ASSESSMENT PORTFOLIO

SC1153: INTRODUCTION TO BIOTECHNOLOGY

Name: Kariyawasam M.G.V.J
HS25510286

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New Kandy Road
Malabe

Batch 11: July 2025

ABSTRACT

Throughout the “Introduction to Biotechnology” Module, I have completed six assignments, which helped me to be professional and acquire and improve academic and soft skills which is essential for our career. This module guided me through lot of challenges and improved my skills such as leadership skills, presenting skills, communication skills etc. In the first assignment about how biotechnology impact on agriculture, I was able to improve presenting skills, Research skills and leadership skills. In the second assignment about new inventions of pharmaceutical biotechnology, I gained some important skills as Research skills, Video editing skills, Presenting and leadership skills and time management skills as well as to work efficiently and also I learned to work under pressure. Third assignment was the debate about eugenics helped me to improve my debating skills, Researching skills and time management. The fourth assignment, which is a caver letter and a CV, it improved my creativity and organizing skills and how to create a professional CV and a cover letter and gained the confidence to create and appreciate my own achievements. Assignment five was about my career trajectory inspired by Dr. Bandula Wijay who is very inspiring. Assignment taught me to set my early goal while planning for the future in short term, mid term and long-term. It improve my creativity, researching skills and really inspired me to do well in BSc (Hons) in Biotechnology and finally overall module helped to motivate me to achieve my goals gain a lot of knowledge about biotechnology and its fields gain the confidence to present seamlessly and gain professionalism.

ACKNOWLEDGEMENTS

I'D LIKE TO EXTEND MY SINCERE GRATITUDE TO EVERYONE WHO SUPPORTED THE CREATION OF THIS PORTFOLIO. A SPECIAL NOTE OF THANKS IS RESERVED FOR PROF. SHRIYANI PEIRIS AND PROF. COLIN PEIRIS, WHOSE GUIDANCE WAS INSTRUMENTAL IN THE DEVELOPMENT OF THIS WORK.

I AM ALSO PROFOUNDLY GRATEFUL TO MY FRIENDS AND FAMILY FOR THEIR UNWAVERING ENCOURAGEMENT AND SUPPORT WHICH DEDICATED ME AND CONSISTENT SOURCE OF MOTIVATION THROUGH OUT THE PROJECTS

AND TO EVERYONE ELSE WHO HELPED IN ANY WAY, BIG OR SMALL, THANKYOU. YOUR SUPPORT MEANT EVERYTHING.

CONTENTS

OBJECTIVES

- ASSIGNMENT ONE;

ANALYZING HOW BIOTECHNOLOGY IMPACT ON AGRICULTURE AND RESEARCHING OF THE CURRENTLY AVAILABLE TRENDS AND TECHNIQUES IN AGRICULTURE HOW BIOTECHNOLOGY TRANSFORM THE AGRICULTURE WHILE ENSURERING THE FOOD SECURITY. AND REALY IMPROVED THE RESEARCHING SKILLS, PRESENTING SKILLS WE HAD TO DO RESEARCH VERY DEEPLY TO CONFIREM THE TECHNOLOGIES ARE REALY EXCISTING AS WELLS AS THE COMPATIBILITY WITH THE PRACTICLE WORLD

- ·ASSIGNMENT TWO

COLLOBARATE TO EXPLORE A TOPIC AND A NEWLY DISCOVERED PHARMACEUTICAL APPLICATION AND DID A THROUGH RESEARCH WHICH REALY IMPROVED THE TEAM WORK PRESENTING SKILLS AND VIDEO EDITING SKILLS. WHICH WILL HELP MY CAREER A LOT.

