

CATEGORY DESCRIPTIONS		
1 AGRICUITUR	AL SCIENCES (AGR)	
	g methods used to raise and take care of plants and animals	
Animal	concerned with improving conditions, processes and production systems for livestock to increase	
Husbandry	yield for human consumption	
•	cultivating fish, crustaceans, molluscs, algae under controlled conditions mostly for commercial	
Aquaculture	purpose	
• • •	concerned with producing and using plants for food, fuel, etc. and includes plant breeding,	
Crop Sciences	horticulture and soil management, for example innovative crop solutions to increase productivity	
2. ANIMAL SCIE	NCES (ANI)	
The study of animal	•	
Animal Behaviour	is the study animal behaviour with emphasis on the behavioural patterns that occur in natural	
	environment.	
A	is the study of genetic variation, genes and heredity in animals, specifically mechanisms of hereditary	
Animal Genetics	transmission and variation of inherited characteristics	
Animal	is the scientific study of the internal physical and chemical functions of animals	
Physiology		
Aquatic Animals	Is the study of animals (vertebrate or invertebrates) that live in water for most or all of their lifetime.	
Entomology	is the branch of zoology which is the scientific study of insects	
Wildlife	is the study of the conservation of wildlife, including endangered animals	
Management		
Zoology	is the scientific study of the behaviour, structure, physiology, taxonomy and distribution of animals	
	and MEDICAL SCIENCES (BIO)	
	is the scientific understanding of how cells, organs and systems function and it is relevant to the	
	ıman diseases and treatment. It is the application of science to knowledge, technology and	
interventions regard	ding healthcare and medicine.	
	refer to conditions of the living animal or plant or of one of its parts that impairs normal functioning,	
Diseases and	and is typically manifested through distinguishing signs and symptoms. Studies are concerned with	
Illnesses	infectious and communicable diseases, including the clinical aspects such as the use and effect of	
	antimicrobial and antibiotic substances	
Food Science and	is the study of the nature of foods, the causes of their deterioration, and the principles underlying	
Technology	food processing as well as the selection, preservation, processing, packaging and distribution of food. This includes nutrition and dietary needs.	
	is the provision of services, the processes for the prevention of illnesses and injuries as well as the	
Health Care	promotion and awareness of wellbeing.	
	is the study of genes, genetic variation, and heredity in humans and how they are can cause certain	
Human Genetics	diseases? An understanding of genetic diseases may influence treatment.	
Human	is the study of physical and biochemical functioning of the human body and different organ systems.	
Physiology	It includes understanding of cell physiology, immunology and organ systems.	
	is the science concerned with the diagnosis, treatment, and prevention of diseases and illnesses. This	
Medical Science	includes translational medicine, which is the discovery of new diagnostic tools and treatments, using	
	a multi-disciplinary bench-to-bedside approach.	
Microbiology	is the study of the structure, function, uses and modes of existence and the associated diseases of	
	microscopic organisms such as eukaryotes (fungi and protists) and prokaryotes (bacteria and algae)	
	and viruses. This includes the use of microorganisms for medical applications such as treatments. This	
	sub-category focuses on:	
	<b>Bacteriology</b> is the study of the biology of bacteria as well as the associated diseases. It includes the study of	
	the biochemistry, physiology, molecular biology, ecology, evolution and clinical aspects of diseases caused by	
	bacteria.  Virology is the study of the biology of viruses as well as the associated diseases. It includes the study of the	
	biochemistry, physiology, molecular biology, ecology, evolution and the clinical aspects of diseases caused by	
	viruses.	
	Mycology is the study of fungi as well as the associated diseases. It includes the study of the biochemistry,	
	physiology, molecular biology, ecology, evolution and clinical aspects of fungal diseases.	
Pharmacology	is the science of drugs, concerned with the uses, effects and modes of actions of drugs, on living	
	tissues and systems and their effects on health and wellbeing, as well as the treatment of illnesses.	
Sports Sciences	is a multi-disciplinary field concerned with the understanding and enhancement of human	
	performance in exercise and sport. It includes the knowledge, methods and applications of the sub-	
	disciplines of human movement studies (i.e. exercise physiology, biomechanics, motor control and	
Veterinany	motor development, exercise and sport psychology), as well as how they interact	
Veterinary Sciences	is concerned with animal pathology and healthcare, specifically with the prevention, diagnosis and treatment of diseases in animals (domesticated and wild).	
Juliucia	treatment of diseases in animals faoritesticated and what.	

Insights from data in various forms, including data mining. This requires data management (collection, validating, storing, protecting, and processing data) and data analysis.    Institute the use of computers and infrastructure to create networks and the study of how these networks communicate. This includes the practice of transporting and exchanging data between nodes over shared medium in an information system comprising of hardware and protocols (wired and wireless technology)    Primarily focus on the interface between the hardware and users, the development of unique applications and the different programming languages used. Examples include programming applications for mobile devices, social media platforms, office suites, gaming applications, and educational software    Section	A CHEMISTRY A	ND RIOCHEMISTRY (CUR)
transformations they undergo. Biochemistry is the branch of science that explores the chemical processes within, and related to, living organisms.  Analytical is the study of the composition, separation, identification and quantification of chemical componer of materials.  Biochemistry is a laboratory based science, which brings together biology and chemistry. It explores the chemical processes within and related to living organisms at a molecular level incorganic is the study of the structure, synthesis, properties and reactions of all chemical elements and Chemistry compounds, which includes metals and minerals, other than organic compounds. Which by definition contain carbon.  Polymer is the study of the synthesis, characterization and properties of monomers, polymer molecules or macromolecules whether natural or synthetic.  S. COMPUTER SCIENCES AND SOFTWARE DEVELOPMENT (COM)  Computer Science is the study of computational systems and information technology, specifically the theory, design, development, and application of these systems. This includes artificial intelligence, computer systems and networks, security, database systems, human-computer interaction, vision and graphics, numerical analysis, software systems and languages, bioinformatics and the theory of computing.  Data Guess on collecting, validating, storing, protecting, and processing data usually using databases and singlish from data in various forms, including data mining. This requires data management (collection, validating, storing, protecting, and processing data) and data analysis. Is the use of computers and infrastructure to create networks and the study of how these networks communicate. This includes the practice of transporting and exchanging data between nodes over shared medium in an information system comprising of hardware and protocols (wired and wirelest etchnology)  primarily focus on the interface between the hardware and users, the development of unique applications for mobile devices, social media platforms, office suites		· ·
Analytical is the study of the composition, separation, identification and quantification of chemical componer of materials.  Biochemistry 5		
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Security		
Biochemistry		
Inorganic is the study of the structure, synthesis, properties and reactions of all chemical elements and Chemistry compounds, which includes metals and minerals, other than organic compounds.  Organic is the study of the structure, properties, composition, reactions, and synthesis of organic compounds.  Polymer is the study of the synthesis, characterization and properties of monomers, polymer molecules or macromolecules whether natural or synthetic.  S. COMPUTER SCIENCES AND SOFTWARE DEVELOPMENT (COM)  Computer Science is the study of computational systems and information technology, specifically the theory, design, development, and application of these systems. This includes artificial intelligence, computer systems and networks, security, database systems, human-computer interaction, vision and graphics, numerical analysis, software systems and languages, bioinformatics and the theory of computing.  Data Management is the field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from data in various forms, including data mining. This requires data management (collection, validating, storing, protecting, and processing data usually using databases is the field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from data in various forms, including data mining. This requires data management (collection, validating, storing, protecting, and processing data usually using databases where demanded in an information system comprising of hardware and protocols (wired and wireless technology)  primarly focus on the interface between the hardware and users, the development of unique applications for mobile devices, social media platforms, office suites, gaming applications, and the different programming languages used. Examples include programming applications for mobile devices, social media platforms, office suites, gaming applications of the diverse physical, biological, and cultural features of the earth's surface.  Clima	Chemistry	
