

List of PG Projects 2019-20 and 2020-21

MSc BOTANY 2019-2020			
Sl. No.	Name	Candidate code	Title of the project
1	AISWARYA S BABU	64518132001	Documentation of traditional Knowledge related to Plants used in Home remedies in Kollam district of Kerala.
2	AMRUTHA KRISHNAN	64518132002	Callus induction and invitromicropropagation of <i>Vitexnegundo</i> L., a potential medicinal plant.
3	ARCHANA SATHEESHAN. T	64518132005	Evaluation of anti -oxidant and anti – microbial properties of <i>Hemigraphisalternata</i> (Burm.f.)T. Anderson
4	ARYAKRISHNAN. V	64518132006	Study on Soil parameters of Sacred grove at Vendardevi temple, Kottarakkara, Kollam.
5	ATHIRA MADHAV SURYA. B	64518132007	Invitro regeneration and callus induction in <i>Hemidesmusindicus</i> L. R.Br., an important endangered medicinal plant.
6	DRISYA. D. S.	64518132008	Determination of antioxidant activity and heavy metal screening using atomic absorption spectrometry (AAS) in <i>Breyniaandrogyna</i> (L.)Chakrab& N. P. Balakr.
7	KAVYA RAMESH	64518132009	Analysis of Soil Physico–Chemical Parameters at Ayiramthengu Mangrove Ecosystem, Kollam.
8	KRISHNENDHU. S	64518132010	Studies on certain ecological implications of dried leaf litter of <i>Heveabrasiliensis</i> Muell Arg.
9	NANDU KRISHNAN. R	64518132011	Eco –Physiological Aspects of an Exotic Aquatic Weed, <i>Cambombacaroliniana</i> A. Gray Management in AranmulaThaluk, Kerala.
10	REMYA RANJITH	64518132012	Studies on certain ecological implications of dried leaf litter of <i>Tectonagrandis</i> L.f.
11	RESMI REVI	64518132013	Study On Soil Physico–Chemical Properties of Asramam Mangrove Ecosystem, Asramam, Kollam.
12	SADIYA. R	64518132014	Morphological Characterization of different members of the Family

			Apocyanaceae.
13	SAVITHA. S	64518132015	Documentation of traditional knowledge related to mother care plants used in Kollam district of Kerala.
14	SREELEKSHMI. S	64518132016	Morphological Characterization of <i>Hamelia patens</i> Jacq. and <i>Ixoracoccinea</i> Linn. (Rubiaceae)
15	SUBBALEKSHMI. S	64518132017	Water Quality Index Analysis In Panikkarukulam Pond Pallimukku, Kollam Corporation, Kerala
16	VARSHA BABU	64518132018	Development of Biodegradable Straws From <i>Lepironia articulata</i> (Retz.) Domin (Cyperaceae)

MSc BOTANY 2020-21			
Sl.No.	Candidate Code	Name of Candidate	Title of the Project
1	64519132001	AmalaAjayakumar	Morphological, Anatomical and Phytochemical Characterization of <i>Alternanthera sessilis</i> (L.) and <i>Alternanthera brasiliana</i> (L.) Kuntze
2	64519132002	Amina S	In vitro propagation for conservation of a rare medicinal plant <i>Justicia gendarussa</i> Burm f. by nodal explants and shoot regeneration from callus.
3	64519132003	Ammu S K	Physicochemical Evaluations and Pharmacognostical Standardization of <i>Hemigraphis colorata</i> W. Bull.
4	64519132004	Ananthakrishnan.G	A systematic study and nutritional evaluation on leafy vegetables of Kollam District, Kerala
5	64519132005	Anila .M . R	Biochemical and Micropropagation studies in <i>Alternanthera sessilis</i> (L.) R. Br.
6	64519132006	Anjana Kartha. A. J	Morphological and elemental analysis of <i>Andrographis echinoides</i> (L.) Nees. using Atomic Absorption Spectroscopy (AAS)
7	64519132007	Anjana Vijayan	Comparative study of Vesicular-Arbuscular Mycorrhiza (VAM) in selected Plantation of Coconut (<i>Cocos nucifera</i> L.) and Rubber (<i>Hevea brasiliensis</i> Mull. Arg.) at Anad Grama Panchayat in Thiruvananthapuram district.
8	64519132008	Anuvindha.A	Efficient micropropagation and callus regeneration in <i>Clinacanthus nutans</i> Burm f. Lindau, an ethano medicinal plant
9	64519132009	Archana.A	Preliminary phytochemical analysis, antioxidant and antimicrobial analysis of <i>Cnidioscolous aconitifolius</i> (Mill.) I.M. Johnst

