



CRITERION II – TEACHING - LEARNING AND EVALUATION

2.6 Student Performance and Learning Outcomes

2.6.1 Attainment Of Learning Outcomes

Outcome Based Education (OBE) has been incorporated into the curriculum since 2019. OBE predicts the outcome of the programmes giving the students the direction, purpose and focus. The design of the curriculum has also been prepared in such a way that all the course contents in a given programme ensure that students finally end up at the destination dictated by POs and PSOs. The following is the sample of attainment of learning outcomes for M.Sc(Chemistry, Mathematics, Physics and Zoology).

QUALITATIVE INDICATOR

DEPARTMENT OF CHEMISTRY

PROGRAMME OUTCOMES (POs)

PO 1	To impart qualitative and the quantitative analytical knowledge in chemistry
PO 2	Enhance Proficiency in advance level of Chemistry.
PO 3	Carryout experiments in the area of organic analysis, estimation, separation, derivative process, inorganic semi micro analysis, preparation, conductometric and potentiometric titrations.
PO 4	Improve Career prospects(Inter and intra disciplinary) & Enrich individual skills (such as analytical reasoning, Critical thinking, Problem solving)
PO 5	Explore new areas of research
PO 6	Explain the integral activity of chemistry for addressing social, economic ,environmental issues , energy deficiency ,human health and medicine

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1	Have sound knowledge about the fundamentals of chemistry and applications on various fields.
PSO2	Will become familiarize with different areas of chemistry.
PSO3	Acquires the Ability to synthesize, separate and characterize compounds using laboratory and instrumental techniques
PSO4	Understanding the causes of environmental issues and its controlling measures
PSO5	To motivate the students to appear for CSIR-NET so that they take up research opprotunities at globale level.
PSO6	Create job opportunities at all level of chemical, pharmaceutical, food products, life oriented material industries.





S.NO	NAME OF THE STUDENT	TITLE OF THE PROJECT	MAPPING WITH		
			COURSE CODE	PO	PSO
1.	R.Abirami	Recovery of ZincOxide(ZnO)Nanoparticles from waste battery And evaluation of its antibacterial activity against gram Positive and gram negative bacteria	P21CH1MBE1:2	PO2	PSO3
2.	R.Abirami	Phytochemical screening and Anti-bacterial activity of Pipel Betel	P21CHC104P	PO1	PSO4
3.	G.Abitha	Phytochemical Screening and Vitro Anti-bacterial Activity of OcimumSantum Leaves Extracts	P21CHC104P	PO1	PSO4
4.	G.Anusuya	Extraction of natural dye from Chrysanthemum indicum and its application as antibacterial dyes for cotton cloth.	P21CH3MBE3:1	PO6	PSO4
5.	E.Durga	A study of cultivable and uncultivable lands in various taluk at thiruvavur district.	P21CH2MBE2:1	PO1	PSO 4
6.	D.Gowsalya	Green synthesis of Zinc Oxide Nanoparticles from Murayakopenigii and evaluation of its Antibacterial activities.	P21CH3MBE3:1	PO6	PSO4
7.	G.Haritha	Phytochemical screening and Anti-Bacterial activity of PhyllanthusEmblica.	P21CHC104P	PO1	PSO4
8.	B.Iswarya	Determination of Bioactive compounds And assessment of Anti-stressactivity of PunicaGrantum peel Extract.	P21CH3MBE3:1	PO6	PSO4
9.	M.Jaya	A study of phytochemical Analysis and Anti-bacterial Activity of FicusCarica Fruits.	P21CH3MBE3:1	PO6	PSO4
10.	K.Kalaivani	Anti-Lung cancer activity of phytoconstituents from OcimumSantum against serine protease inhibitor kazal-7.	P21CHC310	PO2	PSO4
11.	M.Kavitha	Phytochemical profiling and evaluation of invitro Antioxidant Activity of Aloe vera.	P21CHC104P	PO1	PSO4
12.	M.Manimozhi	Green synthesis of Iron Oxide nanoparticles from green tea extract and evaluation of its antibacterial activity against gram positive and gram negative bacteria.	P21CH3MBE3:1	PO6	PSO4
13.	S.Meera	Recovery of Copper Oxide(CuO0nanoparticles from waste Depopulated circuit board and evaluation of its antibacterial activity against gram positive and gram negative bacteria.	P21CH1MBE1:2	PO2	PSO3