Chemistry         compounds, which includes metals and minerals, other than organic compounds.           Organic         is the study of the structure, properties, composition, reactions, and synthesis of organic compounds.           Chemistry         which by definition contain carbon.           Polymer         is the study of the synthesis, characterization and properties of monomers, polymer molecules or macromolecules whether natural or synthetic.           S. COMPUTER SCIENCES AND SOFTWARE DEVELOPMENT (COM)           Computer Science is the study of computational systems and information technology, specifically the theory, design, development, and application of these systems. This includes artificial intelligence, computer systems and required and splication of these systems. This includes artificial intelligence, computer systems and languages, bioinformatics and the theory of computing.           Data Management         focuses on collecting, validating, storing, protecting, and processing data usually using databases and languages, bioinformatics and the theory of computing.           Data Sciences         is the field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from data in various forms, including data mining. This requires data management (collection, validating, storing, protecting, and processing data usually using databases and management (collection, validating, storing, protecting, and processing data) and data analysis.           Networking         is the sue of computers and infrastructure to create networks and the study of how these networks communicate. This includes the practice of transporting and exchanging data between nodes over technology. <td>Biochemistry</td> <td></td>	Biochemistry	
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/	7. FNFRGY (FNP	
Study of angray systems and various aspects including productivity, apparation using renovable and non-renovable	•	
Study of energy systems and various aspects including productivity, generation using renewable and non-renewable sources, as well as the efficient and sustainable use of energy		ne efficient and sustainable use of energy
costs, reducing energy consumption or some combination of these (e.g. using energy efficient light bulbs)	Productivity	processes and technologies at all stages of production. For example, acquiring and processing raw materials (coal, natural gas, nuclear, petroleum) storage, transmission and distribution of energy. Energy efficiency is the part of Energy Productivity focusing on minimising energy wastage, reducing costs, reducing energy consumption or some combination of these (e.g. using energy efficient light bulbs)
Non-renewable is the study and design of energy systems from non-renewable resources, such as fossil fuels (coal,		
Energy petroleum, and natural gas).		
<b>Renewable</b> is the study and design of energy systems using renewable resources (naturally replenished), for	Renewable	
Energy example sunlight, wind, rain, tides, waves, bio-energy, etc.		

8. ENGINEERING (EN	IG)
•	ries, mathematical methods and computer sciences to solve problems within society.
	is the study, design, control and application of medicine, biology and technology for healthcare
Biomedical Engineering	purposes such as prosthetics and diagnostic equipment
Chemical /Process	is the study, design, control, and application of systems and processes to convert input substances
Engineering	into desired output substances
Civil & Industrial	Civil Engineering is concerned with the planning, design, construction and maintenance of structures.
Engineering	Industrial engineering is about the optimization and streamlining of complex processes, systems or organizations to reduce wastage of time, money and other resources and materials
Electrical, Electronics and	is the study, design, control and application of electricity, electronics, circuits, devices,
Embedded Systems	microcontrollers and electromagnetism to solve problems
Mechanical &	
Aeronautical	Mechanical Engineering is the study, design, control and application of mechanics, specifically for
Engineering.	machines such as engines. Aeronautical Engineering uses similar principles, specifically for aircrafts
Mining & Metallurgical	Mining engineering applies science and technology to the extraction of minerals from the earth.
Engineering	Metallurgical engineering deals with the processes used to extract metals from their ores, purify,
	alloy, and create useful objects from metals
9. ENVIRONMENTAL	· ·
	nts, process and preservation of nature and looks at human interactions with the environment, in
interest to solve complex	·
Biological Control	is the intentional use of a specific organism or their metabolic by-products to limit the harmful impact of an invasive species
Bioremediation	is the waste management technique that involves the use of organisms to remove or neutralize pollutants from a contaminated site
Ecology	is the branch of biology that deals with the relations of organisms to one another and to their physical surroundings, including biodiversity
Environmental Management	is the management of the interaction and impact of human activities on the natural environment.