10	64519132010	Archanasatheesan	Biochemical and physiological impact of water stress in two high yielding cultivars: Red banana and Nendran
11	64519132011	Arsha. U. P	Diversity and root colonization of VAM fungi in soil samples of selected agricultural crops from AnadGramapanchayat, Thiruvananthapuram, Kerala
12	64519132012	BinittaSreedhar	Studies on the bio efficacy of a commercial sample of herbal hand sanitizer.
13	64519132013	Kavery.S	Preliminary phytochemical analysis, antioxidant and antimicrobial analysis of <i>Thelypterisinterrupta</i> (Willd). K. Iwats.
14	64519132014	Manjima M	A Comparative Study of Macro-Microscopical and Physicochemical Parameters of Three Species of Genus Plumbago.
15	64519132015	Nikhitha. P. S	Nutritional, phytochemical and anti oxidant activities in the fruit extract of <i>Garciniaxanthochymus</i> : an underutilized fruit.
16	64519132016	ParvathyChandran	Water Quality Assessment of Varattuchira Temple Pond Perinadu, Kollam, Kerala.
17	64519132017	Shaniyamol P.N	Morphological and elemental analysis of <i>Cyathulaprostrata</i> (L.) Blume. using Atomic Absorption Spectroscopy. (AAS)
18	64519132018	Suji mol. S	Physicochemical Evaluations and Pharmacognostical Standardization of <i>Aeglemarmelos</i> (L.) Correa
19	64519132019	Suryalekshmi	Preliminary phytochemical analysis and antioxidant activity of <i>Strobilanthes ciliatus</i> Nees (Bremek).
20	64519132020	Thara A T	Studies on the cytotoxic, antimicrobial, antioxidant and plasmolytic activities of a commercial sample of hand sanitizer.
21	64519132021	Vismaya.M	Systematic studies on family Phyllanthaceae of Kollam district, Kerala

MSc ZOOLOGY 2019-2020

Candidate code	Name of student	Title of M.Sc. Project
65018132001	Agra V	Study on trash fishes in azheekal; their economic and ecological importance
65018132002	Akhila S.S.	Studies on the freshwater crabs <i>Oziotelphusa kerala</i> Bahir & Yeo, 2005 and <i>Lamella lamellifrons</i> (Alcock, 1909) collected from two southern districts of Kerala
65018132003	Ananya S	A pilot study on the isolation of biodegradable enzyme producing bacteria from fish and food

		waste collected from a local market in Kollam
65018132004	Anupama P.A.	Comparative studies of the scales in Orange Chromide, <i>Pseudetroplus maculatus</i> (Bloch 1795) with special reference to the morphometric characteristics
65018132005	Arathy P V	Diversity of damselflies at Polachira wetland and Kulathupuzha river bank (Kollam district), kerala, india
65018132006	Aswathy I	Brachyurans crabs of Neendakara Coast-Systematic accounts and its Diversity
65018132007	Athulya K	Effects of selected medicinal plants extracts against the storage pest <i>Tribolium castaneum</i> and their phytochemical analysis
65018132008	Gananjaly S	Effect of selected medicinal plants extract against storage pest, <i>Sitophilus oryzae</i> and their phytochemical analysis
65018132009	Monisha M S	A comparative study of nutritional status analysis of common malted health drinks
65018132010	Nayana J	A study on the wing scales of certain butterfly fauna in Kollam district, southern Kerala, India
65018132011	Neethu Krishnan B R	Estimation of protein in different fish and meat varieties
65018132012	Ramiya K R	Diversity of dragonflies at Polachira wetland and Kulathupuzha river bank (Kollam district), Kerala, India
65018132013	Remya R J	The effect of feed enriched with natural and artificial pigments on the coloration and growth variation in male and female guppies (<i>Poecilia reticulata</i>)
65018132014	Syamily S	Studies on the scale characteristics in relation to size in Blackspot Barb, <i>Dawkinsia filamentosa</i> (Valenciennes, 1844)
65018132015	Sree Lekshmi I	Taxonomic identification and diversity of different species of prawns and lobsters of Neendakara coast
65018132017	Thankamony	Diversity of butterflies in Perumkulam, Kottarakkara, in Kollam District, Southern Kerala, India
65018132018	Vidhya R	An alternative method for fish preservation using traditional plants.
65018132019	Vidya V	A study on the wing scales of different species of moths, in Kollam district, southern Kerala, India.
MSc ZOOLOGY 2020-2021		
	Name of student	Title of M.Sc. Project
1	ANASWARA S VENU	COMPARATIVE HISTOLOGICAL STUDY OF LIVER IN THREE SPECIES OF VERTEBRATES.
2	Aswathy C Babu	Various types of dermal denticles on <i>Mustelus canis</i> , with special mention to the methodology used

