

| Month wise Academic Plan | | | |
|---|--------|--------------------------|--|
| P-XVI - Structure and Properties of Poly II | | | |
| Month | Class | No. of Lectures required | Syllabus |
| May 21 | VI Sem | | <u>Rheology and Mechanical Properties</u> : Concept of rheology, viscosity flow, Nonnewtonian fluids, Hooke eq ⁿ , Newton's eq ⁿ , Maxwell eq ⁿ , Voigt eq ⁿ Berge's Model for polymer deformation. Study, Relaxation & Retardation. |
| May 2021 | VI Sem | | <u>Plastic Processing</u> : Introduction factors affecting to the Processing Mixing operation, Extruders |

| Month wise Academic Plan | | | |
|---|--------|--------------------------|--|
| P-XVI Structure and properties of poly-II | | | |
| Month | Class | No. of Lectures required | Syllabus |
| | | | process, compression Injection and transfer Moulding, Calendering |
| June 2021 | VI Sem | | <u>Fibre Technology</u> : Natural and synthetic fibres, Properties, tenacity, moisture content, moisture regain, Crimp, Electrical and mechanical Crease, fibre stability, Process of fibre. Polyamide, Nylon and PET. |



| Month wise Academic Plan | | | |
|--------------------------|--------------------------|--------------------------|--|
| Month | Class | No. of Lectures required | Syllabus |
| June 2021 | BSc-I Sem-II chems | | Gas Laws, Deviation from ideal behavior, vander-waals eq ⁿ . Critical phenomenon. PV isotherms <u>Chemical</u> <u>Kinetics &</u> <u>Catalysis</u> :- Bisphenol A epoxide Raw materials Polymerization, prop. & applications PET :- Raw mat. Polymerization, prop. & application |
| | BSc-II Poly chem | | |

| Month wise Academic Plan | | | |
|--------------------------|------------------------|--------------------------|---|
| Month | Class | No. of Lectures required | Syllabus |
| July 2021 | BSc-I chem | | Liquid state :- Inter molecular forces, Liquid crystals Solid state :- Types of solids. Laws of crystallography, sym. ele ; Bragg equation. Colloidal state :- Def., classification, Sols, emulsions, gels. Synthetic polymer :- Phenolic resins, UF resins prop., applications. |
| | BSc-II Poly chem | | |



| Month wise Academic Plan | | | |
|---|-------|--------------------------|---|
| P- XIV Advance poly. Chemistry - I | | | |
| Month | Class | No. of Lectures required | Syllabus |
| Nov-Dec 2020 | V Sem | | <p>III > <u>Co-ordination Polymers</u> -</p> <p>Introduction Survey of Catalyst Ziegler Natta Catalyst - Component & their interaction, polymerization reactions, Mechanism of Ziegler Natta, Polymerization Catalyst Condensation and step growth polymerization</p> |

| Month wise Academic Plan | | | |
|--------------------------|---------|--------------------------|---|
| P-V Inorganic Chemistry | | | |
| Month | Class | No. of Lectures required | Syllabus |
| May 2021 | II Sem | | <p><u>Chemistry of Nobel Gases</u> :-</p> <p>Introduction Properties, Discovery of Nobel Gases, Chemistry of Xenon, Structure & bonding XeF_2, XeF_4, XeF_6, Applications of Nobel Gases.</p> |
| May 2021 | II Sem. | | <p><u>Nuclear Chemistry</u></p> <p>Introduction, Definitions, atom No, Mass No, Protopes & Isobars, Mass defect, B.E., Packing fraction N/Z ratio, Radioactivity, Properties of α, β, & γ particles Application Carbon dating Treatment in Cancer</p> |



Month wise Academic Plan
P-1 Inorganic Chem.

| Month | Class | No. of Lectures required | Syllabus |
|-----------|--------|--------------------------|---|
| Nov. 2020 | I Sem. | | <p><u>'S' Block Elements</u> Comparative study diagonal relationship Salient features of hydrides, solvation and Complexation tendency including their function in biosystem.</p> |
| Dec 2020 | I Sem. | | <p><u>'P' Block Elements</u> Comparative Study Diagonal relationship of Group 13 to 17 Elements Compounds like hydride, Oxides of group 13-16 Inter halogen Compounds & its types.</p> |

