



**College of Education for Pure Sciences – Biology Department (DBI)**

**Graduation Projects in in 2023-2024**

| No. | Supervisor name                     | Title of the project  | First student                | Second Student        |
|-----|-------------------------------------|---|------------------------------|-----------------------|
| 1   | Prof. Dr. Mohammed Saeed Faisal     | Effect of Ethephon on plant   | Lina Laith<br>Mohammed Tahir |                       |
| 2   | Prof. Dr. Mohammed Saeed Faisal     | Effect of Salicylic acid on plant   | Sara nafiaa Ayob             | A'ashaa Rakan Tawfeeq |
| 3   | Assist. Prof.Dr. Shifaa Mahdi Salih | Portulaca oleracea L: Its medical importance and in vitro culture   | Bassam Babeer<br>Ibraheem    |                       |
| 4   | Assist. Prof.Dr. Shifaa Mahdi Salih | Effect of Laser in plant tissue culture   | Dlnia Ibrahim<br>Rasheed     | Kadhim Ismael Aziz    |
| 5   | Prof Dr. Asmaa Abdul-Aziz Ali       | Zirconium oxide nanoparticles ZrO <sub>2</sub> and its effective role against parasites (Protozoa and helminthes) | Zainab Thamir<br>Abdulla     |                       |
| 6   | Prof Dr. Asmaa Abdul-Aziz Ali       | Effect of Pro-30 Max probiotic bacteria against infections with different types of parasites                      | Fahd Alyas Aziz              |                       |
| 7   | Prof Dr. Asmaa Abdul-Aziz Ali       | Use of Selenium nanoparticles against infections with different types of parasites                                | Shams Subhan Daak            |                       |
| 8   | Prof. Dr. Abdul-aziz Younis Talea   | Effect of plastic wastes on Environment   | Joseph Jalal Khaleel         |                       |
| 9   | Prof. Dr. Abdul-aziz Younis Talea   | Nitrogen oxides emissions to air  | Rokan Murad Khuder           |                       |
| 10  | Prof. Dr. Abdul-aziz Younis Talea   | Methods of sterilization of drinking water  | Luqaa Salih<br>Mohammed Ali  |                       |

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|-----|-----------------------------------|---|-------------------------|---------------------|
| 11  | Prof. Dr. Jamella Hazaa Rasheed   | Parasitism of Nematodes on plants   | Saja Farag Mohammed     |                     |
| 12  | Prof. Dr. Jamella Hazaa Rasheed   | Plasmids  | Rahma Nazar Abdul-Qader |                     |
| 13  | Prof. Dr. Jamella Hazaa Rasheed   | Mosaic diseases that caused by plant viruses  | Mohammed Abd Ali Khalaf |                     |
| 14  | Prof. Dr. Waffaa Mohamood Younis  | The awareness of the effects social media on mental health of students of biology department  | Fatma Ahmed Ali         | Sanna Adnan Ibrahim |
| 15  | Prof. Dr. Waffaa Mohamood Younis  | Academic dissatisfaction of biology department students in College of Education for Pure Sciences                                   | Omar Abdulla Khatab     |                     |
| 16  | Prof. Dr. Muthana Jasim Mohammed  | Matricaria chamomile and its cultivation  | Safana Thamir Hamid     |                     |
| 17  | Prof. Dr. Muthana Jasim Mohammed  | <i>Pimppinella anisum</i> plant : usefulness and medical uses   | Basma Ali Nooh          |                     |
| 18  | Prof. Dr. Muthana Jasim Mohammed  | Importance of Euginea Caryophyllus and its cultivation  | Atia Ali Hussein        |                     |
| 19  | Prof. Dr. Shimal Younis Abdulhadi | Acompany Fungus-insect  | Dhua Adnan Aziz         |                     |
| 20  | Prof. Dr. Shimal Younis Abdulhadi | Assessment of the activity of alkaloids extracted from Ganderoma sessile isolate having antimicrobial and antioxidant activities    | Mustafa Ali Mohsen      |                     |
| 21  | Prof. Dr. Shimal Younis Abdulhadi | Assessment of the activity of phenolic compounds extracted from Lentinus squarnasulus local isolate having antimicrobial activities | Mariyam Maher Hamza     |                     |