S.NO	NAME OF THE STUDENT	TITLE OF THE PROJECT	MAPPING WITH		
			COURSE CODE	PO	PSO
14.	L.Nandhini	Thrombolytic activity and evaluation of phytochemical screening in BauhinaVariegataLeaves Extracts.	P21CH3MBE3:1	PO6	PSO4
15.	M.Nirmala	Phytochemical Analysis and Antiurolithiatic activity using PhillanthusNiruri leaves extract.	P21CH3MBE3:1	PO6	PSO4
16.	R.Nithya	A study of cultivable and uncultivable lands from various Gram panchayat at ThiruvaidaimaruthurTaluk.	P21CH2MBE2:1	PO1	PSO 4
17.	R.Nivetha	Green route to Synthesize Zinc Oxide(ZnO)nanoparticles using leaf extracts of Aloe vera(Aloe Barbadensis Miller) and their antibacterial potential against gram positive and gram negative bacteria.	P21CHC104P	PO1	PSO4
18.	V.Poorani	Investigation on Phytochemical characterization and invitroAntiuroliithiatic activity of TribulusTerrestris Thorn extract.	P21CH3MBE3:1	PO6	PSO4
19.	B.Powlinmary	A study on Phytochemical using different extraction techniques and evaluation of antibacterial activity of Ocimum Sanctum leaves.	P21CHC104P	PO1	PSO4
20.	N.Saranya	Recovery of Iron Oxide nanoparticles from waste Incense stick and its evaluation on antibacterial activity.	P21CH1MBE1:2	PO2	PSO3
21.	J.Seyalvizhi	Natural dye extraction from Bougainvillea Glabra Extract applied to cotton cloth and evaluation of antibacterial activity.	P21CH3MBE3:1	PO6	PSO4
22.	S.Sivapriya	Phytochemical screening and Anti-bacterial activity of Abutilon Indicum.	P21CHC104P	PO1	PSO4
23.	G.Sowmiya	Anti-Vaginal cancer activity of Phytoconstituents from OcimumBasillicum against serine protease inhibitor kazal-7.	P21CHC310	PO2	PSO4
24.	J.Suruthi	Phytochemical evaluation of Eucalyptus Globulus leaves and its photocatalytic activity under sodium light irradiation.	P21CH3MBE3:1	PO6	PSO4
25.	K.Vigneshwari	A study of soil analysis of cultivable and uncultivable lands in various taluk at villupuram district.	P21CH2MBE2:1	PO1	PSO 4
26.	R.Yogeswari	Anti-breast cancer activity of Phytoconstituents from Leucusaspera against exportin-1.	P21CHC310	PO2	PSO4





DEPARTMENT OF MATHEMATICS

PROGRAMME OUTCOMES (POs)

PO1	Demonstrate an understanding of the foundations and history of Mathematics.
PO2	Elaborate on the unifying structure of Mathematics.
PO3	Gain exposure to related areas of Mathematics and other fields.
PO4	Become involved with professional organizations in gaining insight into future employment prospects and establishing professional contacts.
PO5	Disseminate mathematical ideas both writing and oral.
PO6	Enable the students to acquire manipulative skills level of algebra, geometry, trigonometry and calculus.
PO7	Facilitate the students to communicate ideas effectively and to digest information and concepts independently.
PO8	Investigate and apply Mathematical problems and solutions in a variety of contexts related to science and Technology and illustrate these solutions using symbolic, numeric, graphical Methods.
PO9	Impart expertise so that the students will be able to compete in the national, international level competition for further studies so as to get growth and achievement.
PO10	Communicate scientific information and research results.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1	Have a strong foundation in core areas of Mathematics (both pure and applied).
PSO2	Gain the Ability to understand and deal with abstract concepts.
PSO3	Develop written and oral communications skills in order to effectively communicate, design and analyze the results.
PSO4	Use scientific symbolic computing software's and demonstration in lab.
PSO5	Gain a thorough knowledge in preparing themselves for the CSIR, NET and SET Examinations.
PSO6	Take up any project from the fields of science, technology, business and industry.





