



P.K.R. ARTS COLLEGE FOR WOMEN

(An Autonomous Institution-Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade

Gobichettipalayam – 638 476, Erode District, Tamil Nadu, India Website:

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NAAC
2nd Cycle

Criterion I
Metric 1.1.1

Courses focus on Global, National, Regional and Local Needs Academic Year: 2021-22

Year of Syllabus Revision	Programme	Code	Title of the Course	Need				Description
				Local	Regional	National	Global	
2021-22	B.Sc	21PHU01	Mechanics				✓	To provide the student's deeper knowledge in motion of the particles & objects
2021-22	B.Sc	21PHU02	Mathematics – I				✓	To enable the students to learn about matrices and determinants, different types of equations, Laplace transforms and Fourier series
2021-22	B.Sc	21FCU01	Environmental studies (Curriculum as recommended by UGC)			✓		To bring about an awareness of a variety of environmental concerns and to create a pro-environmental attitude and a behavioural pattern in society that is based on creating sustainable lifestyle
2021-22	B.Sc	21PHU03	Heat and Thermodynamics				✓	The student acquires the extensive fundamental knowledge about transfer of thermal energy by different analysis and to provide the basic knowledge of thermodynamics
2021-22	B.Sc	21PHU04	Mathematics – II				✓	To enable the students to learn and gain the knowledge and ideas about curvature, multiple integrals, Ordinary and Partial differential equations
2021-22	B.Sc	21PHU05	Physics – Practical I				✓	To provide the student's deeper knowledge in motion of the particles & objects
2021-22	B.Sc	21FCU02	Yoga and Ethics				✓	To enable the learners to acquire the knowledge on basic yogasanas and values and practice them in real life

2021-22	B.Sc	21PHU06	Optics				✓	To provide a knowledge about the optical instruments and nature of light
2021-22	B.Sc	21PHU07	Chemistry - I				✓	The aim is to provide the student to understand problems associated with hard water and treatment methods. To understand about basic concepts of organic chemistry, Metals and its extraction & basic aspects of chemical kinetics and photochemistry
2021-22	B.Sc	21AEU01	Information Security			✓		To learn about the basics of Information Security
2021-22	B.Sc	21NMU01A	Indian Women and Society			✓		To familiarize students with the specific cultural contexts of women in India
2021-22	B.Sc	21PHU08	Mathematical Physics				✓	The aim is to provide the student to acquire knowledge and apply it to various physical problems and to develop the problem-solving ability
2021-22	B.Sc	21PHU09	Chemistry - II				✓	The aim is to provide the student to acquire knowledge about experimental techniques in chemistry & to apply chemistry in Batteries
2021-22	B.Sc	21PHU10	Physics - Practical II				✓	The aim is to provide the students acquire practical knowledge of physics experiments to handling of experiments and comprehend about different equipment used
2021-22	B.Sc	21PHU11	Allied Chemistry - Practical				✓	The aim is to provide the student to gain basic knowledge in Practical Chemistry & also to understand a basic concept in both qualitative & quantitative analysis
2021-22	B.Sc	21SEPHU01	Energy Resources			✓		The aim is to provide the student to acquire knowledge of Conventional and non-Conventional Energy Sources and apply it in day to day life & to understand the Importance of energy management

2021-22	B.Sc	21AEU02	Consumer Rights (Curriculum as recommended by UGC)			✓		This paper seeks to familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights
2021-22	B.Sc	21PHU12	Properties of Matter & Sound				✓	The aim is to identify the characteristics of matter in terms their properties and to know the basic principles of acoustics
2021-22	B.Sc	21PHU13	Solid State Physics				✓	To acquire knowledge about solids materials and their bonds. To motivate the students in order to apply the principles of band theory in their research studies
2021-22	B.Sc	21PHU14	Electronics & Communication		✓			To provide the students to acquire knowledge about various electronic instruments and motivate them to apply principles of electronics in their day to day life
2021-22	B.Sc	21PHU15A / 21PHU15B / 21PHU15C	Institutional training/ Articleship Training/ Mini Project				✓	To provide the students a deeper knowledge in Institutional training, Industrial Training, Mini Project – creating a opportunity for the students
2021-22	B.Sc	21PHU16A	Digital Electronics and Microprocessor				✓	The aim is to provide basic knowledge of binary addition, combinations of logic circuits & microprocessor
2021-22	B.Sc	21PHU16B	Soil Physics	✓				The aim is to provide the student to gain deeper knowledge and understanding of mechanical properties of soils and learn information about transfer processes in soils then know about the saturated and unsaturated soils
2021-22	B.Sc	21PHU16C	Geo Physics			✓		The aim is to provide the student to gain deeper knowledge in geological Physics, earth structure & fossil animals

2021-22	B.Sc	21PHUOE 1	Physics in day-to-day Life	✓				To demonstrate knowledge and understanding of the fundamental concepts in Physics
2021-22	B.Sc	21SEU02	Life Skills (Jeevan Kaushal) (Curriculum as recommended by UGC)			✓		To inculcate both personal and professional skills in the students in the areas of understanding of self and others, interpersonal skills, high performance teams, leadership potential, communication & presentation skills, techniques of problem solving, decision making, fostering creativity and innovation for personal and professional excellence, stress management, time management and conflict management and inculcation of human values
2021-22	B.Sc	21PEU01	Lasers (Self-Study)			✓		The aim is to provide the students to know the principles of laser light and also the applications of Lasers
2021-22	B.Sc	21PHU17	Quantum Mechanics and Relativity				✓	To develop the problem-solving ability and to motivate the students to apply Schrodinger's equation or solving problems in wave mechanics, nuclear physics etc.,
2021-22	B.Sc	21PHU18	Atomic and Nuclear Physics				✓	The aim is to provide the student to acquire knowledge about atom, Nucleus and their properties. To motivate the students in order to apply the principles of radio activity in their research studies
2021-22	B.Sc	21PHU19	Electricity and Magnetism				✓	To acquire knowledge in electricity and magnetism, problem solving ability & also understand the laws and equations

2021-22	B.Sc	21PHU20	Applied Instrumentation				✓	To provide a good foundation in measurements, knowledge of the behavior of instruments and to inspire interest for the knowledge of concepts regarding measurements
2021-22	B.Sc	21PHU21	Electronics - Practical III		✓			The aim is to provide the students better practical knowledge of core electronic experiments, to know about different equipment and to learn to handle them
2021-22	B.Sc	21PHU22	Digital Electronics and Microprocessor - Practical IV				✓	The aim is to provide the students better practical knowledge in digital electronics and microprocessor programs and to learn the execution of microprocessor programs and construction of circuits using discrete components
2021-22	B.Sc	21PHU23A	Basic Concepts of C, C++	✓				The aim is to provide the student gain knowledge on of basics of C and C++
2021-22	B.Sc	21PHU23B	Introduction to Space Physics				✓	The aim is to provide the student gain knowledge on astronomical backgrounds, astronomical concepts and Understand cosmic rays
2021-22	B.Sc	21PHU23C	Smart Materials				✓	To gain deeper knowledge of smart materials, sensors, actuators & the advances in smart materials
2021-22	B.Sc	21SEPHU03	Programming in C, C++ - Practical	✓				The aim of the course is to develop the skill to gain knowledge in programming in C and C++

2021-22	B.Sc	21PHU20	Applied Instrumentation				✓	To provide a good foundation in measurements, knowledge of the behavior of instruments and to inspire interest for the knowledge of concepts regarding measurements
2021-22	B.Sc	21PHU21	Electronics - Practical III			✓		The aim is to provide the students better practical knowledge of core electronic experiments, to know about different equipment and to learn to handle them
2021-22	B.Sc	21PHU22	Digital Electronics and Microprocessor - Practical IV				✓	The aim is to provide the students better practical knowledge in digital electronics and microprocessor programs and to learn the execution of microprocessor programs and construction of circuits using discrete components
2021-22	B.Sc	21PHU23A	Basic Concepts of C, C++	✓				The aim is to provide the student gain knowledge on of basics of C and C++
2021-22	B.Sc	21PHU23B	Introduction to Space Physics				✓	The aim is to provide the student gain knowledge on astronomical backgrounds, astronomical concepts and Understand cosmic rays
2021-22	B.Sc	21PHU23C	Smart Materials				✓	To gain deeper knowledge of smart materials, sensors, actuators & the advances in smart materials
2021-22	B.Sc	21SEPHU03	Programming in C, C++ - Practical	✓				The aim of the course is to develop the skill to gain knowledge in programming in C and C++



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Courses focus on Global, National, Regional and Local Needs Academic Year: 2020-21

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				Local	Regional	National	Global	
2020-21	B.Sc	20PHU01	Mechanics				✓	To provide the student's deeper knowledge in motion of the particles & objects
2020-21	B.Sc	20PHU03	Mathematics – I				✓	To enable the students to learn about matrices and determinants, different types of equations, Laplace transforms and Fourier series
2020-21	B.Sc	20FCU01	Environmental studies			✓		To bring about an awareness of a variety of environmental concerns and to create a pro-environmental attitude and a behavioral pattern in society that is based on creating sustainable lifestyle
2020-21	B.Sc	20PHU05	Heat and Thermodynamics				✓	The student acquires the extensive fundamental knowledge about transfer of thermal energy by different analysis and to provide the basic knowledge of thermodynamics
2020-21	B.Sc	20PHU07	Mathematics – II				✓	To enable the students to learn and gain the knowledge and ideas about curvature, multiple integrals, Ordinary and Partial differential equations
2020-21	B.Sc	20PHU04	Physics – Practical I				✓	To provide the student's deeper knowledge in motion of the particles & objects
2020-21	B.Sc	20FCU02	Yoga and Ethics				✓	To enable the learners to acquire the knowledge on basic yogasanas and values and practice them in real life

2020-21	B.Sc	20PHU08	Optics				✓	To provide a knowledge about the optical instruments and nature of light
2020-21	B.Sc	20PHU10	Chemistry - I				✓	The aim is to provide the student to understand problems associated with hard water and treatment methods. To understand about basic concepts of organic chemistry, Metals and its extraction & basic aspects of chemical kinetics and photochemistry
2020-21	B.Sc	20AEU01	Information Security			✓		To learn about the basics of Information Security
2020-21	B.Sc	20NMU01A	Indian Women and Society			✓		To familiarize students with the specific cultural contexts of women in India
2020-21	B.Sc	20PHU13	Mathematical Physics				✓	The aim is to provide the student to acquire knowledge and apply it to various physical problems and to develop the problem solving ability
2020-21	B.Sc	20PHU15	Chemistry - II				✓	The aim is to provide the student to acquire knowledge about experimental techniques in chemistry & to apply chemistry in Batteries
2020-21	B.Sc	20PHU11	Physics - Practical II				✓	The aim is to provide the students acquire practical knowledge of physics experiments to handling of experiments and comprehend about different equipment used
2020-21	B.Sc	20PHU12	Allied Chemistry - Practical				✓	The aim is to provide the student to gain basic knowledge in Practical Chemistry & also to understand a basic concept in both qualitative & quantitative analysis

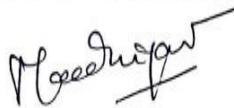
2020-21	B.Sc	20SEU01	Energy Resources			✓		The aim is to provide the student to acquire knowledge of Conventional and non- Conventional Energy Sources and apply it in day to day life & to understand the Importance of energy management
2020-21	B.Sc	20AEU02	Consumer Rights			✓		This paper seeks to familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights
2020-21	B.Sc	20PHU16	Properties of Matter & Sound				✓	The aim is to identify the characteristics of matter in terms their properties and to know the basic principles of acoustics
2020-21	B.Sc	20PHU17	Solid State Physics				✓	The aim is to acquire knowledge about solids materials and their bonds. To motivate the students in order to apply the principles of band theory in their research studies
2020-21	B.Sc	20PHU18	Electronics & Communication			✓		To provide the students to acquire knowledge about various electronic instruments and motivate them to apply principles of electronics in their day to day life
2020-21	B.Sc	20PHU20	Institutional training/Industrial Training/Mini Project				✓	To provide the students a deeper knowledge in Institutional training, Industrial Training, Mini Project – creating a opportunity for the students
2020-21	B.Sc	20PHU 23A	Digital Electronics and Microprocessor				✓	The aim is to provide basic knowledge of binary addition, combinations of logic circuits & microprocessor

2020-21	B.Sc	20PHU 23B	Soil Physics	✓				The aim is to provide the student to gain deeper knowledge and understanding of mechanical properties of soils and learn information about transfer processes in soils then know about the saturated and unsaturated soils
2020-21	B.Sc	20PHU 23C	Geo Physics			✓		The aim is to provide the student to gain deeper knowledge in geological Physics, earth structure & fossil animals
2020-21	B.Sc	21PHUOE1	Physics in day-to-day Life	✓				To demonstrate knowledge and understanding of the fundamental concepts in Physics
2020-21	B.Sc	20SEU02	Life Skills (Soft skills/Entrepreneurship skills/Homepreneurship)			✓		To inculcate both personal and professional skills in the students in the areas of understanding of self and others, interpersonal skills, high performance teams, leadership potential, communication & presentation skills, techniques of problem solving, decision making, fostering creativity and innovation for personal and professional excellence, stress management, time management and conflict management and inculcation of human values
2020-21	B.Sc	20PEUPH1	Lasers (Self-Study)			✓		The aim is to provide the students to know the principles of laser light and also the applications of Lasers
2020-21	B.Sc	20PHU24	Quantum Mechanics and Relativity				✓	To develop the problem solving ability and to motivate the students to apply Schrödinger's equation or solving problems in wave mechanics, nuclear physics etc.,

2020-21	B.Sc	20PHU25	Atomic and Nuclear Physics				✓	The aim is to provide the student to acquire knowledge about atom, nucleus and their properties. To motivate the students in order to apply the principles of radio activity in their research studies
2020-21	B.Sc	20PHU26	Electricity and Magnetism				✓	To acquire knowledge in electricity and magnetism, problem solving ability & also understand the laws and equations
2020-21	B.Sc	20PHU27	Applied Instrumentation				✓	To provide a good foundation in measurements, knowledge of the behaviour of instruments and to inspire interest for the knowledge of concepts regarding measurements
2020-21	B.Sc	20PHU21	Electronics - Practical III		✓			The aim is to provide the students better practical knowledge of core electronic experiments, to know about different equipment and to learn to handle them
2020-21	B.Sc	20PHU22	Digital Electronics and Microprocessor - Practical IV				✓	The aim is to provide the students better practical knowledge in digital electronics and microprocessor programs and to learn the execution of microprocessor programs and construction of circuits using discrete components
2020-21	B.Sc	20 PHU 29A	Basic Concepts of C, C++	✓				The aim is to provide the student gain knowledge on of basics of C and C++
2020-21	B.Sc	20 PHU 29B	Introduction to Space Physics				✓	The aim is to provide the student gain knowledge on astronomical backgrounds, astronomical concepts and Understand cosmic rays
2020-21	B.Sc	20 PHU 29C	Smart Materials				✓	To gain deeper knowledge of smart materials, sensors, actuators & the advances in smart materials

2020-21	B.Sc	20SEU03	Programming in C, C++ - Practical	✓				The aim of the course is to develop the skill to gain knowledge in programming in C and C++
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2020-21	B.Sc	20SEU03	Programming in C, C++ - Practical	✓				The aim of the course is to develop the skill to gain knowledge in programming in C and C++
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Courses focus on Global, National, Regional and Local Needs Academic Year: 2019-20

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				Local	Regional	National	Global	
2019-20	B.Sc	19PHU01	Mechanics				✓	To provide the student's deeper knowledge in motion of the particles & objects
2019-20	B.Sc	19PHU03	Mathematics – I				✓	To enable the students to learn about matrices and determinants, different types of equations, Laplace transforms and Fourier series
2019-20	B.Sc	19FCU01	Environmental studies			✓		To bring about an awareness of a variety of environmental concerns and to create a pro-environmental attitude and a behavioral pattern in society that is based on creating sustainable lifestyle
2019-20	B.Sc	19PHU05	Heat and Thermodynamics				✓	The student acquires the extensive fundamental knowledge about transfer of thermal energy by different analysis and to provide the basic knowledge of thermodynamics
2019-20	B.Sc	19PHU07	Mathematics – II				✓	To enable the students to learn and gain the knowledge and ideas about curvature, multiple integrals, Ordinary and Partial differential equations
2019-20	B.Sc	19PHU04	Physics – Practical I				✓	To provide the student's deeper knowledge in motion of the particles & objects
2019-20	B.Sc	19FCU02	Yoga and Ethics				✓	To enable the learners to acquire the knowledge on basic yogasanas and values and practice them in real life
2019-20	B.Sc	19PHU08	Optics				✓	To provide a knowledge about the optical instruments and nature of light

2019-20	B.Sc	19PHU10	Chemistry - I				✓	The aim is to provide the student to understand problems associated with hard water and treatment methods. To understand about basic concepts of organic chemistry, Metals and its extraction & basic aspects of chemical kinetics and photochemistry
2019-20	B.Sc	19SEU01	Information Security				✓	To learn about the basics of Information Security
2019-20	B.Sc	19NMU01A	Indian Women and Society				✓	To familiarize students with the specific cultural contexts of women in India
2019-20	B.Sc	19PHU13	Mathematical Physics				✓	The aim is to provide the student to acquire knowledge and apply it to various physical problems and to develop the problem solving ability
2019-20	B.Sc	19PHU15	Chemistry - II				✓	The aim is to provide the student to acquire knowledge about experimental techniques in chemistry & to apply chemistry in Batteries
2019-20	B.Sc	19PHU11	Physics - Practical II				✓	The aim is to provide the students acquire practical knowledge of physics experiments to handling of experiments and comprehend about different equipment used
2019-20	B.Sc	19PHU12	Allied Chemistry - Practical				✓	The aim is to provide the student to gain basic knowledge in Practical Chemistry & also to understand a basic concept in both qualitative & quantitative analysis

2019-20	B.Sc	19SEUPH2	Energy Resources			✓		The aim is to provide the student to acquire knowledge of Conventional and non- Conventional Energy Sources and apply it in day to day life & to understand the Importance of energy management
2019-20	B.Sc	19NMU02B	Consumer Rights			✓		This paper seeks to familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights
2019-20	B.Sc	19PHU16	Properties of Matter & Sound				✓	The aim is to identify the characteristics of matter in terms their properties and to know the basic principles of acoustics
2019-20	B.Sc	19PHU17	Solid State Physics				✓	The aim is to acquire knowledge about solids materials and their bonds. To motivate the students in order to apply the principles of band theory in their research studies
2019-20	B.Sc	19PHU18	Electronics & Communication			✓		To provide the students to acquire knowledge about various electronic instruments and motivate them to apply principles of electronics in their day to day life
2019-20	B.Sc	19PHU20	Industrial Training/Mini project				✓	To provide the students a deeper knowledge in Industrial Training and Mini Project - creating a opportunity for the students
2019-20	B.Sc	19PHU 23A	Digital Electronics and Microprocessor				✓	The aim is to provide basic knowledge of binary addition, combinations of logic circuits & microprocessor

2019-20	B.Sc	19PHU 23B	Soil Physics	✓				The aim is to provide the student to gain deeper knowledge and understanding of mechanical properties of soils and learn information about transfer processes in soils then know about the saturated and unsaturated soils
2019-20	B.Sc	19PHU 23C	Geo Physics			✓		The aim is to provide the student to gain deeper knowledge in geological Physics, earth structure & fossil animals
2019-20	B.Sc	19PHUOE1	Physics in day-to-day Life	✓				To demonstrate knowledge and understanding of the fundamental concepts in Physics
2019-20	B.Sc	19SEUPH3	Soft Skills			✓		To inculcate both personal and professional skills in the students in the areas of understanding of self and others, interpersonal skills, high performance teams, leadership potential, communication & presentation skills, techniques of problem solving, decision making, fostering creativity and innovation for personal and professional excellence, stress management, time management and conflict management and inculcation of human values
2019-20	B.Sc	19PEUPH1	Lasers (Self-Study)			✓		The aim is to provide the students to know the principles of laser light and also the applications of Lasers
2019-20	B.Sc	19PHU24	Quantum Mechanics and Relativity				✓	To develop the problem solving ability and to motivate the students to apply Schrödinger's equation or solving problems in wave mechanics, nuclear physics etc.,

2019-20	B.Sc	19PHU25	Atomic and Nuclear Physics				✓	The aim is to provide the student to acquire knowledge about atom, nucleus and their properties. To motivate the students in order to apply the principles of radio activity in their research studies
2019-20	B.Sc	19PHU26	Electricity and Magnetism				✓	To acquire knowledge in electricity and magnetism, problem solving ability & also understand the laws and equations
2019-20	B.Sc	19PHU27	Applied Instrumentation				✓	To provide a good foundation in measurements, knowledge of the behaviour of instruments and to inspire interest for the knowledge of concepts regarding measurements
2019-20	B.Sc	19PHU21	Electronics - Practical III		✓			The aim is to provide the students better practical knowledge of core electronic experiments, to know about different equipment and to learn to handle them
2019-20	B.Sc	19PHU22	Digital Electronics and Microprocessor - Practical IV				✓	The aim is to provide the students better practical knowledge in digital electronics and microprocessor programs and to learn the execution of microprocessor programs and construction of circuits using discrete components
2019-20	B.Sc	19 PHU 29A	Basic Concepts of C, C++	✓				The aim is to provide the student gain knowledge on of basics of C and C++
2019-20	B.Sc	19 PHU 29B	Introduction to Space Physics				✓	The aim is to provide the student gain knowledge on astronomical backgrounds, astronomical concepts and Understand cosmic rays
2019-20	B.Sc	19 PHU 29C	Smart Materials				✓	To gain deeper knowledge of smart materials, sensors, actuators &the advances in smart materials

2019-20	B.Sc	19SEUPH4	Programming in C, C++ - Practical	✓				The aim of the course is to develop the skill to gain knowledge in programming in C and C++
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2019-20	B.Sc	19SEUPH4	Programming in C, C++ - Practical	✓				The aim of the course is to develop the skill to gain knowledge in programming in C and C++
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M. Sreedhar

**Head,
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Courses focus on Global, National, Regional and Local Needs Academic Year: 2018-19