Month wise Academic Plan
P-~~XIV~~ Adv. Polymer Chemistry - I.

| Month | Class | No. of Lectures required | Syllabus |
|-----------|--------|--------------------------|---|
| Sept-2020 | VI sem | | <p>Methods of Preparation, properties, and applications of a) Polystyrene b) Fluoropolymers c) Poly Acetals.</p> |
| Oct 2020 | VI Sem | | <p><u>II) Copolymerization</u> Introduction, Classification, Copolymerization behaviour ratios, free radical co-polymerization Effect of structure on reactivity of free radical co-polymerization, preparation of Block and Graft Co-polymers Technical significance of Co-polymerization.</p> |



Month wise Academic Plan

P-I Inorganic Chem.

| Month | Class | No. of Lectures required | Syllabus |
|-----------------------------------|--------|--------------------------|---|
| July 2020 Sept 2020 | I Sem | | <u>Atomic Structure</u> Atomic Orbitals Quantum No. Heisenberg Uncertainty Principle Shapes of s, p, d Orbitals, Aufbau's Principle, Pauli's exclusion principle, Hund's rule of multiplicity, Electronic configuration of Elements Bohr's Atomic Model, |
| Oct 2020 | I Sem. | | <u>Periodic Properties</u> Atomic and ionic radii, Ionisation Potential (Energy) Electron Affinity Trends in periodic Table, Application in predicting Explaining Chemical Behavior |



Month wise Academic Plan

P-V - Inorganic Chemistry

| Month | Class | No. of Lectures required | Syllabus |
|-----------|-------|--------------------------|---|
| June 2021 | | | <p><u>Theory of Volumetric Analysis</u> Introduction of Types of Volumetric analysis Titration, Types of titrations, Apparatus required for volumetric titration, Stand of pipette, burette, Acid base, Redox, precipitation Complexometric and Redometric titrations External & Internal indicators.</p> |

Month wise Academic Plan

P-V Inorganic Chemistry

| Month | Class | No. of Lectures required | Syllabus |
|-----------|-------|--------------------------|---|
| June 2021 | | | <p><u>Chemical Bonding</u> VBT, VSPER Types of Bond Ionic, Covalent & Coordinate bond Types of hybridizations, MOT.</p> |



| Month wise Academic Plan | | | |
|--------------------------|------------------------|--------------------------|---|
| Month | Class | No. of Lectures required | Syllabus |
| March 2021 | BSc-I Org. Chem | | Stereo chemistry Isomerism, Optical isomerism D/L & R/S conf. Geometrical isomers. |
| | BSc-II Poly Chem | | Polycarbonates Raw materials, polymerization, prop. & applications |

| Month wise Academic Plan | | | |
|--------------------------|-----------------------------------|--------------------------|--|
| Month | Class | No. of Lectures required | Syllabus |
| April 2021 | BSc-I Phy. Chem Sem-II | | Mathematical Concepts. Logarithm, Curve sketching, graphs. |
| | BSc-II Poly Chem. Sem-II | | Polymethacrylate: Introduction, Monomer prep. Polymerization reaction. |
| May 2021 | BSc-II Poly chem | | Bulk & suspension polymerization. prop. & applications. |
| | BSc-I Chem | | Differential eq. Maxima, minima. partial differentiation. <u>Gaseous state</u> :- Kinetic gas eq Gas laws |



Month-wise Academic Plan

P- XVI - Structure and properties of poly - II

| Month | Class | No. of Lectures required | Syllabus |
|-----------|---------|--------------------------|---|
| July 2021 | VI sem. | | <u>Polymers properties and testing.</u> Introduction Mechanical, Electrical & Optical properties of polymers. |



| Month wise Academic Plan | | | |
|--------------------------|--------------------|--------------------------|--|
| Month | Class | No. of Lectures required | Syllabus |
| Nov. 2020 | BSc II Polychem | | Polyamides: Raw materials Nylon-6 & 66 Preparation of Raw materials Polymerization reaction. |
| Dec. 2020 | BSc II Polychem | | Polymerization reaction. properties & application. |
| | BSc I Chem. | | Mechanism of org. reaction. Homolytic & Heterolytic bond breaking. Types of reagents. |

