

Programme Specific Outcomes (PSO) and Course Outcomes (CO) at Rajah Serfoji Government College, Thanjavur-613005, Tamilnadu

DEPARTMENT OF CHEMISTRY

B.Sc., - CHEMISTRY

PSO: Upon completion of the B.Sc. Degree programmes, students will be able to-

- ❖ *Understand all the traditional branches of Physical, Inorganic, organic and Analytical chemistry.*
- ❖ *The experimental work will be continues throughout the session to develop the theoretical knowledge and practical as well.*
- ❖ *Graduates from this course will be better prepared to understand the new environment friendly systems and can understand the processes that the chemical industry is adopting.*
- ❖ *The course has been designed to have insight in almost all the aspects of chemistry and to build a solid foundation in the subject to choose a career in industry or academics or research*
- ❖ *The employment areas for the B. Sc. Chemistry graduates include pharmaceutical industries, chemical manufactures, cement and leather factories, plastic industries, agro industries etc*
- ❖ *There are various higher study options for candidates who have completed their PG in Chemistry.*
- ❖ *Understand good laboratory practices and safety.*
- ❖ *Make aware and handle the sophisticated instruments/equipments.*

Course code/Paper/ Semester	Title	Course Outcomes
S1CH1 CC I Sem I	General Chemistry – I	<ul style="list-style-type: none"> ❖ Understand the structure of atoms and will apply the periodic laws to predict chemical and Physical properties of the elements. ❖ Comprehend the nature of compounds, and chemical equations and apply them in stoichiometric calculations.
S2ACH1 First Allied Course – I Sem I	Allied Chemistry – I	<ul style="list-style-type: none"> ❖ To apply the principles of kinetics in calculating reaction rates, activation energies, and order of reactions. ❖ know about the importance of phase rule and its applications and energetic. ❖ understand the utility of organic reactions and

		<p>appreciate the structure-activity relationship of certain drugs.</p> <ul style="list-style-type: none"> ❖ Determine rate law of chemical change based on experimental data. ❖ Be talented to classify the reaction order for a chemical change. ❖ Understand the concept order of kinetics and when they apply Studies to classify catalysts
S2CH2 CC2 Sem II	General Chemistry – II	<ul style="list-style-type: none"> ❖ Understand the nature and variety of forms of matter and list the physical properties ❖ Understand the structure of atoms ,predict chemical and physical properties of the elements
S2ACH2 Second Allied Course – II Sem II	Allied Chemistry – II	<ul style="list-style-type: none"> ❖ Exhibit good work ethic and study skills as evidenced by their record of showing up to class on time and having all objectives and key terms identified within the chapter. ❖ Use the vocabulary of chemistry, both language and mathematical, to explain concepts ❖ Utilize safe and course-appropriate laboratory techniques. ❖ Produce writing that shows original thinking, depth of analysis, and comprehension of basic course content. ❖ Identify examples of how chemistry affects the quality of their lives.
S2ACHP Allied chemistry practicals Sem II	Allied Chemistry Practicals	<ul style="list-style-type: none"> ❖ To understand the principle of volumetric analysis such as acidimetry, alkalimetry, permanganometry, and iodometry. ❖ Prepare to identify the organic compounds
S2CHP1 CC3 Sem II	Volumetric Analysis Practical – I	<ul style="list-style-type: none"> ❖ The principle of volumetric analysis such as acidimetry, alkalimetry, permanganometry, dichrometry, iodo and iodimetry, argentometry and complexometry.
S3CH3 CC4 Sem III	General Chemistry – III	<ul style="list-style-type: none"> ❖ Understand and apply the principles of gas behavior, properties of aqueous solutions. ❖ Apply the principles of chemical equilibrium
S3SB1E Skill Based Elective I Sem III	Food And Nutrition	<ul style="list-style-type: none"> ❖ Importance of Balanced Diet and its components. ❖ Identify and control adulterants in various foods and evaluate food quality ❖ Acquire the knowledge on the basic concepts of biological knowledge of food and human welfare.