3	Athira S R	Diversity of Insect Pests and Beneficial Arthropods in Selected vegetables
4	Greeshma. M	Preliminary study on Diversity and Abundance of Odonates in the selected sites of Kollam and Trivandrum districts, Southern Kerala.
5	J S Aiswarya	An overview of health sector in Alappuzha district during the COVID- 19 pandemic.
6	Krishna SS	An overview of health sector in Thiruvananthapuram district during COVID-19 pandemic
7	L Aparna	Preliminary study on diversity and abundance of Grasshopper fauna in selected site of Kollam and Trivandrum, Southern Kerala
8	Madhurima. M	An Overview Of Health Sector in Kollam district During COVID-19 Pandemic
9	Meenu Madhusoodhanan	"OCCURRENCE AND DISTRIBUTION OF FAUNA OF GOLDEN ISLAND, VAKKOM"
10	Megha DC	Molluscan Diversity Along Kollam Coastline Kerala
11	Midhuna.S	A Study On The Wing Scales Of Certain Moth Fauna
12	Neelu Mohanan	A Study on the Wing Scales of certain Butterfly Fauna
13	Nisha K S	EMBRYONIC AND EARLY POST-EMBRYONIC DEVELOPMENT OF THREE SPIDER SPECIES VIZ _Cyrtophora citricola, Zosis geniculata and Plexippus paykulli
14	Prajeesha P. K	PROXIMATE COMPOSITION OF THREE COMMERCIALY AVAILABLE STRAINS OF OREOCHROMIS NILOTICUS (RED HYBRID TILAPIA, TILAPIA CHITHRALADA & GENETICALLY IMPROVED FARMED TILAPIA) CONSUMED IN KERALA, INDIA
15	Rajalekshmi R	Distribution, Diversity And Ecology of Spider Species along an Outdoor- Indoor Habitat Gradient
16	Saranya S	Effects of Flubendamide (FAME 480 sc)in biochemical composition of a freshwater fish <i>Oreochromis niloticus</i> .
17	SHILPA RAJ S	Studies on the Avian Fauna at Perumkulam Ela, Kollam, Kerala
18	Sithara R S	Impact of Covid-19 on Seafood industry in Kerala :- A case study.
19	Sulaikha S	Molecular Phylogenetic analysis of Lungfishes Belongs to Genera Neoceratodus, Lepidosiren and Protopterus
20	Syama sasidharan	Histological changes observed in liver of a fish <i>Oreochromis niloticus</i> exposed to flubendamide
21	Vrindha. S	Study on ant diversity in Ayiroor, Varkala

M.Sc. Analytical Chemistry 2020-2021

S.No	Name of Candidate	Title of Dissertation
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1	ABHIRAMI P. G.	DFT Study on Theoretical Calculations of UV-Vis and FMO Energies of 4-Bromophenyl Pyrazolo [3,4-b]Quinolone Derivatives
2	ANANTHAKRISHNAN S.	DFT Study on Theoretical Calculation of UV-Vis and FMO Energies Of 4-Fluorophenylpyrazolo[3,4-b]Quinolone Derivatives
3	ANJANA M. G.	QSAR and Molecular Docking of Novel JAK 2 Inhibitors
4	ARATHY S.	In Silico Studies on Antifungal Activity of Isoquinolone Fused Azabicycles
5	ARCHANA R.	Fabrication of a Novel Pani/MoS ₂ -WS ₂ Based Reduced Graphene Oxide Supported Electrodes for Hydrogen Production in Alkaline Media
6	ARDRA SATHYAN	Synthesis, Characterization and Biological Studies of Transition Metal Complexes of Cu(II) and Ni(II) With a Schiff Base Derived From Salicylaldehyde and Aniline
7	CHITHIRA KRISHNAN	In silico Study of Potent Phytochemicals as Inhibitors of Various Targets Involved in EGFR/RAS/RAF/MAPK Pathway
8	KRISHNA SAJEEV L.	Study on Water Quality Analysis near Thermal Power Plant, Kayamkulam
9	LEKSHMI BABU	Study on Water Quality Analysis of Ground Water around KMML Area Chavara
10	M. AKSHAYA	Synthesis, Characterization and Adsorption Studies of Polymer Grafted □-Cyclodextrin Embedded Clays for the Removal of Mercury(II) from Aqueous Systems
11	MIDHUN RAJ I.	Computational Studies on JAK2 Inhibition and Energetics of Formation of Methyl Pyrimidyl Aminopyrimidines
12	NEELIMA R. L.	Development of Polyelectrolyte Multilayer Membrane by Layer By Layer Method
13	NIVEDITHA BABU	Chemical Analysis of Water Quality in Urban Areas of Kollam
14	RENJITHA J.	Fabrication of V ₂ O ₅ Based Transition Metal Mixed Oxide @ Reduced Graphene Oxide for Photocatalytic Hydrogen Evolution Reaction
15	SRUTHI MOL S.	In Silico Study of Potent Phytochemicals as Inhibitors of PI3K/AKT/m TOR Pathway
16	SRUTHY S.	In Silico Studies on the Main Protease Inhibition of SARS-Cov 2 Virus by Isoquinolone Fused Azabicycles
17	SURYA SUDHAKARAN	Compartive Molecular Docking Study and Prediction of JAK 2 Inhibitors using Autodock and Arguslab