| Month wise Academic Plan | | | |
|--------------------------|--------------------|--------------------------|--|
| Month | Class | No. of Lectures required | Syllabus |
| Dec-20 2020 | BSc-I Chem | | Electrophiles & Nucleophiles. Types of organic reactions. |
| Jan. 2021 | BSc-I Chem | | Mech. of org. reactions :- Types of org. reactions, Energy consideration Reactive intermediates Arenes & Aromaticity -city :- benzene derivatives - Nomenclature Aromaticity - Huckel rule |
| Dec. 2020 | BSc-II Polychem | | Polyvinyl chloride Introduction, preparation of vinyl chloride |



Month wise Academic Plan

| Month | Class | No. of Lectures required | Syllabus |
|-----------|------------------|--------------------------|---|
| Sept 2019 | BSc-I Chem | | stereochemistry :- Geometric isomerism Alkanes :- methods of formation, properties & reactions. Alkenes :- Nomenclature, methods of formation, Saytzeff's, Hoffmann rule Reactions, Markovnikoff's rule |
| | BSc-II Poly Chem | | Polyurethanes, Raw materials, Polymerization, PU foam, elastomers |

Month wise Academic Plan

| Month | Class | No. of Lectures required | Syllabus |
|------------|-------------------|--------------------------|---|
| Sept. 2019 | BSc-II Poly Chem | | PU fibres, properties & applications |
| | BSc-II Poly Chem. | | Polycarbonates, Raw materials, polymerization, Properties & applications. |
| Oct. 2019 | BSc-I Chem. | | Arenes & Aromaticity, Nomenclature, Huckel rule, ArSE |
| | | | Alkyl & aryl halides, Polyhalogen comp. methods of form of Ar-X, Reactions. |



| Month wise Academic Plan | | | |
|--------------------------|---------|--------------------------|---|
| Month | Class | No. of Lectures required | Syllabus - I |
| | VI Sem. | | <u>Rheology and Mechanical properties</u> : Concept of rheology, Viscosity flow, Non Newtonian fluids, Hooke's eq ⁿ , Newton's eq ⁿ , Maxwell's eq ⁿ , Voigt eq ⁿ , Burger Model for polymer deformation study, Relaxation and Retardation. |
| | VI Sem. | | <u>Plastic Processing</u> Introduction, factors affecting to the processing Mixing operation, Extruders and Extrusion Process, Compression, Injection and transfer Moulding Calendering. |

| Month wise Academic Plan | | | |
|--------------------------|---------|--------------------------|--|
| Month | Class | No. of Lectures required | Syllabus |
| | VI Sem. | | <u>Fibre Technology</u> Natural and Synthetic fibres, Properties, tenacity, moisture content, moisture regain, Crimp, Electrical and mechanical Crease, Fibre Stability, Processing of fibre Polyamide Nylon and PET. |
| | VI Sem. | | <u>Polymer Properties and testing</u> : Introduction, Mechanical, Electrical and Optical properties of Polymers. |



| Month wise Academic Plan | | | |
|----------------------------|-------|--------------------------|--|
| P-I - Inorganic Chemistry. | | | |
| Month | Class | No. of Lectures required | Syllabus |
| Sept-2013 | I Sem | | S' Block Elements Comparative Study diagonal relationship salient features of hydrides, solvation and complexation tendencies including their functions in biological systems |
| | I Sem | | P' Block Elements Comparative Study Diagonal relationship Stip. of group 13-17 Elements, Compounds like hydrides, oxides of group 13-16 Inter halogen Compounds & its types. |

| Month wise Academic Plan | | | |
|----------------------------------|--------|--------------------------|--|
| P-XIV Adv. Polymer Chemistry - I | | | |
| Month | Class | No. of Lectures required | Syllabus |
| July 2013 | V Sem. | 20 | Methods of preparation, properties and applications of a) Styrene Styrene b) Polyacetal. c) Fluoro polymer |
| Aug 2013 | | | |
| Sept. 2013 | V Sem. | 12 | ii) <u>Co-ordination Polymers</u> , Introduction, & Survey of Catalyst- Ziegler Natta Catalyst component & their interactions, polymerization reactions Mechanism of Ziegler Natta Polymerization Catalyst-Condensation & Step-growth polymerization. |