- ·ASSIGNMENT THREE

DISCUSSED ETHICAL TOPICS IN BIOTECHNOLOGY WHILE DEBATING ABOUT THE NEGATIVE AND THE POSITIVE POINTS ABOUT THOSE ETHICALLY CONTROVERSIAL TOPICS WHICH WE ENJOYED REALLY WELL AND WANTED TO DO ANOTHER DEBATE WHICH WE IMPROVED DEBATING AND PUBLIC SPEAKING SKILLS

- ·ASSIGNMENT FOUR

DEVELOPED A COVER LETTER AND A CV WHICH WE HAD TO DO A RESEARCH AND REALLY EXCITED TO DO ITS LIKE A INVESTMENT FOR THE FUTURE THAT IMPROVED MY CREATIVE THINKING AND CREATIVITY

- ·ASSIGNMENT FIVE

REFLECTED ON CAREER PROMOTING CAREER GOALS AND SELF AWARENESS AND MOTIVATES ME TO ACHIEVE THOSE AND VISION TO FOLLOW

- ·ASSIGNMENT SIX

COMPILE ASSIGNMENTS, HIGHLIGHTING THE ACQUIRED SKILLS ACHIEVEMENT WHICH IS A REAL JOURNEY OF OTHER FIVE ASSIGNMENTS IMPROVED MYSELF AND SUMMARIZING THE LEARNING JOURNEY

ASSIGNMENT ONE

DESCRIPTION

IN THE ASSIGNMENT ONE WE WERE GIVEN THE TOPIC AGRICULTURAL BIOTECHNOLOGY WHICH WAS THE FIRST GROUP ASSIGNMENT. WE PRESENTED THE TECHNOLOGIES AND THE IMPACT ON THE ENVIRONMENT UNDER THE TOPIC “PLANTREPRENEURS” A DOCUMENT WAS GIVEN WITH THE GUIDANCE AND THE EVOLUATION CRITIRA . THE GROUP GOT TO CHOOSE THE TITLE FOR THE PRESENTATION. REFERENCES HAS TO INCLUDE IN APA STYLE. EACH PRESENTER WHICH HAS TO PRESENT 2 MINUTES AND FOR THE GROUP WITH THE TOTAL PRESENTING TIME HAS TO BE 15 MINUTES. TITEL OF THE PRESENTATION GROUP NUMBER AND THE REGISTRATION NUMBERS OF EACH GROUP MEMBERS HAS TO BE INCLUDE IN THE PRESENTING ODER IN THE COVER PAGE. BODY OF THE PRESENTATION SHOULD CONSIT OF THE AREARS WE DISCUSS AND THE CONCLUSION SHOULD BE CONSIST WITH THE PRODUCTIVITY, IMPACT OF THE APPLICATION OUR OPINION OF EACH APPLICATION. THE DEAD LINE FOR THE ASSIGNMENT WAS 3RD OF JULLY 2025

PLANTREPRENEURS 2.0

Presented by: Group 8

Kariyawasam M.G.V.J-HS25510286
Seneshi R.G.N-HS25510288
Herath H.M.V.V.G -HS25510285
Mahiti M.H.M.C.N.L-HS25510290
Jayaweera J.M.C.K.-HS25510289
Sankalpa W.A.D-HS25510287

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OVERVIEW

2

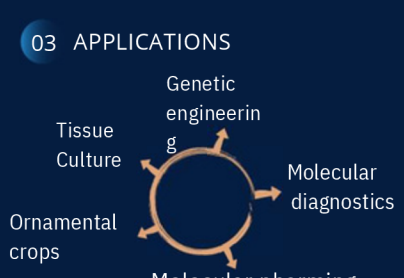
01 INTRODUCTION

Innovating from root to shoot

Plant agriculturebiotechnologyapplies advanced sciences like geneticengineering,geneeditingand tissue culture to develop crops that are stronger, more nutrious , and environmentally sustainable.

3

03 APPLICATIONS



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Genetic Engineering

- Genetic engineering is a major part of agricultural biotechnology
- It is widely used to improve the yield, resilience and nutritional quality of crops and livestock
- Key uses of genetic Engineering

1. Crop improvement
2. Nutritional enhancement
3. Extended shelf life and many more

5

Plant molecular Diagnosis

Plant molecular diagnostic means using special scientific methods to find diseases, and genetic traits by checking their DNA, RNA or proteins

1. ELISA (Enzyme-linked immunosorbent Assay)
2. Lateral Flow assay
3. PCR (Polymerase Chain Reaction)
4. DNA Barcoding

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ASSIGNMENT ONE

REFLECTION

IT WAS REALY A JOURNEY AS WE HAD TO WORKED AS A TEAM AND GOT TO KNOW THE MEMBERS AND WHICH CREATED A BOND AND GOT THE BATCH TOGETHER THANKS TO PROF. SRIYANI PERIES. IMPROVED THE CONFIDENCE BY A LOT TO PRESENT IN PUBLIC WITHOUT TAKING ANY NOTES. AS A GROUP WE CREATED A FINE PRESENTATION COLLABORATIVELY MIXING THE IDEAS AND THOUGHTS OF EVERY ONE IN THE GROUP. FOR THE PRESENTATION WE CREATED WITHOUT ANY RESTRICTIONS. THAT HELPED TO IMPROVE CREATIVITY. IT HELPED TO IMPROVE THE KNOWLEDGE ABOUT THE IMPACT ON AGRICULTURE, CURRENT ADVANCEMENTS APPLICATIONS AND INSPIRED US TO RESEARCH ABOUT IT.

IF GIVEN THE CHANCE TO UNDERTAKE THIS ASSIGNMENT AGAIN,I WOULD FOCUS IN THE SAME TOPIC SELECTING A NARROWER SUBTOPICS AND MODERN APPLICATIONS AND MORE INDEPTH ANALYSIS. AND I WOULD ALSO USE THE FEEDBACK FROM PEERS DURING THE DRAFTING PROCESS. ULTIMATELY PRODUCING A MORE EFFECTIVE FINAL PRESENTATION

ASSIGNMENT TWO

DESCRIPTION

GROUP VIDEO PRESENTATION ON SELECTED AREA OF BIOTECHNOLOGY DESCRIPTION

IN THE SECOND ASSIGNMENT, A GROUP PRESENTATION HAD TO BE DONE ON SELECTED AREA OF BIOTECHNOLOGY. WE WERE GIVEN THE NEWLY DISCOVERED PHARMACEUTICAL APPLIANCES. THERE WERE SIX MEMBERS OUR GROUP AS A GROUP WE CHOSE LYBMELDY AS A NEWLY DISCOVERED DRUG THAT HELPED TO CURE A REAR DISEASE. PRESENTATION SHOULD BE COMPLETED WITH IN 15 MINUTES, WITH TWO MINUTES ALLOCATED TO EACH GROUP MEMBER. THE PRESENTATION WAS DELIVERED ON 23RD JULY 2025

PLANTREPRENEURS 2.0

Presented by: Group 8

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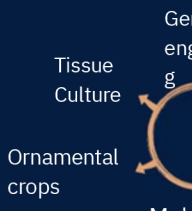

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ASSIGNMENT TWO

REFLECTION

WORKING ON THE GROUP PRESENTATION ABOUT PHARMACEUTICALS WAS A EXPERIENCE THAT ALLOWED ME DEEPEN MY UNDERSTANDING OF THIS CRITICAL AREA IN BIOTECHNOLOGY. I LEARNED HOW PHARMACEUTICALS TRANSFORM THE WORLD BY DISCOVERING NEW DRUGS ALTHOUGH THE INITIAL COST IS SO HIGH, LYBMELDY IS WHAT WE CREATED THE VIDEO OF IS THE ONE OF THE MOST EXPENSIVE DRUG CURRENTLY EXISTS ITS COST IS LIKE $ 4.25 MILLION
IF I WERE TO DO THIS ASSIGNMENT AGAN,I WOULD ALLOCATE MORETIME FOR PREPARATION AND PRACTICE.I WOULD ALSO ENCOURAGE MORE INTERACTIVE ELEMENTS IN THE PRESENTATION, SUCH AS ENGAGING THE AUDIENCE WITH QUESTIONSOR DISCUSSIONS TO FOSTER GREATER PARTCIPATION