S.NO	NAME OF THE STUDENT	TITLE OF THE PROJECT	MAPPING WITH		
			COURSE CODE	PO	PSO
1.	Abinaya M	A Study On $S\alpha$ -Connectedness And Application Of A-Open Sets In Topological Spaces	P21MC311	PO9	PSO5
2.	Abinaya S R	A Study On Applications Of Mathematics In Social And Biological Science	P21M2EDC/ P21M4MBE4:2	PO3	PSO1
3.	Abirami M	A Study On Queueing Theory And Its Application	P21M4MBE4:2	PO8	PSO1
4.	Anjugam M	A Study On Concept And Results On Complete Fuzzy Metric Space	P21M3MBE3:1	PO10	PSO3
5.	Baranika S	A Study On Mathematical Modelling Of Ship Stability	P21M2EDC/ P21M4MBE4:2	PO4	PSO1
6.	Bhooma Shakthi M	A Study On Application Of Graph Theory In Social Media	P21MC103	PO8	PSO6
7.	Bhuvaneshwari G	A Study On The Zero Divisor Graph	P21MC103	PO8	PSO6
8.	Bhuvaneshwari K	A Study On Cycle Space And Bond Space	P21MC311	PO2	PSo5
9.	Bhuvaneshwari M	A Study On Standard Eigen Vectors And Indices Of Incline Matrices	P21MC205	PO2	PSO5
10.	Deepika M	A Study On Spectrum And Energy Of Graph	P21MC103	PO8	PSO6
11.	Fayza Zulaiha F	A Study On Artificial Fuzzy Neural Networks And Hybrid Fuzzy Neural Networks	P21M3MBE3:1	PO3	PSO3
12.	Kamali A	A Study On Application Of Interval Valued Fuzzy Soft Matrix(Ivfsm) In Decision Making Problem	P21M3MBE3:1	PO3	PSO3
13.	Kanimozhi D	A Study On Ideal Closure Spaces And Semi Prime Ideal In Topological Spaces	P21MC311	PO2	PSo5
14.	Kavipriya K	A Study On Edge Colouring Of Fuzzy Graph And Its Application	P21M3MBE3:1	PO3	PSO3
15.	Keerthana A	A Study On Network Topology And Its Application	P21MC311	PO2	PSO1
16.	Madhumitha K	A Study On Radio Mean Square Labelling Of Some Graphs	P21M3MBE3:1	PO3	PSO3
17.	Maragathavalli S	A Study On Applications Of Mathematics In Industrial Field	P21MC312	PO1	PSO6
18.	Mohanapriya A	A Study On Fuzzy Boolean Algebra With Applications	P21M3MBE3:1	PO1	PSO5



