

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Generic Program Educational Objectives (PEOs are employability attributes and selling points of your program) for **FSG Diploma Programs**. The sentences begin with Three to five years upon completing the program, our graduates will be:

1. semiprofessionals in applied sciences who analyze and apply the knowledge, understanding and laboratory experiences to provide quality products and services to the government agencies and science-related industries.
2. semiprofessionals in applied sciences who lead and engage in teams in problem solving tasks across disciplines through effective communicative abilities
3. semiprofessionals in applied sciences who continue to advance their knowledge and abilities by utilizing ICT to explore business opportunities in the science-related industry
4. semiprofessionals in applied sciences who practice ethical and professional values in providing services to the recipients and provider of the science-related industry

Generic Program Educational Objectives (PEOs are employability attributes and selling points of your program) for **FSG Degree Programs**. The sentences begin with Three to five years upon completing the program, our graduates will be:

1. scientists who synthesize and apply the knowledge, understanding and laboratory experiences to provide quality products and services to the government agencies and science-related industries locally and globally.
2. scientists who lead and engage in teams in problem solving tasks across disciplines through effective communicative abilities
3. scientists who continue to advance their knowledge and abilities by utilizing ICT to explore business opportunities in the science-related industry locally and globally.
4. scientists who practice ethical and professional values in providing services to the recipients and provider of the science-related industry locally and globally.

Generic Program Educational Objectives (PEOs are employability attributes and selling points of your program) for **FSG Masters Programs**. The sentences begin with Three to five years upon completing the program, our graduates will be:

1. scientists who make judgment by applying the knowledge, understanding and laboratory experiences to provide quality research, and services to the government agencies, education sectors, research organizations and science-related industries locally and globally.
2. proficient scientists who lead and engage in research teams to explore solutions to problems and contributes new knowledge within and across disciplines through effective communicative abilities
3. capable scientists who continue to advance their knowledge, understanding and abilities by utilizing ICT to create business opportunities for the education sectors, research organizations and science-related industries locally and globally
4. experienced scientists who practice ethical and professional values in providing services to the recipients and providers of the education sectors and research organizations in the science-related industry locally and globally.

## PROGRAM OUTCOMES (POs)

Generic Program Outcomes (POs are what graduates will know and be able to do) for **FSG Diploma Programs**. The sentences begin with

Upon completing the program, our graduates will be:

1. Able to apply and acquire knowledge and understanding of laws, theories and principles of science and mathematics.
2. Able to safely prepare sample and operate a range of machineries and laboratory equipments.
3. Able to conduct experiments, process, interpret and analyze experimental data.
4. Able to apply the scientific reasoning in solving authentic problems.
5. Able to verbally communicate scientific ideas with experts and non-experts.
6. Able to articulate scientific investigations in written form.
7. Able to effectively engage in a multidisciplinary team.
8. Able to apply values, ethics, morality and professionalism in their scientific pursuit.
9. Able to manage information and engage in life-long learning.
10. Able to apply managerial and entrepreneurial skills.
11. Able to demonstrate leadership skills.

Generic Program Outcomes (POs are what graduates will know and be able to do) for **FSG Degree Programs**. The sentences begin with

Upon completing the program, our graduates will be:

1. Able to analyze problems by applying and acquiring knowledge and understanding of laws, theories and principles of science and mathematics.
2. Able to safely prepare sample and operate a range of machineries and laboratory equipments.
3. Able to identify problems, design an investigation or experiment, process and interpret the experimental data and critically analyze and defend the conclusion.
4. Able to apply the scientific reasoning in solving authentic problems.
5. Able to verbally argue and communicate scientific ideas with peers, colleagues and the public.
6. Able to articulate scientific ideas and investigations in written form.
7. Able to effectively engage in a multidisciplinary team locally and globally.
8. Able to apply values, ethics, morality and professionalism in their scientific pursuit.
9. Able to manage information and engage in life-long learning.
10. Able to apply managerial and entrepreneurial skills.
11. Able to demonstrate leadership skills.

Generic Program Outcomes (POs are what graduates will know and be able to do) for **FSG Masters Programs**. The sentences begin with

Upon completing the program, our graduates will be:

1. Able to synthesize problems by applying, generating and acquiring knowledge and understanding of laws, theories and principles of science and mathematics.
2. Able to safely prepare sample, operate, diagnose and modify laboratory equipments.
3. Able to identify problems, design experiments, analyse and form a justified conclusion from experimental data.
4. Able to apply the scientific reasoning in solving authentic problems.
5. Able to verbally express, argue, justify and articulate scientific ideas effectively.
6. Able to express, argue, justify and articulate scientific ideas in written form.
7. Able to effectively work in a multidisciplinary team.
8. Able to apply values, ethics, morality and professionalism in their scientific pursuit.

9. Able to manage information and engage in life-long learning.
10. Able to apply managerial and entrepreneurial skills.
11. Able to demonstrate leadership skills.