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|-----|---|--|-------------------------|----------------|
| 22  | Prof. Dr. Yousef Jabbar Isamael         | Effect of plant nutrient and Ph on growth of algae       | Huda Laith Ahmed        |                |
| 23  | Prof. Dr. Yousef Jabbar Isamael         | Use of Algae in water purification                       | Mohammed Mawaf Mohammed |                |
| 24  | Prof. Dr. Yousef Jabbar Isamael         | Toxins secreted from cyanobacteria                       | Ghufran Mazin Mohammed  |                |
| 25  | Prof. Dr. Hussein Saber Mohammed Ali    | Effect pollution on environment and human health         | Wassan Abdulla Ibrahim  |                |
| 26  | Prof. Dr. Hussein Saber Mohammed Ali    | Effect of cigrattes on environment                       | Mohammed Muhsen Qiitan  |                |
| 27  | Prof. Dr. Hussein Saber Mohammed Ali    | Effect of environmental pollution on antioxidants        | Maryam Mekdad Hamid     |                |
| 28  | Prof. Dr. Ammer Mohamood Taha           | Sense organs in fishes                                   | Amal Hammdon Malalah    |                |
| 29  | Prof. Dr. Ammer Mohamood Taha           | Apoptosis of cells                                       | Divon Laith Jameel      |                |
| 30  | Prof. Dr. Ammer Mohamood Taha           | Comparative anatomy study of digestive system of mammals | Ammar Ahmmed Taoma      |                |
| 31  | Prof. Dr. Qutiaba Shaeab Mohammed Sailh | Moringa plant and its medical benefits                   | Tammara Hisham Qasim    |                |
| 32  | Prof. Dr. Qutiaba Shaeab Mohammed Sailh | Aquiculture  | Layla Abbas Khuder      |                |
| 33  | Prof. Dr. Qutiaba Shaeab Mohammed Sailh | Antioxidants in medicinal plants                         | Ayat Farooq Waddalah    |                |

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|-----|---------------------------------------|---|------------------------------|-----------------|
| 34  | Prof. Dr. Najwa Ibrahim Khaleel       | Effect of bacterial infection on Immune response  | Zena Khamees Mahmood         |                 |
| 35  | Prof. Dr. Najwa Ibrahim Khaleel       | Bacterial biofilms : importance and harms   | Ayman Mohammad Ziyen         |                 |
| 36  | Prof. Dr. Najwa Ibrahim Khaleel       | Human bacteriome effect on human health and immunity  | Momen Alaa Hussein           |                 |
| 37  | Assist Prof. Dr. Aamer Mohsen Mahmood | Cellular Taxonomy of Fabaceae plants  | Duaa Bashar Mohammed         |                 |
| 38  | Assist Prof. Dr. Aamer Mohsen Mahmood | Molecular Classification  | Ahmed Ibraheem Jasim         |                 |
| 39  | Assist Prof. Dr. Aamer Mohsen Mahmood | Chemical taxonomy in Rosaceae   | Zahraa Ali Qasim             |                 |
| 40  | Assist Prof. Dr. Raad Hassani Sultan  | Down syndrome and Intellectual handicap   | Ghufran Sadii Aziz           |                 |
| 41  | Assist Prof. Dr. Raad Hassani Sultan  | Screening of Biofuel from some microalgae   | Noor Abdul Rahman Hammed     |                 |
| 42  | Assist Prof. Dr. Raad Hassani Sultan  | Genetic engineering   | Mohammed Abdul hafez Hussein |                 |
| 43  | Assist Prof. Dr. Mira Usama Ahmed     | Algal Biofertilization of wheat variety Sham-6  | Maryam Najm Abdulla          | Nadia Ali Fathi |
| 44  | Assist Prof. Dr. Mira Usama Ahmed     | Testing of new growing media for Cosmarium algae  | Balqees Salim Attalah        |                 |
| 45  | Assist Prof. Dr. Mira Usama Ahmed     | Developing the use of new algal antibiotic for pathogenic bacteria with interference with medical plant | Zainab Bashar Azeez          |                 |