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S.NO	NAME OF THE STUDENT	TITLE OF THE PROJECT	MAPPING WITH		
			COURSE CODE	PO	PSO
19.	Mohanasundhari P	A Study On Rhotrix Theory And Its Application	P21MC101	PO2	PSO6
20.	Nalinapriya S	A Study On Network Topology And Its Application	P21MC311	PO2	PSO3
21.	Priyadharshini K	A Study On Lucky Edge Labelling Of Planar Grid And Corona Graphs	P21MC103	PO3	PSO3
22.	Priyadharshini K	A Study On Design Of Measure Of Fuzzy Inclusion	P21M3MBE3:1	PO8	PSO6
23.	Sankari S	A Study On Some Types Of Bilinear Form In Finite Dimensional Vector Spaces	P21MC312	PO7	PSO6
24.	Sanmugapriya M	A Study On Projection Matrices	P21MC312	PO1	PSO3
25.	Sarmila M	A Study On Minimal Open Sets On Generalized Topological Space	P21MC311	PO2	PSO5
26.	Subetha K	A Study On Refined And N- Refined Neutrosophic Matrices	P21MC101	PO1	PSO5
27.	Supraja P	A Study On Uniform Convergence In Topology And Almost Uniform Convergence In Topology	P21MC311	PO2	PSO5
28.	Swetha R	A Study On Hyper Graph	P21MC103	PO8	PSO3
29.	Tamilarasi B	A Study On Coding Theory And Its Application		PO7	PSO4
30.	Vaishnavi M	A Study On Intuitionistic Fuzzy Soft Matrices And Its Application Of Medical Diagnosis	P21M3MBE3:1	PO3	PSO3
31.	Veeraselvi D	A Study On Different Cardinal Labelling Of Some Cycle And Subdivision Of Snakes Related Graph	P21MC103	PO3	PSO1
32.	Vinisha B	A Study On Interval-Valued Fuzzy Matrices And Its Applications	P21M3MBE3:1	PO3	PSO3





DEPARTMENT OF PHYSICS

PROGRAMME OUTCOMES (POs)

PO1	Knowledge Development.
PO2	Employability skills.
PO3	Developing new projects and designs.
PO4	Experimental Skills.
PO5	Grooming the candidates to explore knowledge independently.
PO6	Design and conduct of demos/create models to analyze/interpret data.
PO7	Acquire the expertise to solve any dynamical system.
PO8	Develop skills to contribute to R&D.
PO9	Groomed to collate information from different sources and gain coherent understanding of the subject.
PO10	Groomed to become professionally competent to develop independent thinking.
PO11	Inculcate the skills to exploit learning resources including libraries, e-resources etc.to stay abreast of recent developments.
PO12	To help the students accomplish tasks either individually or as member of a group in multidisciplinary settings.
PO13	Framing of the curriculum, to inculcate ethical values, social responsibility, professional competence, pragmatic wisdom, commitment to nation in the area of science and technology.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1	Problem solving skills
PSO2	Learn basics of core and applied physics.
PSO3	Exposure to classical, quantum, mathematical, statistical, condensed matter, electromagnetic theory and nuclear physics.
PSO4	Specialized understanding of advanced topics like Nonlinear Dynamics, crystal growth, thin films and nano materials.
PSO5	Expertise to develop coding skills and numerical simulation.
PSO6	Developing extra disciplinary/interdisciplinary skills to understand natural phenomena.
PSO7	Research aptitude towards experimental and theoretical physics.
PSO8	Explore avenues of research in Institute of Plasma Research (IPR), Physical Research Laboratory(PRL), Institute of Physics (IOP), Saha Institute of Nuclear Physics(SINP), Raman Research Institute(RRI), IISc, IISER, CECRI, etc.
PSO9	To impart expertise to enable the students to characterize materials and understand their properties.





S.NO	NAME OF THE STUDENT	TITLE OF THE PROJECT	MAPPING WITH		
			COURSE CODE	PO	PSO
1	Aarthi. M	Biological synthesis of Zinc Oxide nanoparticles from Terminalia arjuna leaves extract and photocatalytic activities	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
2	Akshaya. N	Green synthesis and characterization of ZnO Nanoparticles using the extract of Cymbopogon citrates	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
3	Anitha. R	Investigation of optical properties and morphology of hydrothermally manufactured TiO ₂	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
4	Aswini. V	Single XRD diffraction and Photoluminescence analysis of dL - Serine oxalic acid crystal	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
5	AyeeshaBanu.T	Green synthesis and characterization of CdO nanoparticles	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
6	Deepana. M	Characteristics of water and estimation of water Quality index	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO9
7	Diviya. S	Synthesis, Characterization of electrochemical studies of TiO ₂ nanoparticle doped with Zinc	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
8	Hasrin. T	UV - Visible and powder X-ray diffraction analysis of L - Serine succinic acid crystal	P21PH4MBE4:1	PO2, PO 4, PO 8	PSO9
9	Indhumathi. S	Characterization and electrochemical properties of TiO ₂ nanoparticle doped with cadmium	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO9