ASSIGNMENT THREE

DESCRIPTION

IN THE THIRD ASSIGNMENT, A DEBATE ON ETHICAL ISSUES AND CONTROVERSIAL TOPICS ABOUT BRANCHES OF BIOTECHNOLOGY WAS CONDUCTED. OUR DEBATE WAS CONDUCTED UNDER THE TOPIC OF 'NEGATIVE SIDE OF EUGENICS ' OUR THEME FOCUSED ON THE ETHICAL ISSUES OF MASS GENOCIDES, DESIGNER BABIES, AND HUMAN TRAFFICKING. IT WAS A GROUP ASSIGNMENT, AND MY TEAM MEMBERS WERE MS. NICOL SENESHI, MS. CHAMATHKA MAHITI, MS. VIHANSA VANSANDI, MR. CHIRAN JAYAWEERA, AND MYSELF. I HELD THE POSITION OF THE TEAM LEADER OF THE DEBATE TEAM WHILE OTHER MEMBERS CARRIED OUT THE SPECIFIC ROLES. THE DEBATE WAS PRESENTED ON 22ND AUGUST 2025

ASSIGNMENT THREE

REFLECTION

THE THIRD ASSIGNMENT, WHICH INVOLVED CONDUCTING A DEBATE ON THE ETHICAL ISSUES SURROUNDING THE APPLICATIONS OF THE BIOTECHNOLOGY, WAS A TRANSFORMATIVE EXPERIENCE AND WELL ENJOYED THOSE FEW MINUTES I LEARNED ABOUT THE VARIOUS ETHICAL DILEMMAS AND REALLY POSITIVE SIDE OF SOME CONTROVERSIAL TOPICS. THIS ASSIGNMENT SHOWED THE IMPORTANCE OF ETHICAL CONSIDERATION IN BIOTECHNOLOGICAL PRACTICES AND HOW IMPACT ON THE SOCIETY. I DEVELOPED MY COMMUNICATION SKILLS, LEARNING HOW TO ENGAGE AN AUDIENCE AND DEVELOP DISCUSSION EFFECTIVELY. COLLABORATING WITH MY TEAM MEMBERS, WHO TOOK ON ROLES AS SPECIALISTS AND ADVOCATES, ALLOWED ME TO SEE DIVERSE PERSPECTIVES AND THE IMPORTANCE OF ADDRESSING ETHICAL ISSUES IN A BALANCED MANNER.

IF I WERE TO REDO THIS ASSIGNMENT, I WOULD DO THE DEBATE WITH OUT PRIOR COLLECTED INFORMATION, JUST WITH PREPARING IN TWO MINUTES FINDING THE POINTS.

ASSIGNMENT FOUR

DESCRIPTION

FOR THE FOURTH ASSIGNMENT, I WORKED INDIVIDUALLY ON A RESUME, A COVER LETTER FOR MY FIRST CAREER OPPORTUNITY, THE RESUME INCLUDED BOTH MY CURRENT AND PAST ACTIVITIES, COVERING WORK-RELATED AND EXTRACURRICULAR EXPERIENCES. I CREATED A COVER LETTER FOR A SCIENTIST IN PROCESS MICROBIOLOGY AT THE ARLA FOODS INGREDIENTS. THE DEADLINE TO UPLOAD THE RESUME AND THE COVER LETTER WAS 29TH OF AUGUST 2025

Vanuja Kariyawasam

4/12B Hirimbura Cross Road

Galle

80000

Email: janajithkariyawasam@gmail.com

26.082025

Human Resource Manager

Arla Foods Ingredients

Innovation Centre

Videbæk, Denmark

Dear Manager

Application for Scientist – Process Microbiology

I eagerly anticipate becoming part of Scientist in the Process Microbiology Group at Arla Foods Ingredients. With a Biotechnology degree of BSc(Hons), I have a good grounding in microbiology and industrial food processes. I am motivated by the opportunity to be able to share my knowledge with your advanced R&D facilities and help drive AFI's vision to become the global leader for value-added whey.

MY education has provided me with a strong grounding in micro biology, molecular biology and genetics. And as an intern, I have experience covering microbiological research, lab testing, and industrially-driven projects, both theoretical experience and hands-on laboratory experience. And industrial food microbiology experience, where I interfaced heavily with Quality and Production departments to offer safe, consistent, and efficient processes. My experience includes:

• Microbiological risk assessment and trouble-shooting in dairy and ingredient manufacturing facilities.