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|-----|--|--|--------------------------|----------------|
| 46  | Assist. Prof . Dr. Maarb Mohammed Ahmed          | Life skills of Fourth class students in Biology Department   | Mohammed Riadah Dhanoon  |                |
| 47  | Assist. Prof . Dr. Maarb Mohammed Ahmed          | Real happiness and its relationship with self-assessment level for the fourth class students of Biology Department of College of Education for Pure Sciences | Dalal Ali Abudel-razzaq  |                |
| 48  | Assist. Prof . Dr. Maarb Mohammed Ahmed          | Level of Psychological happiness of 4 <sup>th</sup> class students in Biology Department   | Imad Majeed Hassan       |                |
| 49  | Assist Prof. Dr. Farah Subhi Salih               | Alkaloids  | Noor Ahmed Ikhadir       |                |
| 50  | Assist Prof. Dr. Farah Subhi Salih               | Water stress   | Ahmed Ghanem Sultan      |                |
| 51  | Assist Prof. Dr. Farah Subhi Salih               | Alleopathy   | Sahar Hashim Sultan      |                |
| 52  | Assist Prof. Dr. Ibrahim Khaleel Ibrahim         | The economic importance of some scale insects and methods of their control   | Sarab Abdul-Aziz Azzat   |                |
| 53  | Assist Prof. Dr. Ibrahim Khaleel Ibrahim         | The economic importance of some soft scale insects and methods of their control  | Maryam Sayl meshal       |                |
| 54  | Assist Prof. Dr. Ibrahim Khaleel Ibrahim         | Importance of fruit fly in embryonic studies and their control   | Hannen Saad Khalaf       |                |
| 55  | Assist Prof Dr. Baydaa Abdul-Aziz Mohammed Salih | Animal tissue culture and their different techniques   | Raghada Akram Majeed     |                |
| 56  | Assist Prof Dr. Baydaa Abdul-Aziz Mohammed Salih | Biopolymers and their relation to biology  | Shukria Saad-allah Jasim |                |
| 57  | Assist Prof Dr. Baydaa Abdul-Aziz Mohammed Salih | Bioinformatics and their Applications in Biology   | Hiyam Hussein Saed       |                |

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|-----|--------------------------------------|--|---------------------------|----------------|
| 58  | Assist Prof Dr. Raghad Nawaf Jerjees | Biosynthesis of IAA in plant growth                                | Ghiath Ahmed Refaae       |                |
| 59  | Assist Prof Dr. Raghad Nawaf Jerjees | Tissue cultures as sources of secondary metabolites                | Hannan Mazin Abdul hafeez |                |
| 60  | Assist Prof Dr. Raghad Nawaf Jerjees | Bacterial toxins   | Sakina Ziyad Mohamood     |                |
| 61  | Assist Prof Dr. Ibrahim Faris Ali    | Epdemological study of some parasitic protozoa causing diarrhoea   | Abdul-Rahman Bashar Hasan |                |
| 62  | Assist Prof Dr. Ibrahim Faris Ali    | Studying the epidemiological pathogenesis of trichomonas vaginalis | Roa Mohammed Akala        |                |
| 63  | Assist Prof Dr. Ibrahim Faris Ali    | Studying the epidemiological pathogenesis of Ascaris               | Ghufran Fahd Fadhel       |                |
| 64  | Assist Prof. Dr. Ghazwan Qasim Hasan | Cytogenetics   | Tamara Raad Istefanos     |                |
| 65  | Assist Prof. Dr. Ghazwan Qasim Hasan | Sex linked inherited diseases                                      | Israa Yousef Hamed        |                |
| 66  | Assist Prof. Dr. Ghazwan Qasim Hasan | Mitochondrial genetics in human                                    | Yousef Mohammed Hasan     |                |
| 67  | Assist Prod Dr. Hasan Faisal Hussein | Bacterial meningitis   | Saif Yahya Shahin         |                |
| 68  | Assist Prod Dr. Hasan Faisal Hussein | Autoimmune diseases  | Ridhah Mohammed Zaki      |                |
| 69  | Assist Prod Dr. Hasan Faisal Hussein | Bacteria causing urinary tract infections                          | Jalal Qasim Alyas         |                |

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| 70  | Assist Prof Dr. Sanabel Abdul-monem Abdul Majeed | Thalassemia   | Zakia Talal Hassan         |                |
| 71  | Assist Prof Dr. Sanabel Abdul-monem Abdul Majeed | Stem cells  | Basim Brijis Abdulla       |                |
| 72  | Assist Prof Dr. Sanabel Abdul-monem Abdul Majeed | Anatomical and histological study of eye structure of frog                                | Noor Hasan Taha            |                |
| 73  | Assist Prof Dr. Amal Abdulla Younis              | Autism disease  | Aveen Badrkhan Rasheed     |                |
| 74  | Assist Prof Dr. Amal Abdulla Younis              | Liver cancer  | Abdul-kareem Ahmed Hussein |                |
| 75  | Assist Prof Dr. Amal Abdulla Younis              | Thyroid gland cancer  | Sherfan Sharki Khairi      |                |
| 76  | Assist Prof. Dr. Banan Rakan Abdul-Aziz          | Effect of drugs on human nervous system   | Donya Yassir Saeed         |                |
| 77  | Assist Prof. Dr. Banan Rakan Abdul-Aziz          | Mouth ulcers  | Zina Younis Ahmed          |                |
| 78  | Assist Prof. Dr. Banan Rakan Abdul-Aziz          | