 ; P = 0	
10	Analytical Chemistry – DSE - Electricity and Magnetism – T = 2 ; P = 2	
11	Industrial Chemistry – DSE - Electricity and Magnetism – T = 2 ; P = 2	

THERMAL PHYSICS AND STATISTICAL MECHANICS

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 3 - DSC 8 - Thermal Physics - T = 3 ; P = 1	Prof. Sanjay Jain (Department) Prof. Kirti Ranjan (Department)
2	Hons. Semester 6 - DSC 16 - Statistical Mechanics - T = 4 ; P = 0	Prof. Ashok Kumar (RJC) Dr. Nimmi Singh (SGTB)
3	GE 12 - Thermal Physics - T = 3 ; P = 1 ; Tut = 0	
4	Prog. Semester 3 - Physics DSC 3 – Heat and Thermodynamics - T = 2 ; P = 2	Prof. Deepak Jain (DDU) Prof. Punita Verma (KC)
5	Prog. Semester 8 - DSE 18c Physics - Statistical Physics - T = 4 ; P = 0	Prof. K Chandramani Singh (SVC) Dr. Seema Gupta (KC)
6	Prog. (Electronics) Semester 3 - Physics DSC 5 - Heat and Thermodynamics - T = 2 ; P = 2	Dr. Sanjay Kumar (SSC) Dr. Pratima Vyas (SVC)
7	Prog. (Electronics) Semester 8 - Physics DSE 19 - Statistical Physics - T = 4 ; P = 0	Dr. Alka Vohra (Rajguru) Dr. Anuradha Gupta (SGTB)
8	Analytical Chemistry –DSC - Thermal Physics and Statistical Mechanics – T = 2 ; P = 2	Dr. Sonia Lumb (Rajdhani) Dr. Maya Verma (HRC)
9	Industrial Chemistry –DSC - Thermal Physics and Statistical Mechanics – T = 2 ; P = 2	Dr. Neelam Singh (HRC) Dr. Bilasini Devi naorem (MH) Prof. Chetana Jain (HRC)

LIGHT AND MATTER/ MODERN PHYSICS/ QUANTUM MECHANICS

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 3 - DSC 9 - Light and Matter - T = 2 ; P = 2	Prof Debjyoti Choudhary (Department) Prof. T. R. Seshadri (Department) Prof. Binay Kumar (Department) Prof. Jyoti Rajput (Department) Prof. Punita Verma (KC) Prof. Rakesh Pandey (KMC) Prof. Ashok Kumar (RJC) Prof. Mamta Dahiya (SGTB) Dr. Ritu Dhingra (MC) Prof. Savinder Kaur (SGTB) Dr. Abhinav Gupta (SSC) Dr. Navina Mehan (DSC) Dr. Manish Kumar (ARSD) Dr. Sudha Gulati (KC)
2	Hons. Semester 4 - DSC 10 - Modern Physics - T = 3 ; P = 1	
3	Hons. Semester 5 - DSC 14 - Quantum Mechanics I - T = 3 ; P = 1	
4	Hons. Semester 6 - DSC 17 - Atomic, Molecular and Nuclear Physics - T = 4 ; P = 0	
5	Hons. Semester 8 - DSC 20 - Quantum Mechanics II - T = 4 ; P = 0	
6	Hons. Semester 7 - DSE 16 - Radiation and its Applications - T = 2 ; P = 2	
7	Hons. Semester 8 - DSE 24 - Quantum Information - T = 4 ; P = 0	
8	GE 10 - Quantum Information - T = 3 ; P = 0 ; Tut = 1	
9	GE 13 - Modern Physics - T = 3 ; P = 1 ; Tut = 0	
10	GE 15 - Quantum Mechanics - T = 3 ; P = 0 ; Tut = 1	
11	GE 20 - Atomic and Molecular Physics - T = 3 ; P = 0 ; Tut = 1	
12	Prog. Semester 5 - Physics DSC 5 - Modern Physics - T = 2 ; P = 2	
13	Prog. Semester 7 - Physics DSC 7 - Quantum Mechanics - T = 4 ; P = 0	
14	Prog. Semester 5 - DSE 15c Physics - Radiation and its Applications - T = 2 ; P = 2	
15	Prog. Semester 7 - DSE 17b Physics - Introduction to Atomic and Molecular Physics - T = 4 ; P = 0	
16	Prog. (Electronics) Semester 5 - Physics DSC 9 - Modern Physics - T = 2 ; P = 2	
17	Prog. (Electronics) Semester 7 - Physics DSC 11 - Quantum Mechanics - T = 4 ; P = 0	
18	Prog. (Electronics) Semester 7 - Physics DSE 7 - Introduction to Atomic and Molecular Physics - T = 4 ; P = 0	
19	Analytical Chemistry - DSE - Elements of Modern Physics - T = 2 ; P = 2	
20	Industrial Chemistry - DSE - Elements of Modern Physics - T = 2 ; P = 2	
21	Analytical Chemistry - DSE - Quantum Mechanics - T = 2 ; P = 2	
22	Industrial Chemistry - DSE - Quantum Mechanics - T = 2 ; P = 2	