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				Local	Regional	National	Global	
2018-19	B.Sc	18PHU01	Mechanics				✓	To provide the student's deeper knowledge in motion of the particles & objects
2018-19	B.Sc	18PHU03	Mathematics – I				✓	To enable the students to learn about matrices and determinants, different types of equations, Laplace transforms and Fourier series
2018-19	B.Sc	18FCU01	Environmental studies			✓		To bring about an awareness of a variety of environmental concerns and to create a pro-environmental attitude and a behavioral pattern in society that is based on creating sustainable lifestyle
2018-19	B.Sc	18PHU05	Heat and Thermodynamics				✓	The student acquires the extensive fundamental knowledge about transfer of thermal energy by different analysis and to provide the basic knowledge of thermodynamics
2018-19	B.Sc	18PHU07	Mathematics – II				✓	To enable the students to learn and gain the knowledge and ideas about curvature, multiple integrals, Ordinary and Partial differential equations
2018-19	B.Sc	18PHU04	Physics – Practical I				✓	To provide the student's deeper knowledge in motion of the particles & objects
2018-19	B.Sc	18FCU02	Yoga and Value Education				✓	To enable the learners to acquire the knowledge on basic yogasanas and values and practice them in real life

2018-19	B.Sc	18PHU08	Optics				✓	To provide a knowledge about the optical instruments and nature of light
2018-19	B.Sc	18PHU10	Chemistry - I				✓	The aim is to provide the student to understand problems associated with hard water and treatment methods. To understand about basic concepts of organic chemistry, Metals and its extraction & basic aspects of chemical kinetics and photochemistry
2018-19	B.Sc	18SEU01	Information Security			✓		To learn about the basics of Information Security
2018-19	B.Sc	18NMU01A	Indian Women and Society			✓		To familiarize students with the specific cultural contexts of women in India
2018-19	B.Sc	18PHU13	Mathematical Physics				✓	The aim is to provide the student to acquire knowledge and apply it to various physical problems and to develop the problem solving ability
2018-19	B.Sc	18PHU15	Chemistry - II				✓	The aim is to provide the student to acquire knowledge about experimental techniques in chemistry & to apply chemistry in Batteries
2018-19	B.Sc	18PHU11	Physics - Practical II				✓	The aim is to provide the students acquire practical knowledge of physics experiments to handling of experiments and comprehend about different equipment used
2018-19	B.Sc	18PHU12	Allied Chemistry - Practical				✓	The aim is to provide the student to gain basic knowledge in Practical Chemistry & also to understand a basic concept in both qualitative & quantitative analysis

2018-19	B.Sc	18SEUPH2	Energy Resources			✓		The aim is to provide the student to acquire knowledge of Conventional and non- Conventional Energy Sources and apply it in day to day life & to understand the Importance of energy management
2018-19	B.Sc	18NMU02B	Consumer Rights			✓		This paper seeks to familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights
2018-19	B.Sc	18PHU16	Properties of Matter & Sound				✓	The aim is to identify the characteristics of matter in terms their properties and to know the basic principles of acoustics
2018-19	B.Sc	18PHU17	Solid State Physics				✓	The aim is to acquire knowledge about solids materials and their bonds. To motivate the students in order to apply the principles of band theory in their research studies
2018-19	B.Sc	18PHU18	Electronics & Communication			✓		To provide the students to acquire knowledge about various electronic instruments and motivate them to apply principles of electronics in their day to day life
2018-19	B.Sc	18PHU20	Industrial Training/Mini project				✓	To provide the students a deeper knowledge in Industrial Training and Mini Project – creating a opportunity for the students
2018-19	B.Sc	18PHU 23A	Digital Electronics and Microprocessor				✓	The aim is to provide basic knowledge of binary addition, combinations of logic circuits & microprocessor

2018-19	B.Sc	18PHU 23B	Soil Physics	✓				The aim is to provide the student to gain deeper knowledge and understanding of mechanical properties of soils and learn information about transfer processes in soils then know about the saturated and unsaturated soils
2018-19	B.Sc	18PHU 23C	Geo Physics			✓		The aim is to provide the student to gain deeper knowledge in geological Physics, earth structure & fossil animals
2018-19	B.Sc	18PHUOE1	Physics in day-to-day Life	✓				To demonstrate knowledge and understanding of the fundamental concepts in Physics
2018-19	B.Sc	18SEUPH3	Soft Skills			✓		To inculcate both personal and professional skills in the students in the areas of understanding of self and others, interpersonal skills, high performance teams, leadership potential, communication & presentation skills, techniques of problem solving, decision making, fostering creativity and innovation for personal and professional excellence, stress management, time management and conflict management and inculcation of human values
2018-19	B.Sc	18PEUPH1	Lasers (Self-Study)			✓		The aim is to provide the students to know the principles of laser light and also the applications of Lasers
2018-19	B.Sc	89PHU24	Quantum Mechanics and Relativity				✓	To develop the problem solving ability and to motivate the students to apply Schrödinger's equation or solving problems in wave mechanics, nuclear physics etc.,