S.N O	NAME OF THE STUDENT	TITLE OF THE PROJECT	MAPPING WITH		
			COURSE CODE	PO	PSO
10	Krishnaveni. M	UV - Visible and powder X-ray diffraction analysis of D L - Serine succinic acid crystal	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
11	Nandhini. G	Synthesis, Characterization of electrochemical studies of TiO ₂ nanoparticle doped with Zinc	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
12	Papathi. P	Synthesis and Characterization of ZnO nanoparticles using Aervalenata leaf extract their photocatalytic activity	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
13	Priyadharshini. S	Physico - Chemical parameters of water in and around aduthurai and assessment of water Quality index	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
14	Priyadharshini. S	Green synthesis Characterization and photocatalytic application of ZnO nanoparticles synthesized by cynodendactylon leaves extract	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
15	Radha. R	Green synthesis of ZnO nanoparticles using pongamiapinnaata leaf extracts with degradation of phodamine B dye	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO9
16	Rajalakshmi. A	Green synthesis and Characterization of TiO ₂ nanoparticles	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
17	Rasika. R	Synthesis, Characterization of Cadmium doped TiO ₂ with characteristic and its nanoparticles.	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSOs 9
18	Sheeladevi.R	Single XRD diffraction and Photoluminescence analysis of L - Serine succinic acid crystal	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9



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			COURSE CODE	PO	PSO
19	Shymaladevi. K	Green synthesis and characterization of CdO nanoparticles	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
20	Shivanthi. C	Synthesis and Characterization of TiO ₂ doped with Zinc sulphide	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
21	Sneha. B	Structure and optical studies of cadmium doped Titanium nanoparticles	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 9
22	Subhashini. M	Synthesis, Growth and characterization of L - serine and succinic NLO crystals	P21PH4MBE4:1	PO2, PO 4, PO 8	PSO 9
23	Suvedha. B	Green Synthesis, Growth and characterization of TiO ₂ nanoparticles.	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO9
24	Vinitha. V	FTIR and FT -Raman analysis of DL - serine oxalic acid crystal	P21PH4MBE4:1	PO 2, PO 4, PO 8	PSO 8, PSO9





DEPARTMENT OF ZOOLOGY

PROGRAMME OUTCOMES (POs)

PO1	Impart interest in learning the concepts of life sciences.
PO2	Develop analytical, communication and professional skills.
PO3	Will help to improve the technical skills for experimental purposes.
PO4	Import the ability to adopt scientific methods and hypothesis testing in designing and execution of experiment.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1	Develop understanding of key concepts of biology at biochemical, molecular and cellular level
PSO2	Observe and understand animal-animal, animal-plant, animal-microbe interactions and their consequences to animals, humans and the environment and it's impact on complex evolutionary processes.
PSO3	The principles of Genetics in the light of advancements in understanding human genome and genomes of other model organisms are strengthened. This enables the students to apply their knowledge in Genetics to understand human traits and genetic disorders.
PSO4	The learning of expression of genome revealing multiple levels of regulation and strategies to manipulate it for the benefit of mankind.
PSO5	Learning, handling DNA sequence data and its analysis to equip the students to get employed in R&D in the industry involved in DNA sequencing services, diagnostics, and microbiome analysis.
PSO6	Impart an understanding of zoological science for its application in medical entomology, agriculture based practices like apiculture, aquaculture, and modern medicine provides employment opportunities and entrepreneurial skills.
PSO7	Develop theoretical and practical knowledge in handling the animals and using them as model organism.
PSO8	To impart expertise to enable the student to characterise material and understand their properties.



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S.NO	NAME OF THE STUDENTS	TITLE OF THE PROJECT	MAPPING WITH		
			COURSE CODE	PO	PSO
1.	Banumathi. P	Studies Of Food And Feeding Habits Of Indian Mackerel, Rastrelliger Kanagurata(Cuvier1816), Akkaraipettai Coastal Waters, Southeast Coast Of India	P21Z1MBE1:1	PO1 PO2	PSO 6
2.	Bharatha Priya. S	Biosynthesis Of Silver Nanoparticles Using Digera Muricata Against The Dengue Vector Aedes Aegypti	P21Z2MBE2:1	PO1 PO2 PO3	PSO 6
3.	Dharani. V	The Comparative Biochemical Analysis Of Unifloral Fram Honey Of Hibiscus And Tulsia Origin	P21Z1MBE1:3	PO2 PO3	PSO 6
4.	Gayathri. G	Studies Of Food And Feeding Habits Of Red Snapper Lutjanus Campechanus (1860) In Akkaraipettai Coastal Waters, Southeast Coast Of India Tamil Nadu	P21Z1MBE1:1	PO1 PO2	PSO6
5.	Karparatchambigai. S	Biosynthesis Of Silver Nanoparticles Using Pumpkin Seeds (Cucurbita Pepo) Extract Assisted Antibacterial Activity And Characterization	P21ZC311	PO1 PO3	PSO 8
6.	Karthika. N	Biosynthesis And Characterization Of Silver Nanoparticles Using Cucurbita Pepo Seeds And Analysis Of Their Antifungal Activity	P21ZC311	PO1 PO3	PSO 8
7.	Kokilavani. K	Efficacy Of Edta Agaist Mercuric Chloride Induced Behavioral Changes In The Fresh Water Fish Labeo Rohita (Hamilton)	P21Z1MBE1:1	PO1 PO3 PO4	PSO 6
8.	Maheswari. V	Evaluation Of The Selected Plants And Their Impacts On Pest Control (Callosobruchus Maculatus)	P21Z2MBE2:1	PO1 PO3 PO4	PSO 6



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S.NO	NAME OF THE STUDENTS	TITLE OF THE PROJECT	MAPPING WITH		
			COURSE CODE	PO	PSO
9.	Sathya. V	Pollen And Biochemical Analysis Of Honey Samples	P21Z1MBE1:3	PO1 PO3 PO4	PSO 8
10.	Subalakshmi. R	Effects Of The Selected Plant Powders For Controlling Stored Grain Pest Rice Weevil (Sitophilus Oryzae)	P21Z2MBE2:1	PO1 PO3 PO4	PSO 6
11.	Surya. K	Effectiveness Of Glutathione Against Mercuric Chloride Induced Effect In Fresh Water Fish Labeo Rohita (Hamilton)	P21Z1MBE1:1	PO1 PO3 PO4	PSO 6
12.	Uma. J	Mosquito Larvicidal Efficacy Of Digeria Muricata Plant Extracts Against Zika Virus Vector Aedes Albopictus	P21Z2MBE2:1	PO1 PO2 PO3	PSO 6



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In addition to the above qualitative indicator of attainment, the following methods are also adopted to ascertain how far the attainment is achieved in each programme.

Direct Assessment method

- ❖ Quiz
- ❖ Project
- ❖ Lab/ Field/Practical work
- ❖ Seminar
- ❖ Assignment
- ❖ Class room participation

Indirect Assessment method

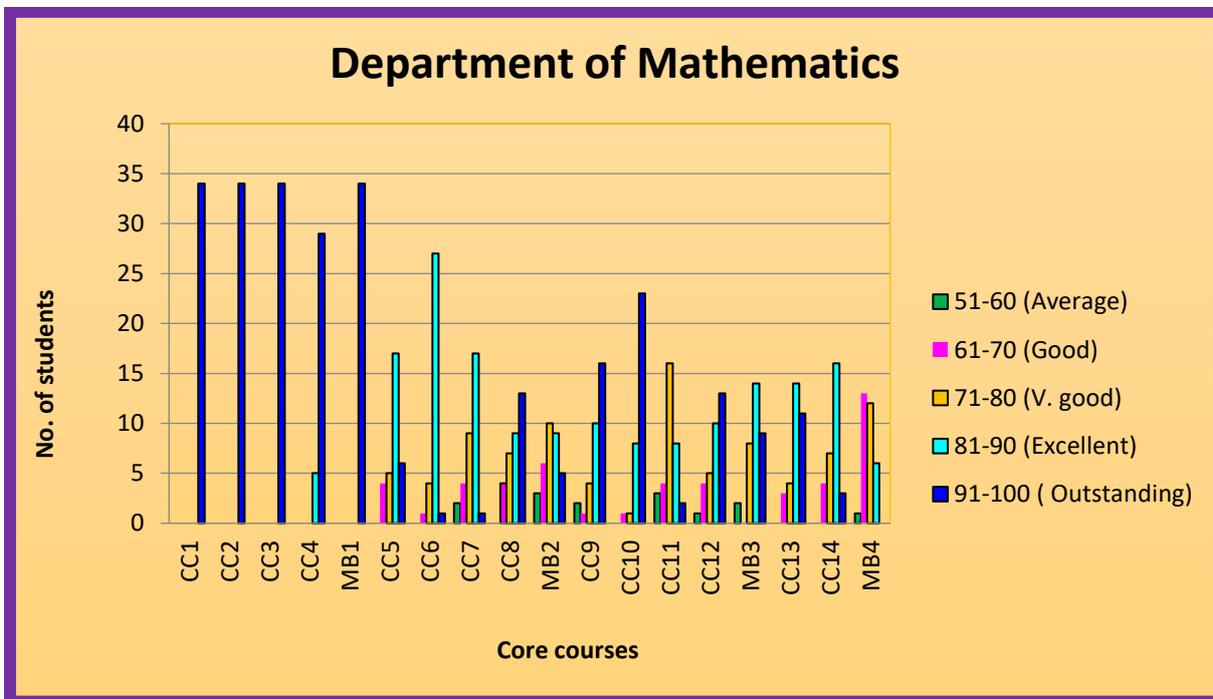
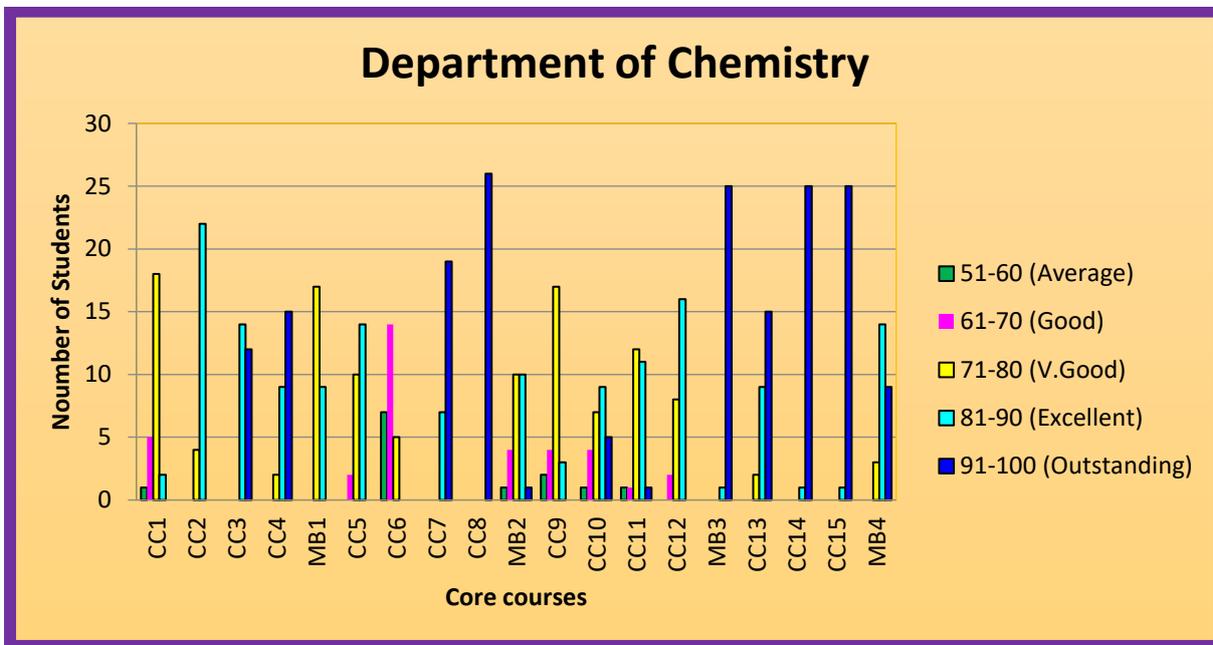
- ❖ Feedback on the curriculum