SOLID STATE PHYSICS

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 4 - DSC 11 - Solid State Physics - T = 3 ; P = 1	Prof. S. Annapurni (Department) Prof. Poonam Silotia (Department) Prof. Binay Kumar (Department) Dr. Geetanjali Sethi (SSC) Dr. Alka Garg (GC) Dr. Seema Gupta (KC) Dr. Harish Yadav (SSC) Dr. Sangeeta Sachdeva (SSC)
2	Hons. Semester 4 - DSE 4 - Physics of Devices - T = 2 ; P = 2	
3	Hons. Semester 5 - DSE 7 - Physics of Materials - T = 2 ; P = 2	
4	Hons. Semester 7 - DSE 12 - Nano Science - T = 2 ; P = 2	
5	GE 5 - Solid State Physics - T = 3 ; P = 0 ; Tut = 1	
6	GE 17 - Nano Physics - T = 2 ; P = 2 ; Tut = 0	
7	Prog. Semester 6 - Physics DSC 6 - Solid State Physics - T = 2 ; P = 2	
8	Prog. Semester 7 - DSE 17a Physics - Physics of Materials - T = 2 ; P = 2	
9	Prog. Semester 8 - DSE 18a Physics - Nano Science - T = 2 ; P = 2	
10	Prog. (Electronics) Semester 6 - Physics DSC 10 - Solid State Physics - T = 2 ; P = 2	
11	Prog. (Electronics) Semester 7 - Physics DSE 6 - Physics of Materials - T = 2 ; P = 2	
12	Prog. (Electronics) Semester 8 - Physics DSE 17 - Nano Science - T = 2 ; P = 2	
13	Analytical Chemistry – DSE - Solid State Physics – T = 2 ; P = 2	
14	Industrial Chemistry – DSE - Solid State Physics – T = 2 ; P = 2	

ELECTRONICS

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 4 - DSC 12 - Analog Electronics - T = 2 ; P = 2	Prof. S. A. Hashmi (Department) Prof. Amita Chandra (Department) Prof. Monika Tomar (MH) Dr. Sanjay Tandon (DDU) Prof. Arijit Choudhary (ANDC) Dr. Alka Garg (GC) Dr. Divya Haridas (KMV) Dr. Anju Agrawal (DDU) Dr. Ritu Dhingra (MC) Dr. Jacob Cherian (SSC) Dr. Harish Kumar Yadav (SSC) Dr. Shankar (ARSD) Dr. Vandana Batra (BCAS) Dr. Neena Khanijo (KMC) Dr. Kajal Jindal (KMC) Dr. Anjali Sharma (ARSD) Dr. Reema Gupta (HC)
2	Hons. Semester 5 - DSC 15 - Digital Electronics - T = 3 ; P = 1	
3	GE 4 - Introduction to Electronics - T = 2 ; P = 2 ; Tut = 0	
4	GE 16 - Introduction to Embedded System Design - T = 2 ; P = 2 ; Tut = 0	
5	Hons. Semester 5 - DSE 8 - Communication System - T = 2 ; P = 2	
6	Hons. Semester 6 - DSE 10 – Microprocessor - T = 2 ; P = 2	
7	Prog. Semester 5 - DSE 15b Physics - Digital Electronics - T = 2 ; P = 2	
8	Prog. Semester 7 - DSE 17d Physics - Microprocessor - T = 2 ; P = 2	
9	Prog. Semester 4 - DSE 14b Physics - Analog Electronics - T = 2 ; P = 2	
10	Prog. Semester 6 - DSE 16b Physics - Communication System - T = 2 ; P = 2	
11	Prog. Semester 7 - DSE 17e Physics - Sensors and Detectors - T = 2 ; P = 2	
12	Prog. (Electronics) Semester 1 - Physics DSC 2 - Network Analysis and Analog Electronics - T = 2 ; P = 2	
13	Prog. (Electronics) Semester 2 - Physics DSC 4 - Linear and Digital Integrated Circuits - T = 2 ; P = 2	
14	Prog. (Electronics) Semester 3 - Physics DSC 6 – Communication Electronics - T = 2 ; P = 2	
15	Prog. (Electronics) Semester 4 - Physics DSC 8 - Microprocessor and Microcontroller - T = 2 ; P = 2	
16	Prog. (Electronics) Semester 5 - Physics DSE 3 – Semiconductor Devices Fabrication - T = 2 ; P = 2	
17	Prog. (Electronics) Semester 5 - Physics DSE 4 – Electronics Instrumentation - T = 2 ; P = 2	
18	Prog. (Electronics) Semester 5 - Physics DSE 5 – Digital Signal Processing - T = 2 ; P = 2	
19	Prog. (Electronics) Semester 6 - Physics DSE 14 – Verilog and FPGA based System Design - T = 2 ; P = 2	
20	Prog. (Electronics) Semester 6 - Physics DSE 15 – Photonic Devices and Power Electronics - T = 2 ; P = 2	
21	Prog. (Electronics) Semester 6 - Physics DSE 16 – Antenna Theory and Wireless Network - T = 2 ; P = 2	
22	Prog. (Electronics) Semester 7 - Physics DSE 9 - Sensors and Detectors - T = 2 ; P = 2	