| Month wise Academic Plan | | | |
|--|--------|--------------------------|--|
| Paper - XIV Advance poly Chemistry - I | | | |
| Month | Class | No. of Lectures required | Syllabus |
| Jan 2021 | V sem. | | <u>Co-ordination Polymers:</u> Introduction Survey of Catalyst Ziegler Natta Catalyst component & their interaction, polymerization reactions Mechanism of Ziegler Natta, Polymerization Catalyst Condensation and Step growth Polymerization. |

| Month wise Academic Plan | | | |
|--------------------------|---------|--------------------------|--|
| P-V Inorganic Chemistry. | | | |
| Month | Class | No. of Lectures required | Syllabus |
| | II sem. | | <u>Chemistry of Nobel Gases:</u> Introduction, Properties, Discovery of Nobel Gases. Chemistry of Xenon Structure & bonding in XeF_2 , XeF_4 , XeF_6 , Applications of Nobel Gases. |
| | II Sem. | | <u>Nuclear Chemistry</u> Introduction, Definitions, Atom No., Mass No., Isotopes and Tracers. Mass defect, B.E. Packing fraction. N/Z Ratio, Radioactivity, Properties of α , β , and γ particles Applications, - Carbon dating, Treatment - In cases of radia- |



Month wise Academic Plan

P-XIV - Adv. Polymer Chemistry - I

| Month | Class | No. of Lectures required | Syllabus |
|----------|------------------------------|--------------------------|---|
| Oct 2019 | B.Sc. Polymer I. Y. V Sem | 12 | <p>III > <u>Co-polymerization.</u></p> <p>Introduction Classification Co-polymerization behaviour reactivity ratio free radical Co-polymerization, Effect of structure on reactivity of free radical co-polymerization Preparation of Block & graft Co-polymers Technical significance of Co-polymerization.</p> |

Month wise Academic Plan

P-V Inorganic Chemistry.

| Month | Class | No. of Lectures required | Syllabus |
|---------------------------------|---------------|--------------------------|---|
| Nov. 2019 | B.Sc. II Sem. | 06. | <p><u>Chemistry of Nobel Gases</u></p> <p>Introduction. Properties, Discovery of Nobel Gases Chemistry of Xenon. Structure and bonding XeF_2 XeF_4, XeF_6 Application of Nobel Gases.</p> |
| Nov 2019 Dec 2019 | B.Sc. II Sem. | 08 | <p><u>Nuclear Chem</u></p> <p>Introduction. Refinement, atom. No., Mass No. Protopes and Trobars. Mass defect, B.E., Packing fraction. N/Z ratio.</p> |



Month wise Academic Plan

Paper - I

Inorganic Chemistry.

| Month | Class | No. of Lectures required | Syllabus |
|-----------------|--------|--------------------------|--|
| Nov. 2021 | I Sem | | <p><u>Atomic Structure</u> Atomic Orbitals, Heisenberg Uncertainty Principle. Quantum No. Shapes of s, p, d orbitals Aufbau's principle Pauli's exclusion theory, Hund's rule of multiplicity, Electronic Configuration of elements Bohr's Atomic model.</p> |
| Nov. - Dec 2021 | I sem. | | <p><u>Periodic Properties</u> Atomic & ionic radii, Ionization Potential, (Energy) Electron Affinity Trends in Periodic Table, - Application in Prediction, Explaining chemical behaviours Electronegativity</p> |



| Month wise Academic Plan | | | |
|--|---------|--------------------------|---|
| P- XVI Structure & properties of Polymeris-II | | | |
| Month | Class | No. of Lectures required | Syllabus |
| Nov 2019 Dec 2019 | VII Sem | 14. | <u>Rheology and mechanical properties</u> Concept of rheology vs - cons flow, non newtonian fluids Hooke eq ⁿ , Newton eq ⁿ , Maxwell model, Voigt Model, Burger model. for polymer deformation study Relaxation and Retardation. |
| Dec 2019 | VII Sem | 12 | <u>Plastic Processing</u> -ng - Introduction factors affecting to the |