S3ACH1 First Allied Course – I Sem III	Allied Chemistry – II	<ul style="list-style-type: none"> ❖ Exhibit good work ethic and study skills as evidenced by their record of showing up to class on time and having all objectives and key terms identified within the chapter. ❖ Use the vocabulary of chemistry, both language and mathematical, to explain concepts ❖ Utilize safe and course-appropriate laboratory techniques. ❖ Produce writing that shows original thinking, depth of analysis, and comprehension of basic course content. ❖ Identify examples of how chemistry affects the quality of their lives.
S4CH4 CC5 Sem IV	General Chemistry – IV	<ul style="list-style-type: none"> ❖ Write the name and formula for any ionic or binary covalent compound, as well as using these to complete a balance chemical equation. ❖ Use stoichiometric data to make calculations with balanced equations. ❖ Apply the principles of thermo chemistry to solve problems involving heat transfer.
S4CHP2 CC6 Sem IV	Inorganic Qualitative Analysis Practical - II	<ul style="list-style-type: none"> ❖ Understand Qualitative analysis of inorganic salt mixtures.
S4SB2D Skill Based Elective II Sem IV	Dyeing Techniques And Water Treatment	<ul style="list-style-type: none"> ❖ Understand the techniques for developing different products. Exploring and applying the old and new ideas of designing in different sector.
S4ACH2 Second Allied Course – II Sem IV	Allied Chemistry – II	<ul style="list-style-type: none"> ❖ Exhibit good work ethic and study skills as evidenced by their record of showing up to class on time and having all objectives and key terms identified within the chapter. ❖ Use the vocabulary of chemistry, both language and mathematical, to explain concepts ❖ Utilize safe and course-appropriate laboratory techniques. ❖ Produce writing that shows original thinking, depth of analysis, and comprehension of basic course content.
S4ACHP Allied chemistry practicals Sem IV	Allied Chemistry Practicals	<ul style="list-style-type: none"> ❖ To understand the principle of volumetric analysis such as acidimetry, alkalimetry, permanganometry, and iodometry. ❖ Prepare to identify the organic compounds.
S5CH5 CC7 Sem V	Inorganic Chemistry – I	<ul style="list-style-type: none"> ❖ To classify the types of mechanism involved in coordination compounds reactions. ❖ To explain the bond formation of coordination compounds according to Valence bond theory, Crystal Field Theory and Molecular Orbital Theory. ❖ inorganic complexes in their real life. For example, estimating the hardness of water in

		their own villages
S5CH6 CC8 Sem V	Organic Chemistry – I	<ul style="list-style-type: none"> ❖ Identify ,classify and draw structures of organic molecules. ❖ Apply the basic rules of organic nomenclature to interrelate between structures and names of organic compounds.
S5CHP3 CC9 Sem V	Organic Chemistry Practical – III	<ul style="list-style-type: none"> ❖ Understand the basic principles of qualitative analysis of organic compounds. ❖ To Prepare organic compounds in a single stage.
S5CHEL1A MEC1-Elective Course Sem V	Physical Chemistry - I	<ul style="list-style-type: none"> ❖ State and apply the laws of thermodynamics ❖ Perform calculations with ideal and real gases. ❖ Predict chemical equilibrium and spontaneity of reactions by using thermodynamic principles. ❖ Construct phase diagrams.
S5CHEL2A MEC2-Elective Course Sem V	Analytical Chemistry	<ul style="list-style-type: none"> ❖ Understand the principles of analytical chemistry. ❖ Use statistical method for evaluating and interpreting data. ❖ Understand the principles of chromatographic methods
S5CHELO1 NMEC1- Non Major Elective Sem V	Soil Science	<ul style="list-style-type: none"> ❖ Understand the role of soil forming factors and processes in soil formation. ❖ Imparts knowledge on essential nutrients, soil fertility, nutrient transformations in soil. ❖ Manures, fertilizers and soil fertility management through various approaches. ❖ Useful in making decisions on nutrient dose, choice of fertilizers and method of application etc. practiced in crop production. ❖ Understand various Nutrient management concepts and Nutrient use efficiencies of major and micronutrients and enhancement techniques. ❖ gain knowledge on chemical composition and nutritional quality of various field and horticultural crops .
S5SB3D Skill Based Elective -III Sem V	Agricultural Chemistry	<ul style="list-style-type: none"> ❖ To gain knowledge about types,Uses and preparation of synthetic Fertilizer. ❖ understanding the behaviour of soils in crop production and management. ❖ Classify soil type, soil texture and soil structure required for an agricultural field ❖ Analyze soil, water and nutrients related to crop growth .
S6CH7 CC11 Sem VI	Inorganic Chemistry – II	<ul style="list-style-type: none"> ❖ To know the applications of nuclear chemistry nuclear structure, stability, decay, nuclear reactions.

		<ul style="list-style-type: none"> ❖ Understand the interaction between radiation and matter: retardation, absorption and scattering. ❖ Learnt a chemical and biological effects of radiation: radiation chemistry. ❖ understand Interstitial compounds.
S6CH8 CC12 Sem VI	Organic Chemistry – II	<ul style="list-style-type: none"> ❖ Apply the principles of radical reactions to write a mechanism for these reaction ❖ Write equations for reactions involving alcohols, ethers, and aromatic compounds. ❖ Apply the principles of organic chemistry to determine the advantages and disadvantages of biochemical molecules in the human body.
S6CHP4 CC13 Sem VI	Gravimetric Analysis Practical - IV	<ul style="list-style-type: none"> ❖ Prepare organic compounds of gravimetric analysis ❖ To determine the melting point and boiling point of simple organic compounds.
S6CHP5 CC10 Sem VI	Physical Chemistry Practical – V	<ul style="list-style-type: none"> ❖ Understand the principles of partition coefficient, equilibrium constant, rate constant, molecular weight and electrochemistry.
S6CHEL3A MEC3 - Elective course Sem VI	Physical Chemistry – II	<ul style="list-style-type: none"> ❖ Relate macroscopic thermodynamic properties to microscopic states by using the principles of statistical thermodynamics. ❖ Relate reaction kinetics to potential reaction mechanisms. ❖ Calculate the temperature dependence of rate constant and relate it to activation energy.
S6CHELO2 NMEC1- Non major elective Sem VI	Industrial Chemistry	<ul style="list-style-type: none"> ❖ Basic application of chemistry In industries like water, cement ,sugar,rubber,plastics etc ❖ To know the quality requirement of water, analysis and treatment methods. ❖ Understand the role of chemicals in development of various value added products viz.fuels, lubricants and agrochemicals ❖ Understand the basic theory behind the behaviour of surfactants ❖ Understand how to select a particular surfactant for a particular application • ❖ Analyse the role of surfactant in various value added applications

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Department of Chemistry

M.Sc., - CHEMISTRY

PSO: Upon completion of the M.Sc. Degree programmes, students will be able to

- ❖ The students will improve their competencies on par with their counterparts in premier institutions across the nation.
- ❖ The students will become technically sound to handle the advance analytical instruments.
- ❖ The students will intensify their desire to contribute to the nation in the capacity of chemist or as innovator by taking up research career afterwards.
- ❖ The students will become well versed in the mechanisms of all types of high level and complicated chemical reactions.
- ❖ Know the structure and bonding in molecules/ ions and predict the Structure of molecule/ions.
- ❖ Understand good laboratory practices and safety.
- ❖ Learn the classical status of thermodynamics.
- ❖ Gathers attention about the physical aspects of atomic structure, various energy transformation, molecular assembly in nanolevel and significance of electrochemistry.

Course Code/ Paper/ Semester	Title	Course Outcomes
S1PCH1 CC I Sem I	Inorganic Chemistry – I	<ul style="list-style-type: none"> ❖ Predict geometrics of simple molecules ❖ Use of group theory to recognize and assign symmetry characteristics to molecules. ❖ Understand the metal complexes in biological system. ❖ To know the structure and bonding in molecules and ions
S1PCH2 CC 2 Sem I	Organic Chemistry – I	<ul style="list-style-type: none"> ❖ At the completion of this course the student will be able to ❖ Acquire the skills for correct stereochemical assignment and interpretation in rather simple organic molecules ❖ Identify ,classify and draw structures of organic molecules ❖ Apply the basic rules of organic nomenclature to

		interrelate between structures of organic molecules To identify the stereochemical notation
S1PCHP1 CC 3 Sem I	Inorganic Chemistry Practical – I	<ul style="list-style-type: none"> ❖ To understand the procedure of semi micro qualitative analysis and colorimetric analysis. ❖ How to predict the outcome and mechanism of some simple organic reactions, using a basic understanding of the relative reactivity of functional groups. ❖ How to use the scientific method to create, test, and evaluate a hypothesis. ❖ How to characterize products by physical and spectroscopic methods.
S1PCHP2 CC 4 Sem I	Organic Chemistry Practical – I	<ul style="list-style-type: none"> ❖ To familiarize the solubility nature of organic substances of different functional Group. ❖ To learn the pilot separation of bmixtures . ❖ To familiarize the systematic producers organic substances analysis ❖ To learn two stage preparation involving molecular rearrangement oxidation . ❖ □To know the preparation involving nitration and bromination ❖ To learn the conformatory test for various functional groups. ❖ To learn the preparations of derivative all functional groups.
S1PCHEL1A EC 1 Sem I	Analytical Chemistry	<ul style="list-style-type: none"> ❖ Understand the principles of analytical chemistry. ❖ Understand the procedures and applications of the analytical techniques. ❖ Use statistical method for evaluating and interpreting data. ❖ □To obtain a detailed knowledge about Atomic absorption spectroscopy for studying theconcentration of various elements ❖ To get a basic idea about polarography, its theory and applications ❖ To use the polarographic technique for studying the chemical equilibria.
S2PCH3 CC 5 Sem II	Inorganic Chemistry – II	<ul style="list-style-type: none"> ❖ Apply the concepts of Inorganic Chemistry to solve a range of different chemical problems. ❖ Basic concept of bio inorganic chemistry ❖ To predict the relative stability of oxidation states and corrosion tendency under various conditions. ❖ To study the role of inorganic substances in biological acivities. ❖ Use of Crystal Field Theory to understand the magnetic properties (and in simple terms the colour) of coordination compounds
S2PCH4 CC 6 Sem II	Organic Chemistry – II	<ul style="list-style-type: none"> ❖ Recall reagents and predict products for a defined set of organic reactions. ❖ To understand the naming reaction and molecular

		<p>rearrangement</p> <ul style="list-style-type: none"> ❖ To have and importance of natural products, Terpenes Alkaloids and Vitamins. ❖ To recognize either molecule is aromatic, non-aromatic or antiaromatic. ❖ To describe mechanism of different aliphatic nucleophilic substitution reactions.
S2PCHP3 CC 7 Sem II	Inorganic Chemistry Practical – II	<ul style="list-style-type: none"> ❖ To estimate the individual amount of mixture by gravimetric and volumetric ❖ To prepare single stage preparation of inorganic compounds
S2PCHP24 CC 8 Sem II	Organic Chemistry Practical – II	<ul style="list-style-type: none"> ❖ Assemble glassware and perform the following techniques as a part of synthetic procedure distillation, reflux, separation, isolation, and crystallization. ❖ Assemble glassware and perform syntheses requiring special conditions, including reactions under the reduced pressure, reactions in the air- and/or water protected systems, microwave induced reactions, etc.
S2PCHEL2A EC 2 Sem II	Physical Chemistry – I	<ul style="list-style-type: none"> ❖ Basic idea about quantum chemistry. ❖ The mathematics associated with quantum statistics including certain aspects of linear algebra. ❖ The quantum chemistry and how to apply this knowledge to atomic and molecular structure. Know the Eigen function, Eigen value, operator and postulates of quantum mechanics. ❖ Learn two and three dimensional box, mechanics of particle. ❖ The derivation of rate equations from mechanistic data. ❖ The use of simple models for predictive understanding of physical phenomena
S3PCH5 CC 9 Sem III	Inorganic Chemistry - III	<ul style="list-style-type: none"> ❖ To understand the basic concepts of spectroscopy ❖ To understand the applications of bio inorganic chemistry ❖ To acquire the basic knowledge in examining structure and measure properties of solid state materials using analytical tools. ❖ Describe the selection rule for infrared-active transitions. ❖ Determine the vibrations for a triatomic molecule and identify whether they are infrared-active. ❖ Determine whether the molecular vibrations of a triatomic molecule are Raman active.

S3PCH6 CC 10 Sem III	Organic Chemistry - III	<ul style="list-style-type: none"> ❖ Predict the physical properties of organic chemicals based on their structures. ❖ Analyze the influence of structure and physical properties of organic molecules on their biological properties. ❖ Understand the factors affecting UV-absorption spectra, Interpret IR spectra on basic values of IR-frequencies. ❖ Discuss the problem of UV, IR and NMR. ❖ To understand the Classification- structural elucidation and synthesis of cholesterol. ❖ To know the synthesis and structural elucidation of heterocyclic compounds
S3PCH7 CC 11 Sem III	Physical Chemistry – II	<ul style="list-style-type: none"> ❖ To study the concept of group theory and its applications. ❖ Solve Schrodinger wave equation for Rigid rotor and Linear harmonic oscillator and calculate their respective energies. ❖ Understand the concept of partition function, its physical significance and calculation of molar and atomic partition function. ❖ Recall the basics of thermodynamics, photochemistry and electrochemistry ❖ Differentiate the classical and quantum approaches. ❖ Describe Kinetics of reaction in solution and in catalytic reactions. understand the principles of Molecular Spectroscopy
S3PCHP5 CC 12 Sem III	Physical Chemistry Non Electrical Practical	<ul style="list-style-type: none"> ❖ Basic principle of kinetics, partition, CST, TT and Phase diagram. ❖ An appreciation for modern problems and scientific controversies in physical chemistry. ❖ How to design and perform experiments to determine the rate, order, and activation energy of chemical reactions by varying concentrations and/or temperature. ❖ To determination of the molar mass of an unknown non electrolyte and an unknown electrolyte from a freezing point depression experiment
S3PCHEL3A EC 3 Sem III	Industrial Chemistry	<ul style="list-style-type: none"> ❖ Basic application of chemistry In industries like water, cement, sugar, rubber, plastics etc ❖ To know the quality requirement of water, analysis and treatment methods. ❖ Understand the role of chemicals in development of various value added products viz. fuels, lubricants and agrochemicals ❖ Understand the basic theory behind the behaviour of surfactants ❖ Understand how to select a particular surfactant for a particular application

		<ul style="list-style-type: none"> ❖ Analyse the role of surfactant in various value added applications like detergency, adhesives, surface coatings, petroleum, pharmaceuticals etc. ❖ Understand the importance of crude petroleum as a resource for energy and chemicals
S4PCH8 CC 13 Sem IV	Physical Chemistry – III	<ul style="list-style-type: none"> ❖ Ability to interpret spectroscopic data for compound identification ❖ To study the fundamental principles and concepts of Quantum chemistry ❖ To impart knowledge on molecular spectroscopy ❖ To learn about Transport and Activity of ions and Electrolyte equilibrium in a solutions. ❖ To gain the depth knowledge in Elect kinetic phenomena.
S4PCHP6 CC 14 Sem IV	Physical Chemistry Electrical Practical	<ul style="list-style-type: none"> ❖ To understand the principle of pH meter. ❖ Methods to measure equilibrium concentrations and equilibrium constants for acid-base, solubility, and complexation reactions given initial concentrations of reactant. ❖ To the preparation of buffer solutions at a required pH, given a choice of solutions of acid/conjugate base pairs. ❖ To know the principle and mechanism of Conductometric and potentiometric titrations
S4PCSPW CC 15 Sem IV	Project Work	<ul style="list-style-type: none"> ❖ To understand the principles of research ❖ To understand the concepts of laboratory instruments and techniques
S4PCHEL4A EC 4 Sem IV	Applied Chemistry	<ul style="list-style-type: none"> ❖ Demonstrate skills in sampling , processing, preservation of environmental samples, quality assurance and quality control procedures in performance of analytical instruments ❖ use of analytical instruments in environmental pollution analysis and in the field of selected industries critically analyse and interpret scientific data
S4PCHEL5A EC 5 Sem IV	Nano And Computational Chemistry	<ul style="list-style-type: none"> ❖ Appreciate the importance of nanoscience ❖ recognize the different types of nanomaterials. ❖ Explain the principle for the various computational techniques

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M.Phil., CHEMISTRY

PSO: Pursue Ph.D programme with norms of scholarly research that chip into the augmentation of students personal and professional development

- ❖ Acquire in-depth knowledge of the process of developing new materials as well as gain expertise of well defined area of research in physics.
- ❖ Develop innovative methodologies to tackle issues identified and contributing to the development of technological knowledge and intellectual property
- ❖ Evolve as excellent professionals in the public sector units BARC/ISRO/DRDO/CSIR laboratories and contribute towards the scientific growth of the country
- ❖ Analyze the impact of new emerging areas of physics in the global, economic, environmental and societal context.
- ❖ Adopt Blooms Taxonomy in educational objectives
- ❖ Optimize counseling and guidance skills both for themselves and society
- ❖ Develop and enhance leadership and teaching skills.