M.Sc. Chemistry 2020-21		
S.No.	Name of candidate	Title ofproject
1	ADWAITH K. P.	Development and Application of rGO Doped NiMoP/WS ₂ as an Efficient Electrocatalyst for Hydrogen Evolution Reaction
2	AISHWARYA ANIL	In Silico Studies on Inhibition of JAK/STAT Signaling Pathway using Phytochemicals as Anticancer Agents
3	AJMAL A. S.	DFT Study on Theoretical Calculation of UV-Vis and FMO Energies of 4-Cyanophenylpyrazolo[3,4-b]Quinolone Derivatives
4	ANJU PRASAD	A Study on the Therapeutic Potential of Annona Muricata as an Antibacterial and Anticancerous Agent

5	ARYA J.	A Green Method for Bromination of Salicylic Acid and Benzoic Acid
6	AYANA S.	A Kinetic Study of the Efficient Decolourization of Textile Dye using Starch and Starchbioplastic
7	JASMINA A.	Fabrication of rGO Embedded MnO ₂ Based Transition Metal Mixed Oxide Composite for Photocatalytic Hydrogen Evolution Reaction
8	KAVYA S. KUMAR	Synthesis and Characterisation of a Novel PANI/rGO Embedded Bimetallic Dichalcogenide for Electrochemical Sensing of Dopamine
9	KAVYA SATHEESH	Design, Development and Characterization of Polyelectrolyte Multilayer Membrane by Layer By Layer Method
10	KRISHNA S. SURESH	Synthesis and Characterization of Reduced Graphene Oxide Embedded Fe-Ti Composite for Photocatalytic Hydrogen Evolution Application
11	NEENA SEKHAR	Molecular Docking Based Screening of Inhibitors of Main Protease of Sars-Cov-2 Virus
12	PREETHI R.	
13	RESHMA REGHU	Synthesis and Metal Ion Sensing Study of Azoderivative of 4-Aminobenzoic Acid
14	SHALU S.	Synthesis, Characterisation and Antimicrobial Studies of Co(II), Ni(II), And Cu(II)Complexes Of Benzothiazene Derivatives
15	SREELEKSHMI S.	Surface Functionalized Beta Cyclodextrin Incorporated Layered Clays as an Efficient Adsorbent for Cd(II) from Aqueous Media
16	SULTHANA FEHROZA P. P.	A Study on the Therapeutic Potential of Simarouba Glauca as Antibacterial and Anti Cancerous Agent
17	THEERTHA MAHEENDRAN	In Silico Studies on Thromboxane Inhibition by Benzofuran Derivatives
18	VINEETHA P. GEORGE	Chemical Analysis of Ground and Surface Water Collected from the Coastal Area in Kollam District

MSc Physics 2019-2020		
Sl. No.	Name of the Student	Name of the Project
1	Adhithya S Thampi	Synthesis, Characterization and Adsorption Studies of Polyindole based Zinc Oxide / Magnesium Oxide Nanocomposite
2	Amirtha Ghosh	Morphological Analysis of Cobalt Oxide Nanoparticles Doped with Zinc and Its Optical Characterization
3	Amritha R S	Structural and Electrical Characterization of Cobalt Oxide Nanoparticles
4	Anjana S	Synthesis, Characterizations and Applications of Zinc Oxide Nano Particles Prepared in the Presence of Fruit and Vegetable Extracts
5	Anoop G Krishnan	Synthesis, Characterizations and Antibacterial Study of Zinc Oxide Nanoparticles
6	Anupama AC	Photocatalytic Degradation Studies of Copper Oxide/Zinc Oxide Heterojunction
7	Darsana S M	Synthesis, Structural and Dielectric Characterization of