Sustainable	is defined as a process of meeting human development goals while sustaining the ability of systems
Development	to continue to provide the natural resources and ecosystem services upon which the economy and society depends
Sustainability	is the systematic approach to finding practical ways for saving water, energy, and materials, as well as
	reducing negative environmental impacts
10. MATHEMATICS (	
	tructures, space and change. Statistics is the branch of mathematics that deals with the collection,
	and presentation of numerical data. Probability is the mathematical representation of the likelihood of
an event occurring.	the study of the properties and relationships of abstract antities (such as complex numbers matrices
Algebra	the study of the properties and relationships of abstract entities (such as complex numbers, matrices, sets, vectors, groups, rings, or fields), arithmetically using symbols e.g. $x$ , $y$ , $\pi$ . These symbols
премі а	represent numbers and quantities in formulae and equations in order to solve them
Game Theory	is the branch of applied mathematics that provides the tools for the analysis of strategies for dealing
	with competitive situations where choices are required
Geometry	the area of mathematics relating to the study of space. It Involves the measurement (shape and size),
Geometry	properties, and relationships of points, figures, spaces, lines, angles, surfaces, and solids
Number Theory	is the study of the set of whole numbers where the main goal is to discover interesting and
,	unexpected relationships between sets of numbers, for example the Fibonacci Sequence
Statistics and	Statistics is concerned with collecting, organising, analysing, interpreting and presenting data.  Probability is the study of chance i.e. calculating the likelihood or "odds" of something happening in
Probability	the future, and can be expressed as a fraction, decimal or percent
11. PLANT SCIENCES	
The study of plants.	(I-MA)
, , ,	is the study of plants that grow in an aquatic environment (freshwater or saltwater), whether rooted
Aquatic Plants	or floating, including the study of algae (Phycology)
Datama	is the scientific study of the behaviour, structure, physiology, taxonomy, distribution of plants, and
Botany	plant pathology
	is the study of genetic variation, genes and heredity in plants, specifically mechanisms of hereditary
Plant Genetics	transmission and variation of inherited characteristics. How plant genetics affect characteristics /
	morphology of the plant

Plant Pathology	is the study of the organisms and environmental conditions that cause disease in <i>plants</i> , the mechanisms by which this occurs, the interactions between these causal agents and the <i>plant</i> (effects on <i>plant</i> growth, yield and quality), and the methods of managing or controlling <i>plant</i> disease
Plant Physiology	is the study of the physical, chemical and biological functioning of plants
12. PHYSICS, ASTRO	NOMY AND SPACE SCIENCES (PHY)
	atter, energy, motion and forces. Astronomy and Space Sciences is the study of the universe and beyond, the properties of objects in space.
Astronomy and Space Sciences	is the study of the Universe and beyond, including its origins and the properties of objects in space
Material Sciences	is the scientific study of the properties and applications of materials of construction or manufacture (such as ceramics, metals, polymers, and composites)
Matter and Materials	is the study of the property of the different phases of matter and their macroscopic properties which includes topics such as super-conductivity, semi-conductors, thin films and complex fluids
Mechanics	is the branch of science that explains how masses behave when subjected to the effects of force and displacement. It includes Kinematics, Projectiles, Velocity and acceleration, Newton's Laws, Collisions, Rotational Motion and Fluid Mechanics
Mechatronics and Robotics	integrates electronics, control and mechanics in the study and design of electromechanical systems, such as robots, to solve problems
Optics	is the study of a part of the electromagnetic spectrum (specifically the infrared, visible, and ultraviolet light) as well as the devices used to measure, detect and produce this spectrum, for example photometers and lasers
Theoretical Physics	is the description of natural phenomena in mathematical form
13. SOCIAL SCIENCE	S (SOC)
A branch of science that within society.	deals with the study of humans; their behaviour, interpersonal relationships, institutions and functioning
Anthropology	is the study of people, their evolutionary history; as well as how they behave and adapt to different environments; communicate and socialise with one another
Education Studies.	Education is the process of facilitating learning, or the acquisition of knowledge, skills, values, beliefs, and habits. Education Studies looks at ways to promote the analytical, critical and logical aspects of learning, leading to overall growth and development of an individual. Educational methods include elearning, inquiry based learning, discovery learning, storytelling, discussion etc. Studies include a focus on the various teaching and learning pedagogies. Research in this field includes the types, uses and efficacy of various educational resources including manipulatives such as geoboards, blocks to illustrate shape and space, tangrams etc.
Human Behaviour	relates to how humans act and interact based on factors such as culture, tradition, values, and attitudes, etc. It looks at human interpersonal relationships and interactions
Human Settlements.	Ekistics is the study of the various types of human settlements, including regional, city, community planning and dwelling design. This study draws from the vast areas of geography, ecology, human psychology, anthropology, culture, and aesthetics. Settlements can be as small as one house or large as a megacity
Psychology	is the study of the mind and our behaviour. It integrates science, theory, and practice in order to understand, predict and relieve problems whilst promoting adaption, and personal development. There are a number of fields of psychology such as Clinical psychology, Child psychology and Developmental psychology, Cognitive psychology, Social psychology and Educational psychology