| Month wise Academic Plan | | | |
|--|---------|--------------------------|--|
| P- XVI - structure and properties of polymer II | | | |
| Month | Class | No. of Lectures required | Syllabus |
| | | | Processing Mixing operation, extruders and extrusion process, Compression, Injection and transfer. Moulding, calendaring. |
| Jan 2020 | VII Sem | 12 | <u>Fibre Technology</u> Natural and Synthetic fibre Properties tenacity, moisture content, moisture regain, crimp, Electrical & mechanical crease stability, Processing of fibre Polyamides, Nylon & PET. |



| Month wise Academic Plan | | | |
|------------------------------|---------------------|--------------------------|---|
| Month | Class | No. of Lectures required | Syllabus |
| Dec. 2020 | BSc-II Polychem | | Polymerization of vinyl chloride PVC - Solution polymerization Suspension polymerization Applications |
| Jan. 2020 2021 | | | |
| Feb. 2020 2021 | BSc-II Poly Chem | | Polyurethanes: Raw materials & their preparation Polymerization reactions PU-foam, elastomer, Fibers, PU properties & application, |

| Month wise Academic Plan | | | |
|-------------------------------|---------------|--------------------------|---|
| Month | Class | No. of Lectures required | Syllabus |
| Feb. 2020 2021 | BSc-I Chem | | ArSE reactions Alkanes:- Nomenclature, Kolbe's reaction, Corey-House, Decarboxylation, Physical properties of alkanes, Nitration, cat. oxidation, chlorination Bromination, Alkenes:- Nomenclature formation:- Dehydr ⁿ . Dehydrohalogen ⁿ . Saytzeff's & Hoffmann rule, Hydrogen ⁿ . Markownikoff's add ⁿ . Alkyl & Aryl halides. |
| March 2020 2021 | BSc-I Chem | | |



| Month wise Academic Plan 2019-20 | | | |
|----------------------------------|-------------------|--------------------------|--|
| Month | Class | No. of Lectures required | Syllabus |
| July 2019 | BSc-I Chem | | structure & Bonding Mechanism of organic reactions. |
| August 2019 | BSc-II Poly chem. | | Polyamides. Raw materials Nylon-6 & 66 Polymerization Prop & appl. |
| August 2019 | BSc-I Chem | | Mech. of org. reactions :- Types of reagents Electrophiles, Nucleophiles Types of reaction reactive inter. mediate. |

| Month wise Academic Plan | | | |
|--------------------------|------------------|--------------------------|---|
| Month | Class | No. of Lectures required | Syllabus |
| Aug-2019 | BSc-II Chem | | Arenes & Aromaticity Nomenclature Hinkel rule Ary E reactions. |
| | BSc-II Poly chem | | <u>Stereochemistry</u> :- Isomerism. Optical isomerism DL & R/S conf. PVC :- Introduction preparation of vinyl chloride Polymerization Applications. |




Month wise Academic Plan 2020-21

| Month | Class | No. of Lectures required | Syllabus |
|------------|--------------------|--------------------------|--|
| Sept. 2020 | BSc-I Chem. | | Structure and bonding - localized and delocalized chemical bond, Charge transfer Complex, resonance, hyperconjugation, inductive effect |
| Nov. 2020 | BSc-II Polychem | | Polyamides:- Introduction, History and nomenclature Raw material structure & bonding:- Inductive effect, H-bonding Conjugative effect, steric effect - |



Month wise Academic Plan

P-I Inorganic Chemistry.

| Month | Class | No. of Lectures required | Syllabus |
|----------------------------------|--------|--|---|
| July 2019 | I Sem |  | <u>Atomic Structure</u> Atomic Orbitals Quantum No. Heisenberg Uncertainty Principle Shapes of s, p, d, orbitals, Aufbau's Principle, Pauli's exclusion Principle Hund's rule of multiplicity, Electronic Configurations of Elements, Bohr's atomic model. |
| Aug. 2019 Sep. 2019 | I Sem. | | <u>Periodic Properties</u> Atomic and ionic radii, Ionization Energy, Electron affinity, Electronegativity, Trends in Periodic table, Application in predicting & explaining chemical behaviours. |