		NiFe ₂ O ₄ Nanoparticles
8	Goutham Asok	Photocatalytic Study of Copper Oxide Nanoparticle Synthesized Via Co-Precipitation using Vegetable Extracts
9	Haripriya K R	Synthesis of Silver Nanoparticles by Solvothermal Method
10	Krishnendu B S	Impacts of Annealing on Photocatalytic Activity of ZnO
11	Krishnendu S B	Synthesis, Characterization and Antibacterial Studies of Heterojunction of Copper Oxide –Iron Oxide Nanoparticle
12	Pooja A S	Biosynthesis of Silver Nanoparticles using <i>Simarouba Glauca</i> Extract
13	Reshmi Ravi	Photocatalytic Activity Analysis of Mg Doped ZnO
14	Ridhun M	Optical and Structural Studies of Cobalt Oxide Nanoparticles
15	Rohini L	Polyaniline based Nickel Oxide- Zinc Oxide Nanocomposite : Synthesis Characterization and Applications
16	Sheeshna Anand	Structural and Optical Properties of Zinc Oxide Nanoparticles prepared by Coprecipitation Method
17	Sophy Mariyam Varghese	Exploring Ultrafast Energy Transfer Timescales for Recombinative Oxygen Desorption Reaction on Palladium Single Crystal Surfaces
18	Susmitha S Kumar	Dielectric Characteristics and Ltcc Application of WO ₃ Nanoparticles
19	Veena V Ajith	Synthesis of Nickel Oxide Nanoparticles for Antimicrobial Activity
20	Vishnu Prakash	Biosynthesis of Silver Nanoparticles using Psidium Guajava Extract

Sl. No	MSc Physics 2020- 2021	
1	RAHUL S R	STRUCTURAL, OPTICAL AND PHOTOCATALYTIC STUDIES OF COPPER OXIDE
2	Sivakumar vs	TEMPERATURE DEPENDENT STRUCTURAL &OPTICAL PROPERTY VARIATION OF ALUMINIUM IRON OXIDE NANOPARTICLES
3	Vaisakh ks	Physics
4	Anagha M L	Investigation of photocatalytic activity of ZnO synthesized by co_precipitation method
5	Drisya Shajikumar	SURFACE POTENTIAL OF LUNAR AVOGADRO CRATER
6	Vismaya S	Magnesium aluminate from solution combustion synthesis and variation in properties with annealing temperature
7	PRESITHA PRENRAJ	SYNTHESIS, STRUCTURAL, OPTICAL AND PHOTOCATALYTIC STUDIES OF COPPER ALUMINATE NANO PARTICLES
8	Nikita Maria George	Aluminium Zirconium Oxide Nanoparticles via Solution Combustion Synthesis
9	VAISHNAVI G	GREEN WASTE MEDIATED ZINC OXIDE NANOPARTICLES: SYNTHESIS, CHARACTERIZATION

		AND ANTIBACTERIAL STUDIES
10	Nidhi Jyothi	EFFECT OF CHITOSAN ADDITION ON BANDGAP AND ANTIMICROBIAL PROPERTIES OF CuO NANOPARTICLES
11	Aiswarya Raj	Effect of annealing on the structural,optical and photocatalytic behaviour of magnesium oxide nanoparticles
12	Neenu Nassar	Surface potential of lunar tycho crater
13	Revathy G S	Synthesis characterization and application of zinc oxide nanoparticles prepared in presence of natural extracts
14	Archana C S	Structural and optical studies of oxide spinel zinc aluminate
15	Arundhathi Anil	PHOTOCATALYTIC ACTIVITY OF ZnO SYNTHESISED BY COMBUSTION METHOD
16	Saniya S.M	Biosynthesis and Characterization of Zinc Oxide Nanoparticles using Onion Bulb Extract
17	Preethu P	Synthesis, characterization and anti-bacterial studies of pure and zinc doped copper oxide nanoparticles
18	SYAMJITH M	EFFECT OF MAGNESIUM DOPING ON STRUCTURE AND PROPERTIES OF COPPER OXIDE NANOPARTICLES
19	Anjana Rajendran	Synthesis of cuo nanoparticle
20	Gopika.B.R	Synthesis of NiO nanoparticle and its characterization studies
21	Keerthana S Lal	Synthesis and Structural Analysis of TiO ₂ -Biopolymer Nanocomposite for Photocatalytic Application.
22	Arun A G	PHOTOLUMINESCENCE AND BANDGAP CHARACTERIZATION OF NANO MoFe ₂ O ₆ SYNTHESIZED THROUGH A MODIFIED COMBUSTION TECHNIQUE
23	ATHIRA SURESH B	Synthesis of ZnO Nanoparticles and its characterization studies

Principal