• Laboratory experimentation and method development, with utilization of microbiological and molecular techniques for monitoring and optimizing product safety and stability.

• Process-oriented trouble-shooting, with interest in operations such as membrane filtration, chromatography, and drying operations for powder-based ingredients.

• Cross-functional collaborations, having worked with supply chain, quality, and external research partners to translate R&D findings into production-level gains.

I thrive in team-based environments yet remain capable of leading independent projects. Encouraging collaboration between departments and harmonizing research and production matters most to me. I am also interested in exploring and experimenting with new analysis methods on a continuous basis that can further advance AFI's proficiency in food safety and quality assurance.

Vanuja jananajith kariyawasam

Biotechnology undergraduate

About Me

I am a Biotechnology student with well gained expiriences in laboratory and accodemics.i can manage work loads very well as im a sports person as well as a graduate with high GPA

Contact

+94-766004315

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4/12B Hirimbura Cross road
Galle

Skills

- researcher
- good analytical skills
- Well Experienced in laboratory

Language

- English
- Sinhala

Objective

- PhD-qualified molecular scientist with exceptional analytical acumen and hands-on expertise in designing and executing advanced laboratory experiments. Equipped with a robust foundation in molecular techniques— from PCR to data interpretation— I excel at troubleshooting complex protocols, ensuring experimental rigor, and generating reliable results. Driven by curiosity and precision, my objective is to apply my doctoral-level skills and scientific insight to contribute meaningfully to innovative research initiatives in molecular science.

Education

(2025 -2029)

Sri Lanka Institute of Information Technology

Bachelor of Biotechnology

(2021 -2024)

Mahinda College

A/Ls

1C, 2S

O/Ls

6As,2B,1C

ASSIGNMENT FOUR

REFLECTION

FOUTH ASSIGNMENT WHICH INVOLVED CREATING A RESUME AND COVER LETTER FOR A SCIENTIST PROCESS MICROBIOLOGY AT AT THE ARLA FOODS INGREDIENTS, WAS IMPORTANT OPPORTUNITY FOR PERSONAL AND PROFESSIONAL GROWTH. THIS ASSIGNMENT TAUGHT ME THE IPORTANCE OF EFFECTIVELY SHOWCASING MY SKILLS AND EXPERIENCES TO POTENTIAL EMPLOYERS. ALSO WRITING THE COVER LETTER FURTHER EMPHASIZED THE NEED FOR TAILORED COMMUNICATION

THROUGH THIS PROCESS, I DEVELOPED MUCH NEEDED SKILLS SUCH AS SELF PRESENTATION, PROFESSIONAL WRITING SKILLS WHICH WILL IMPORTANT TO MY CAREER.

ASSIGNMENT FIVE

DESCRIPTION

THE OUTLINED CAREER TRAJECTORY AIMS TO CREATE A SCIENTIFIC ENTREPRENEUR AND LEADER IN GENETIC ENGINEERING, CULMINATING IN A DOCTORATE (PHD) TO EFFECTIVELY BRIDGE CUTTING-EDGE RESEARCH WITH INDUSTRIAL APPLICATIONS FOR IMPROVED GLOBAL HEALTH AND FOOD SECURITY. PREPARING THIS ROADMAP OFFERS THE ADVANTAGES OF PROVIDING CLARITY AND FOCUS FOR ALL PROFESSIONAL DEVELOPMENT, ALLOWING FOR THE STRATEGIC ACQUISITION OF ESSENTIAL TECHNICAL SKILLS (LIKE MOLECULAR TECHNIQUES AND TROUBLESHOOTING) AND SOFT SKILLS (LIKE PROJECT MANAGEMENT AND COLLABORATION). FURTHERMORE, BASING THIS AMBITIOUS PATH ON THE EXAMPLE OF A SUCCESSFUL INNOVATOR, SUCH AS DR. BANDULA WIJAY, SERVES AS A CRITICAL SOURCE OF INSPIRATION AND MOTIVATION, VALIDATING THE POTENTIAL TO TRANSITION FROM ACADEMIA TO IMPACTFUL ENTREPRENEURSHIP THAT BENEFITS MILLIONS OF LIVES.