| Month wise Academic Plan | | | |
|--------------------------|--------|--------------------------|---|
| P-V Inorganic Chemistry. | | | |
| Month | Class | No. of Lectures required | Syllabus |
| | II sem | | <p>Theory of Volumetric analysis.</p> <p>Introduction.</p> <p>Types of volumetric analysis. Titration</p> <p>Types of Titrations</p> <p>Apparatus required for Volumetric titration, Standardisation of pipette & Burette, Acid base titration, Redox - " -</p> <p>Precipitation - " -</p> <p>Complexometric - " -</p> <p>Iodometric - " -</p> <p>External & Internal indicators.</p> |

| Month wise Academic Plan | | | |
|--------------------------|---------|--------------------------|--|
| P-V Inorganic Chemistry. | | | |
| Month | Class | No. of Lectures required | Syllabus |
| | II sem. | | <p>Chemical Bonding.</p> <p>VBT, VSEPR, Types of bond Ionic, Covalent Bond, and Co-ordinate bond. Types of hybridization</p> <p>MOT.</p> |



| Month wise Academic Plan | | | |
|--------------------------------|------------------------------------|--------------------------|---|
| P-XIV Adv. Polymer Chemistry-I | | | |
| Month | Class | No. of Lectures required | Syllabus |
| Oct 2019 | B.Sc. Polymer T. Y. I Sem | 12 | <p>III > <u>Co-polymerization.</u></p> <p>Introduction Classification Co-polymerization behaviour reactivity ratio free radical Co-polymerization, Effect of structure on reactivity of free radical co-polymerization Preparation of Block & graft Co-polymers Technical sig- nificance of Co-polymeriza- tion.</p> |

| Month wise Academic Plan | | | |
|--------------------------|------------------|--------------------------|--|
| P-V Inorganic Chemistry. | | | |
| Month | Class | No. of Lectures required | Syllabus |
| Nov. 2019 | B.Sc. II Sem. | 06 | <p>Chemistry of Nobel Gases</p> <p>Introduction. Properties, Discovery of Nobel Gases Chemistry of Xenon, Structure and bonding XeF_2 XeF_4, XeF_6 Application of Nobel Gases.</p> |
| Nov 2019 Dec 2019 | B.Sc. II Sem | 08 | <p>Nuclear Chem</p> <p>Introduction. Definition, atom. No., Mass No., Isotopes and Trobars. Mass defect, B.E., Packing fracti- on. N/Z ratio.</p> |



| Month wise Academic Plan | | | |
|---------------------------------|----------|--------------------------|--|
| Paper - I - Inorganic Chemistry | | | |
| Month | Class | No. of Lectures required | Syllabus |
| Dec 2021 | I - Sem | | <u>S-Block Elements</u> Comparative Study Diagonal relationship Salient feature of hydrides, Solvation and Complexation tendency including their function in biosystem. |
| Dec - 2021 & Jan 2022 | I - Sem. | | <u>P-Block Elements</u> Comparative Study Diagonal relationship of Group 13 to 17 Elements. Compounds like Hydride, Oxides of group 13 to 16 Inter halogen Compounds. |

| Month wise Academic Plan | | | |
|---|----------|--------------------------|--|
| Paper - XIV Advance polymer Chemistry - I | | | |
| Month | Class | No. of Lectures required | Syllabus |
| Oct 2021 | V sem. | | Methods of prepara- tion, properties, and applications of a) Polystyrene b) Fluoropolymers c) Poly Acetals. |
| Nov 2021 | V - Sem. | | <u>Copolymerization</u> Introduction, Classification, Co- polymerization behaviours, ratio. Free radical Co-po- lymerization Effect of structure on reactivity of free radical, Co- polymerization Preparation of Block & Graft Co-polymers, Tech- nical significance of Co-polymeriza- ti on. |



Month wise Academic Plan

P-V - Inorganic Chemistry.

| Month | Class | No. of Lectures required | Syllabus |
|-----------------------|---------|--------------------------|--|
| | | | Radioactivity Properties of α , β , γ , particles Applications Carbon dating in treatment of Cancer etc. |
| Dec. 2019 Jan 2020 | II Sem. | 10. | <u>Theory of Volumetric Analysis</u> Introduction. Types of volumetric analysis. titration, type of titrations. Apparatus required for volumetric titration Std of pipette burette, Acid base Redox, Precipitation. |