BIOPHYSICS

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 3 - DSE 1 – Biophysics - T = 3 ; P = 1	Prof. Sanjay Jain (Department) Prof. Chetana Jain (HRC)
2	GE 7 - Biological Physics - T = 3 ; P = 0 ; Tut = 1	
3	Prog. Semester 3 - DSE 13a Physics – Biophysics - T = 3 ; P = 1	
4	Prog. (Electronics) Semester 3 - Physics DSE 1 – Biophysics - T = 3 ; P = 1	

ASTRONOMY AND ASTROPHYSICS

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 5 - DSE 6 - Astronomy and Astrophysics - T = 4 ; P = 0	Prof. T. R. Seshadri (Department) Prof. Shobhit Mahajan (Department)
2	GE 6 - Introductory Astronomy - T = 3 ; P = 0 ; Tut = 1	Prof. Chetana Jain (HRC) Prof. Deepak Jain (DDU)
3	GE 14 - Introductory Astronomy - T = 3 ; P = 0 ; Tut = 1	Dr. Sanjay Kumar (SSC) Prof. Subhash Kumar (ANDC) Dr. Partha Pal (BCAS)
4	Prog. Semester 5 - DSE 15a Physics - Astronomy and Astrophysics - T = 4 ; P = 0	Dr. Amit Tanwar (HC) Dr. Hira Joshi (GC)

RESEARCH METHODOLOGY

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 6 - DSE 11 - Research Methodology - T = 3 ; P = 1	Prof. T. R. Seshadri (Department)
2	Hons. Semester 7 - DSE 19 - Research Methodology - T = 3 ; P = 1	Prof. Kirti Ranjan (Department) Prof. Jyoti Rajput (Department)
3	Prog. Semester 6 - DSE 16d Physics - Research Methodology - T = 3 ; P = 1	Prof. P. Senthil Kumar (Department)
4	Prog. Semester 7 - DSE 17f Physics - Research Methodology - T = 3 ; P = 1	Prof. Punita Verma (KC) Prof. Rakesh Pandey (KMC)
5	Prog. (Electronics) Semester 6 - Physics DSE 10 – Research Methodology - T = 3 ; P = 1	Prof. Deepak Jain (DDU)
6	Prog. (Electronics) Semester 7 - Physics DSE 13 – Research Methodology - T = 3 ; P = 1	Prof. Chetana Jain (HRC)

PARTICLE PHYSICS

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 7 - DSE 14 - Introduction to Particle Physics - T = 4 ; P = 0	Prof. Brajesh Choudhary (Department) Prof. P. D. Sahare (Department) Prof. Kirti Ranjan (Department) Prof. Md. Naimuddin (Department) Prof. Sukanta Dutta (SGTB) Prof. Punita Verma (KC) Prof. Mamta Dahiya (SGTB)
2	Hons. Semester 8 - DSE 22 - Introduction to Field Theory - T = 4 ; P = 0	
3	Hons. Semester 8 - DSE 23 - Nuclear and Particle Detectors - T = 4 ; P = 0	
4	Hons. Semester 8 - DSE 25 - General Theory of Relativity - T = 4 ; P = 0	
5	GE 18 - Physics of Detectors - T = 3 ; P = 0 ; Tut = 1	
6	GE 19 - Nuclear and Particle Physics - T = 3 ; P = 0 ; Tut = 1	
7	Prog. Semester 8 - DSE 18b Physics - Nuclear and Particle Physics - T = 4 ; P = 0	
8	Prog. (Electronics) Semester 8 - Physics DSE 18 – Nuclear and Particle Physics - T = 4 ; P = 0	

PHYSICS OF EARTH

S. No.	Paper Details	Name of the Faculty
1	Hons. Semester 4 - DSE 5 - Physics of Earth - T = 4 ; P = 0	Prof. Sanjay Jain (Department) Prof. S. K. Dhaka Prof. Vinod Prasad Dr. Jacob Cherian (SSC) Dr. Ishpal (KMC)
2	Hons. Semester 7 - DSE 18 - Physics of Atmosphere and Climate Change - T = 3 ; P = 1	
3	Prog. Semester 4 - DSE 14c Physics - Physics of Earth - T = 4 ; P = 0	
4	Prog. Semester 8 - DSE 18e Physics – Physics of Atmosphere and Climate Change – T = 3 ; P = 1	
5	Prog. (Electronics) Semester 4 - Physics DSE 12 - Physics of Earth - T = 4 ; P = 0	
6	Prog. (Electronics) Semester 8 - Physics DSE 20 Physics of Atmosphere and Climate Change - T = 3 ; P = 1	