CAREER TREJECTORY

Guidingmypath inentrepreneurship

Inspired by Dr.Bandula Wijay

KARIYAWASAM M.G.V.J-

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BANDULA WIJAYARATHNA

- BandulaWijerathneisaSri Lankaninventor, businessman, entrepreneur and diplomat who lives in the USA
- In India 1967 to complete a degree in chemical engineering. In 1974, he got the opportunity to pursue higher studies at the University of Southern California where he completed a master's degree in chemical engineering
- Later, he completed his doctorate in chemical engineering from the University of Southern California
- In 1984, he started his entrepreneurial career, Wijay along with Dr. Paolo Angelini of the Texas Heart Institute, developed the angioplasty balloon catheter system along with the coronary artery perfusion pump system to be used during angioplasty

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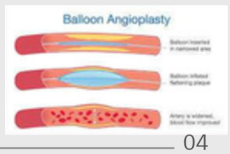
- 2013-2016: VISITING INSTRUCTOR OF BIOENGINEERING AT THE University of Houston(Victoria)
- 2016-2019: Advisor, TMCX
- 2016: Advisor, OPEN Entrepreneurship Network
- 2017: Honorary Professor of Clinical Medicine at the Kotelawala Defense University.

03

3

ACHIEVEMENTS

- president of LeoMed LLC
- inventor of the "Nested Loop" vascular stent, which is used globally to treat stenotic arteries
- coronary artery perfusion pump system to be used during angioplasty.
- MSc in chemical engineering and MSc in mechanical engineering (University of Southern California)
- doctorate in chemical engineering from the University of Southern California



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4

WORLD RECOGNITIONS

- 1995: Entrepreneur of the year, by Merrill Lynch
- 1998: Business Professional of the Year from the South Asian Chamber of Commerce
- 2004: Lifetime Achievement Award from the Sri Lanka Foundation
- 2016: Lifetime Achievement Award from Maithripala Sirisena, President of Sri Lanka
- 2017: Vidya Jyothi Award
- 2018: Ada Derana, Global Inventor award
- 2018: Global Citizen awardfrom the United NationsChapter in Houston, Texas

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5

MY CARRIER GOALS

SHORT TERM PLANS

- Maintaining batter grades for BSc (Hons) in Biotechnology
- Gaining Technical Proficiency by Identify specific lab techniques that I will master.
- Be and intern for 6 months (2029) Seek out and complete at least one, if not more, internships.
- Join relevant student chapters or professional societies like the BTSC

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ASSIGNMENT FIVE

REFLECTIONS

CREATING A CAREER TRAJECTORY PRESENTATION IMPROVED MY VISION IN THIS CURRENT DEGREE TO SET PROFESSIONAL GOALS WHILE ACHIEVING SHORTER MILE STONES. ALSO TO SET THE GOALS FOR LONG TERM MID TERM AND LONG TERM GOALS. IT WAS REALY HELPED TO SEE INTO THE FUTURE AND TO HAVE A INSPIRING MODEL ROLE TO REFLECT ON MY CAREER WHILE MOTIVATING ME TO CHASE HIGH GRADES.

THROUGH THIS PROCESS, I DEVELOPED ESSENTIAL SKILLS IN PROFESSIONAL WRITING AND SELF-PRESENTATION, WHICH WILL BE IMPORTANT FOR MY FUTURE CAREER. I ALSO GAINED INSIGHTS INTO THE HIRING PROCESS.

ASSIGNMENT SIX

DESCRIPTION

IN THE SIXTH ASSIGNMENT, AN ASSESSMENT PORTFOLIO WAS CREATED FOR ALL THE ASSIGNMENTS IN THE MODULE "INTRODUCTION TO BIOTECHNOLOGY." ADDITIONALLY, A PRESENTATION WAS MADE SUMMARIZING ALL THE ASSIGNMENTS FROM THE MODULE. THE DEADLINE FOR THIS ASSIGNMENT WAS 26TH SEPTEMBER , 2025.