Month wise Academic Plan

P-V Inorganic Chemistry.

| Month | Class | No. of Lectures required | Syllabus |
|----------|--------|--------------------------|--|
| | | | Complexometric & Tolumetric titrations. External and Internal indicators. |
| Feb 2020 | II Sem | 16 | Chemical bonding - VBT VSEPR. Types of bond Ionic, Covalent & Coordinate bond. Types of hybridizations MOT. |

Pavan Shinde Chemistry 2021-22

घटक चाचणी - ३, कुला द्वितीय वर्ष

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
Govt. Arts & Science College, Aurangabad.

विषय साहित्य प्रक्रांतर आणि साहित्य - दि. 20/08/22
माध्यमांतर वेळ - ५० मि.
अवकाशपत्रिका - २ सत्र - नो. २०.

Month wise Academic Plan

Department of Home Science
Unit Test I
Class: B. A. (Home Science) Part-III (2020-21) Semester- V
Subject: FRM Time: 50 min Max. Marks: 20
Paper: Housing & Interior Decoration

प्रश्न १ ला खालील प्रश्नांची सविस्तर उत्तरे द्या - १३
१. साहित्य प्रक्रांतराची संकल्पना स्पष्ट करा.
२. संस्कृतीच्या मुद्रित माध्यमांचि घटती सविस्तर माहिती द्या.

प्रश्न २ सा टिपा लिहा (कोणतीही एक) ०५
(अ) माध्यमे व साहित्य प्रक्रांतराचा अर्थ
(ब) नवीन माध्यमे

| Month | Class | No. of Lectures required | Syllabus | Marks |
|-------|---------------------|--|--|----------------------|
| Feb | BSc - I | Q.1 Explain about the factors to be consider for the selection of site while constructing a house | Archives and aromaticity, Alkyl and aryl halides. Polycarbonates. | 10 marks |
| March | BSc - I BSc - II | | Mathematical Concepts. Polymethacrylate | |
| April | BSc - I | | Grassman state, Chemical kinetics & catalysis, Liquid state | |
| May | BSc - I BSc - II | Q.1 Explain in detail about selection and principal of furniture arrangement Q.2 Enlist things used for home furnishing and explain different types of curtains | Bis phenol A epoxide Polyethylene ter-phthalate. Solid state, colloidal state Synthetic polymer | 10 marks 10 marks |



Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD
CENTRE - (15) GOVT. COLLEGE OF ARTS & SCIENCE, AURANGABAD

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
Govt. Arts & Science College, Aurangabad.
Department of Home Science

| Sr.No | Students Name | Maximum Marks | Total | In words | Seat no |
|-------|------------------------------|---------------|-------|----------|----------|
| 1 | Kandhare Geeta Raju | 10 | 10 | 20 | BSc - II |
| 2 | Shimre Pratiksha Chandarsing | 08 | 08 | 16 | Thirteen |
| 3 | Shaikh Samreen | 07 | 06 | 13 | Twenty |

Month wise Academic Plan

P- ~~XVI~~ - structure and properties of polymer-I

| Month | Class | No. of Lectures required | Syllabus |
|----------|--------|-----------------------------|--|
| Feb 2020 | XI sem | 08 | <u>Polymer Properties</u> <u>& testing</u> Introduction Mechanical, Electrical & Optical properties of polymers. |



Chemistry
Pavan Bhende 2021-22

| Month wise Academic Plan | | | |
|--------------------------|--------|--------------------------|--|
| Month | Class | No. of Lectures required | Syllabus |
| Nov. | BSc-I | | Structure & Bonding. Bridge course Introduction. mechanism of org. reactions |
| Oct / Nov. | BSc-II | | Chemistry of Polymer material-1 Polyamides. |
| Dec. | BSc-I | | Mechanism of org. reactions. stereochemistry Polyamides / |
| | BSc-II | | poly vinyl chloride. |
| Jan. | BSc-I | | stereochemistry of organic compounds Alkanes, alkenes. |
| | BSc-II | | poly vinyl chloride, polyurethanes, polycarbonates. |