2018-19	B.Sc	18PHU25	Atomic and Nuclear Physics				✓	The aim is to provide the student to acquire knowledge about atom, nucleus and their properties. To motivate the students in order to apply the principles of radio activity in their research studies
2018-19	B.Sc	18PHU26	Electricity and Magnetism				✓	To acquire knowledge in electricity and magnetism, problem solving ability & also understand the laws and equations
2018-19	B.Sc	18PHU27	Applied Instrumentation				✓	To provide a good foundation in measurements, knowledge of the behaviour of instruments and to inspire interest for the knowledge of concepts regarding measurements
2018-19	B.Sc	18PHU21	Electronics - Practical III		✓			The aim is to provide the students better practical knowledge of core electronic experiments, to know about different equipment and to learn to handle them
2018-19	B.Sc	18PHU22	Digital Electronics and Microprocessor - Practical IV				✓	The aim is to provide the students better practical knowledge in digital electronics and microprocessor programs and to learn the execution of microprocessor programs and construction of circuits using discrete components
2018-19	B.Sc	18PHU 29A	Basic Concepts of C, C++	✓				The aim is to provide the student gain knowledge on of basics of C and C++
2018-19	B.Sc	18PHU 29B	Introduction to Space Physics				✓	The aim is to provide the student gain knowledge on astronomical backgrounds, astronomical concepts and Understand cosmic rays
2018-19	B.Sc	18PHU 29C	Smart Materials				✓	To gain deeper knowledge of smart materials, sensors, actuators & the advances in smart materials

2018-19	B.Sc	18SEUPH4	Programming in C, C++ - Practical	✓				The aim of the course is to develop the skill to gain knowledge in programming in C and C++
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2018-19	B.Sc	18SEUPH4	Programming in C, C++ - Practical	✓				The aim of the course is to develop the skill to gain knowledge in programming in C and C++
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Courses focus on Global, National, Regional and Local Needs Academic Year: 2017-18

Year of Syllabus Revision	Program me	Code	Title of the Course	Need				Description
				Local	Regional	National	Global	
2017-18	B.Sc	17PHU01	Mechanics, Properties of Matter and Sound				✓	To provide the student to acquire basic knowledge of mechanics, properties of matter and gravitation and learn motion of bodies and sound waves
2017-18	B.Sc	17PHU03	Mathematics – I				✓	To enable the students to learn about matrices and determinants, different types of equations, Laplace transforms and Fourier series
2017-18	B.Sc	17FCU01	Environmental studies			✓		To bring about an awareness of a variety of environmental concerns and to create a pro-environmental attitude and a behavioral pattern in society that is based on creating sustainable lifestyle
2017-18	B.Sc	17PHU04	Heat and Thermodynamics				✓	To provide the student to acquire basic knowledge of heat, work and energy and know how to apply the kinetic theory of gases
2017-18	B.Sc	17PHU05	Mathematics – II				✓	To enable the students to learn and gain the knowledge and ideas about curvature, multiple integrals, Ordinary and Partial differential equations
2017-18	B.Sc	17PHU02	Physics – Practical I				✓	To provide the student's deeper knowledge in motion of the particles & objects
2017-18	B.Sc	17FCU02	Yoga and Value Education				✓	To enable the learners to acquire the knowledge on basic yogasanas and values and practice them in real life

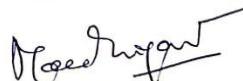
2017-18	B.Sc	17PHU06	Optics				✓	To provide a knowledge about the optical instruments and nature of light
2017-18	B.Sc	17PHU09	Chemistry - I				✓	The aim is to provide the student to understand problems associated with hard water and treatment methods. To understand about basic concepts of organic chemistry, metals and its extraction & basic aspects of chemical kinetics and photochemistry
2017-18	B.Sc	17SEU01	Information Security			✓		To learn about the basics of Information Security
2017-18	B.Sc	17NMU01A	Indian Women and Society			✓		To familiarize students with the specific cultural contexts of women in India
2017-18	B.Sc	17PHU11	Mathematical Physics				✓	The aim is to provide the student to acquire knowledge and apply it to various physical problems and to develop the problem solving ability
2017-18	B.Sc	17PHU13	Chemistry - II				✓	The aim is to provide the student to acquire knowledge about experimental techniques in chemistry & to apply chemistry in Batteries
2017-18	B.Sc	17PHU07	Physics - Practical II				✓	The aim is to provide the students acquire practical knowledge of physics experiments to handling of experiments and comprehend about different equipment used
2017-18	B.Sc	17PHU10	Allied Chemistry - Practical				✓	The aim is to provide the student to gain basic knowledge in Practical Chemistry & also to understand a basic concept in both qualitative & quantitative analysis

