Department of Physics

Academic Calender and Academic Plan

1st Semester Honours Course (July 2018 - Dec 2018) CCH 01

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)
CCH 01	1	It consists of preliminary ideas of calculus like limit, continuity,	AS	July		YES
CCH 01	2	It consists of a study of differential equations	AS	August		YES
CCH 01	3	It consists of vector differentiation, integration	AS	Sep-Nov		YES
CCH 01	4	It consists of a study of curvilinear coordinates	AS	December		YES
CCH 01	1	It consists of a study of matrices	BM	July-August		YES
Course Outcome	The course provides a knowledge of vectors and matrices					

1st Semester Honours Course (July 2018 - Dec 2018) CCH 02

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)
CCH 02	1	It consists of a study of mechanics	BM	July-August		YES
CCH 02	2	It consists of a study of central forces	BM	Sep-Nov		YES
CCH 02	1	It consists of a study of Gravitation	SM	July-August		YES
CCH 02	2	It consists of a study of Rigid Bodies	SM	September		YES
CCH 02	3	It consists of a study of Elasticity of matter	SM	Nov-Dec		YES
Course Outcome	The course provides a knowledge of mechanics and general properties of matter					

2nd Semester Honours Course (Jan 2019 - June 2019) CCH 03

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)

CCH 03	1	It consists of the study of the electrostatic field including Laplace equation and image problem,capacitance	AS	Jan-Feb		YES
CCH 03	2	It comprises the study of Dielectric properties of matter, the Magnetostatic Field	AS	March-15th april		YES
CCH 03	3	It consists of the study of the magnetic properties of matter and electromagnetic induction	AS	16th April-15th May		YES
CCH 03	1	It consists of a study of network Theorems	BM	January		YES
Course Outcome	The course provides a knowledge of electrstatics and network theorems					

2nd Semester Honours Course (Jan 2019 - June 2019) CCH 04

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)
CCH 04	1	It consists of a study of simple harmonic motion	BM	Feb-March		YES
CCH 04	2	It consists of a study of plane and spherical waves	BM	April-15th May		YES
CCH 04	1	It consists of a study of damped harmonic motion	SM	Jan-Feb		YES

CCH 04	2	It consists of a study of the phenomenon of Interference	SM	March-15th april		YES
CCH 04	3	It consists of a study of the phenomenon of diffraction	SM	16th April-15th May		YES
Course Outcome	The course provides a knowledge of waves and optics					

3rd Semester Honours Course (July 2019 - Dec 2019) CCH 05

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)
CCH 05	1	Fourier Series	AS	July		YES
CCH 05	2	Frobenius Method and Special Functions	AS	August		YES
CCH 05	3	Some Special Integrals;	AS	September		YES
CCH 05	4	Variational Calculus in Physics	AS	November		YES
CCH 05	5	Partial Differential Equations	AS	December		YES

Course Outcome	The course provides a knowledge of Fourier series, Special functions, variational calculus and partial differential equations

3rd Semester Honours Course (July 2019 - Dec 2019) CCH 06

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)
CCH 06	1	It refers to physical phenomena arising out of the First law of thermodynamics	SM	July		YES
CCH 06	2	It refers to physical phenomena arising out of the real gases with prime focus on Van der-Waals equation of state including first and second law of thermodynamics	SM	August		YES
CCH 06	3	It refers to physical phenomena arising out of the Second law and Entropy of thermodynamics.	SM	September		YES
CCH 06	4	Kinetic Theory of Gases	SM	November		YES
CCH 06	5	Heat Conduction	SM	December		YES

Course Outcome	The course provides a knowledge of Thermodynamics,kinetic theory of gases and heat conduction

3rd Semester Honours Course (July 2019 - Dec 2019) CCH 07

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)
CCH 07	1	Integrated Circuits Digital Circuits Boolean algebra,: Data Processing Circuits	BM	July		YES
CCH 07	2	: Sequential Circuits	BM	August		YES
CCH 07	3	Timers	BM	September		YES
CCH 07	4	Shift Registers	BM	1st Nov-15th Nov		YES
CCH 07	5	Counters	BM	16th Nov-30 Nov		YES
CCH 07	6	Computer Organisations	BM	December		YES
Course Outcome	The course provides a knowledge of Digital Electronics					

3rd Semester Honours Course (July 2019 - Dec 2019) SEC

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)
SEC	1	Diodes	AS	Jan-Feb		YES
SEC	2	Transistors	AS	March-April		YES
SEC	1	Circuit Symbols	BM	Jan-Feb		YES
SEC	2	Transients	BM	March-April		YES
SEC	1	Alternating currents	SM	Jan-Feb		YES
SEC	2	3-phase AC	SM	March-April		YES
Course Outcome	The course provides an overview of electronic and electrical circuits					

4th Semester Honours Course (Jan 2020 - Jun 2020) CCH 08

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)
CCH 08	1	Basics of Complex Numbers	AS	January		YES
CCH 08	2	Cauchy Riemann equations	AS	February		YES

CCH 08	3	Cauchy Residue Theorem	AS	March		YES
CCH 08	4	Variational Calculus in Physics	AS	1st April -15th April		YES
CCH 08	5	Special Theory of Relativity	AS	!6th April -15th May		YES
Course Outcome	The course provides a knowledge of complex analysis,variatiional calculus,special theory of relativity					

4th Semester Honours Course (Jan 2020 - Jun 2020) CCH 09

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)
CCH 09	1	Blackbody Radiation & Position Measurement	BM	January		YES
CCH 09	2	Postulates of Quantum Mechanics	BM	February		YES
CCH 09	3	Size & structures of Atomic Molecules	BM	March		YES

CCH 09	4	Radioactivity	BM	1st April -15th April		YES
CCH 09	5	Fission & Fusion	BM	!6th April -15th May		YES
Course Outcome	The course provides a knowledge of modern physics					

4th Semester Honours Course (Jan 2020 - Jun 2020) CCH 10

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)
CCH 10	1	It introduces the study of the discrete component.	SM	January		YES
CCH 10	2	It introduces the study of the P and N type semiconductor diodes and its application.	SM	February		YES
CCH 10	3	It consist the study of the regulation of Zener diode.	SM	March		YES
CCH 10	4	It introduces the study of the junction transistor and biasing	SM	April		YES

CCH 10	5	It consist the study of the transistor amplifier and its feedback.	SM	May		YES
Course Outcome	The course provides a knowledge of analog electronics					

4th Semester Honours Course (Jan 2020 - Jun 2020) SEC

Name of the paper	Module or Unit No	Topic	Name of the teacher	To be Completed during	No of PPT classes	Continuous Internal Assesment Schedule (write yes or no)
SEC	1	Fossil Fuel and Alternate Source of Energy	SM	Jan-Feb		YES
SEC	2	Solar Energy	SM	March		YES
SEC	3	Wind Energy Harvesting	SM	April-15th May		YES
SEC	1	Ocean Energy	BM	Jan-Feb		YES
SEC	2	Geothermal Energy	BM	March		YES
SEC	3	Hydro Energy	BM	April-15th May		YES
SEC	1	Piezoelectric Energy Harvesting	AS	Jan_Feb		YES
SEC	2	Electromagnetic Energy Harvesting	AS	Mar-April		YES
Course Outcome	The course provides a knowledge of renewable energy sources					