This feedback is collected from the students based on different parameters like library, Internet facilities, learning materials etc., when they undergo the programme.



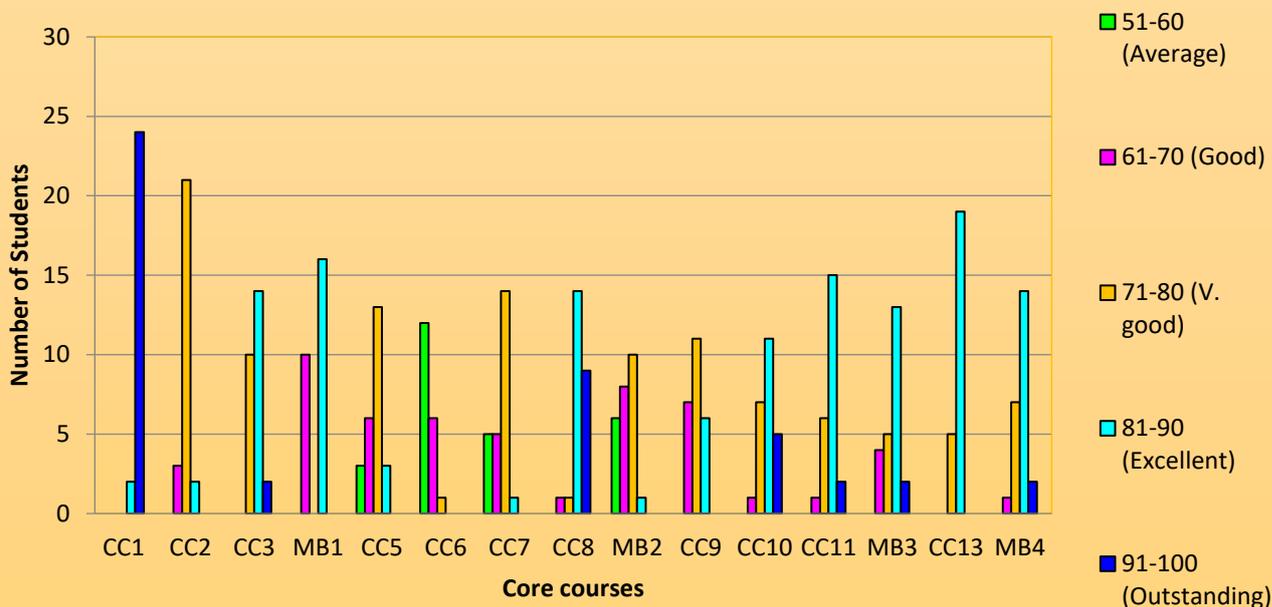


QUANTITATIVE INDICATOR





Department of Physics



Department of Zoology