2017-18	B.Sc	17SEUPH2	Energy Resources			✓		The aim is to provide the student to acquire knowledge of Conventional and non- Conventional Energy Sources and apply it in day to day life & to understand the Importance of energy management
2017-18	B.Sc	17NMU02B	Consumer Rights			✓		This paper seeks to familiarize the students with their rights and responsibilities as a consumer, the social framework of consumer rights and legal framework of protecting consumer rights
2017-18	B.Sc	17PHU14	Digital Electronics and Microprocessor				✓	The aim is to provide basic knowledge of binary addition, combinations of logic circuits and microprocessor
2017-18	B.Sc	17PHU15	Solid State Physics				✓	The aim is to provide the student to acquire knowledge about solids and their bonds.To gain an idea about different alloys in semiconducting and conducting materials and motivate the students in order to apply the principles of band theory in their research studies
2017-18	B.Sc	17PHU16	Electricity and Magnetism			✓		To acquire knowledge in electricity and magnetism, problem solving ability and also understand the laws and equations
2017-18	B.Sc	17PHU18	Industrial Training				✓	To provide the students a deeper knowledge in Industrial Training and creating a opportunity for the students
2017-18	B.Sc	17PHU21a	Applied Instrumentation				✓	To provide a knowledge in measuring various properties by using instruments through learning the principles behind it

2017-18	B.Sc	17PHU21b	Soil Physics	✓				The aim is to provide the student to gain deeper knowledge and understanding of mechanical properties of soils and learn information about transfer processes in soils then know about the saturated and unsaturated soils
2017-18	B.Sc	17PHU21c	Geo Physics			✓		The aim is to provide the student to gain deeper knowledge in geological Physics, earth structure and fossil animals
2017-18	B.Sc	17PHUC01	Physics in day-to-day Life	✓				To demonstrate knowledge and understanding of the fundamental concepts in Physics
2017-18	B.Sc	17SEUPH3	Soft Skills			✓		The aim is to provide the student to know about interpersonal skills, team work & also self motivation
2017-18	B.Sc	17PEUPH1	Lasers (Self-Study)			✓		The aim is to provide the students to know the principles of laser light and also the applications of Lasers
2017-18	B.Sc	17PHU22	Quantum Mechanics and Relativity				✓	To provide the student to develop the problem solving ability and to motivate the students to apply Schrödinger's equation or solving problems in wave mechanics, nuclear physics etc.,
2017-18	B.Sc	17PHU23	Atomic and Nuclear Physics				✓	The aim is to provide the student to acquire knowledge about atom, nucleus and their properties. To motivate the students in order to apply the principles of radio activity in their Research studies

2017-18	B.Sc	17PHU24	Electronics & Communication				✓	To provide the students to acquire knowledge about various electronic instruments and motivate them to apply principles of electronics in their day to day life
2017-18	B.Sc	17PHU25	Fundamentals of Spectroscopy				✓	To demonstrate knowledge and understanding of the fundamental concepts in Spectroscopy
2017-18	B.Sc	17PHU19	Electronics - Practical III		✓			The aim is to provide the students better practical knowledge of core electronic experiments, to know about different equipment and to learn to handle them
2017-18	B.Sc	17PHU20	Digital Electronics and Microprocessor - Practical IV				✓	The aim is to provide the students better practical knowledge in digital electronics and microprocessor programs and to learn the execution of microprocessor programs and construction of circuits using discrete components
2017-18	B.Sc	17PHU27a	Basic Concepts of C, C++	✓				The aim is to provide the student gain knowledge on of basics of C AND C ⁺⁺
2017-18	B.Sc	17PHU27b	Introduction to Space Physics				✓	The aim is to provide the student gain knowledge on astronomical backgrounds, astronomical concepts and Understand cosmic rays
2017-18	B.Sc	17PHU27c	Smart Materials				✓	To gain deeper knowledge of smart materials, sensors, actuators &the advances in smart materials
2017-18	B.Sc	17SEUPH4	Programming in C, C++	✓				The aim of the course is to develop the skill to gain knowledge in programming in C and C ⁺⁺

2017-18	B.Sc	17PHU24	Electronics & Communication				✓	To provide the students to acquire knowledge about various electronic instruments and motivate them to apply principles of electronics in their day to day life
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