Course code/Paper/ Semester	Title	Course Outcomes
S1MCH1 CC1 Sem I	Research Methodology	<ul style="list-style-type: none"> ❖ Be able to formulate research questions and develop a sufficiently coherent research design ❖ Be able to assess the appropriateness of different kinds of research designs and methodology, ❖ To develop independent thinking for critically analyzing research report
S1MCH2 CC2 Sem I	Physical Methods in Chemistry	<ul style="list-style-type: none"> ❖ Students will be able to understand the most commonly used techniques in structure determination. ❖ Students will be able to apply the knowledge they have learned to identify unknown molecules with a given set of characteristic spectra. ❖ Students will use spectroscopic data to make meaningful observations about the chemical properties of compounds.
S1MPTL3 CC3 Sem I	Teaching and Learning Skills	<ul style="list-style-type: none"> ❖ To understand the terms communication Technology and Computer mediated teaching and develop multimedia / e- content in their respective

		<p>subject.</p> <ul style="list-style-type: none"> ❖ To understand the communication process through the web ❖ To acquire the knowledge of Instructional Technology and its Applications
S1MCH4A CC4 Sem I	1. Principles and advances in medicinal chemistry	<ul style="list-style-type: none"> ❖ To understand the nomenclature and mechanism of drugs. ❖ Idea of drug discovery and Drug Design and Pharmacokinetics ❖ Principle of Combinatorial Synthesis ❖ To understand the Application of Drugs for Treatment
S1MCH4B CC4 Sem I	2. Synthetic chemistry	<ul style="list-style-type: none"> ❖ To identify, construct and synthesize the medicinally important new targets and their by screen their antimicrobial activities.
S1MCH4C CC4 Sem I	3. Reaction kinetics and advances in Nano Chemistry	<ul style="list-style-type: none"> ❖ Understand about the LFER, Taft equation and Yukawa Tsuno equation. ❖ Will have an idea about oxidation reaction and reaction mechanism. ❖ Will be aware of green synthesis and nano materials. ❖ Will be comprehend the structural characterization chemical and surface characterization ❖ Will gain research knowledge about the photocatalytic degradation of dyes by nanomaterials
S1MCH4D CC4 Sem I	4. Organic Reaction Mechanism	<ul style="list-style-type: none"> ❖ Use curly arrow reaction mechanisms and knowledge of the relative stability of intermediates to predict and / or account for the products of reactions. ❖ Recognize the functional group transformation ❖ Design experiments to probe asymmetric induction mechanisms ❖ Recognize principle of stereochemistry ❖ Combine reactions to achieve simple synthesis of target molecules.
S1MCH4E CC4 Sem I	5. Chemistry of polymers and Deep Eutectic solvents	<ul style="list-style-type: none"> ❖ To have an about different types of polymer synthesis and its characterization ❖ Will be able comprehend the applications of DES in Nano technology
S1MCH4F CC4 Sem I	6. Organic synthesis towards Heterocycles	<ul style="list-style-type: none"> ❖ Students can understand the basic concepts like, nomenclature, aromaticity and basic character of various heterocyclic compounds. Students can able to use various spectroscopic techniques for the structural identification heterocycles. ❖ After study this paper, students can apply and

		develop novel methods in the synthesis of different heterocycles
S1MCH4G CC4 Sem I	7. Crystal Growth and Nonlinear Optics	<ul style="list-style-type: none"> ❖ To understand the theoretical concepts involved in crystal growth and basic processes and features of nonlinear optical materials and to learn the basic characterizing techniques of materials ❖ Recognize the functional group transformation ❖ After study this paper, students can apply and develop novel methods in the synthesis of different nonlinear optical materials
S1MCH4H CC4 Sem I	8. Introduction on Phytochemistry and Nutrition Analysis	<ul style="list-style-type: none"> ❖ After study learned knowledge of variety of mushrooms. ❖ Acquired knowledge about sterilization and culture methods. ❖ Get the knowledge about nutrition ❖ Gained knowledge about harvest Management methods
S2MCHD CC5 SEM2	Dissertation and viva Voce	<ul style="list-style-type: none"> ❖ To understand the principles of research ❖ To understand the concepts of laboratory instruments and techniques


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