ASSESSMENT PORTFOLIO

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CONTENTS

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OBJECTIVES

•ASSIGNMENT ONE:

Analyzing how biotechnology impact on agriculture and researching of the currently available trends and techniques in agriculture how biotechnology transform the agriculture while ensurering the food security. And realy improved the researching skills, presenting skills we had to do research very deeply to confirem the technologies are realy excisting as wells as the compatibility with the practicle world

- Assignment two

Collobarate to explore a topic and a newly discovered pharmaceutical application and did a through research which realy improved the team work presenting skills and video editing skills. which will help my career a lot.

- Assignment three

Discussed ethical topics in biotechnology while debating about the negative and the positive points about those ethically controversial topics which we enjoyed really well and wanted to do another debate which we improved debating and public speaking skills

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- ASSIGNMENT FOUR

Developed a cover letter and a CV which we had to do a research and realy excited to do its like a investment for the future that improved my creative thinking and creativity

- Assignment five

Reflected on career promoting career goals and self awareness and motivates me to achieve those and vision to follow

- Assignment six

Compile assignments, highlighting the acquired skills achievement which is a real journey of other five assignments improved myself and summarizing the learning journey

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ASSIGNMENT SIX

REFLECTION

THE SIXTH ASSIGNMENT, WHICH INVOLVED CREATING AN ASSESSMENT PORTFOLIO FOR ALL THE ASSIGNMENTS COMPLETED IN THE "INTRODUCTION TO BIOTECHNOLOGY" MODULE, WAS AN EXCITING EXPERIENCE FOR ME. COMPILING THE PORTFOLIO HELPED ME TO IDENTIFY THE DIVERSE SKILLS I DEVELOPED IN EACH ASSIGNMENT, FROM RESEARCH AND WRITING TO TEAMWORK AND PRESENTATION ABILITIES. IT PROVIDED A STRUCTURED WAY TO EVALUATE MY PROGRESS AND UNDERSTAND HOW EACH TASK CONTRIBUTED TO MY OVERALL UNDERSTANDING OF BIOTECHNOLOGY.

THROUGH THIS ASSIGNMENT, I LEARNED THE VALUE OF SELFREFLECTION
AND THE IMPORTANCE OF DOCUMENTING MY ACADEMIC JOURNEY. THIS PROCESS ALSO IMPROVED MY ORGANIZATIONAL SKILLS, AS I HAD TO ENSURE THAT ALL COMPONENTS WERE WELL-ORGANIZED AND PRESENTED WELL

CONCLUSION

THE "INTRODUCTION TO BIOTECHNOLOGY" MODULE HAS BEEN AN EXCELLENT LEARNING EXPERIENCE, PROVIDING ME WITH BOTH THE TECHNICAL AND SOFT SKILLS. I GAINED NEW INSIGHTS INTO CURRENT BIOTECHNOLOGICAL TRENDS, EXPLORED THE COMPLEXITIES OF BIOINFORMATICS AND LEARNED ABOUT THE THERAPEUTIC POSSIBILITIES FOR DISEASES LIKE PARKINSON'S. I ALSO IMPROVED MY UNDERSTANDING OF THE ETHICAL CHALLENGES IN AGED CARE BIOTECHNOLOGY, WHICH BROADENED MY PERSPECTIVE ON THE SOCIAL IMPLICATIONS OF SCIENTIFIC ADVANCEMENTS. BEYOND THE TECHNICAL KNOWLEDGE, THIS COURSE TAUGHT ME TEAMWORK, LEADERSHIP, COMMUNICATION, AND PROFESSIONAL WRITING SKILLS. I LEARNED THE VALUE OF COLLABORATION THROUGH GROUP PROJECTS, THE IMPORTANCE OF CLEAR COMMUNICATION IN SCIENTIFIC PRESENTATIONS, AND HOW TO PRESENT MYSELF PROFESSIONALLY THROUGH RESUMES AND COVER LETTERS. THE REFLECTIVE PROCESS, PARTICULARLY THROUGH THE FINAL PORTFOLIO ASSIGNMENT, SHOWED THE IMPORTANCE OF SELF-EVALUATION AND GROWTH.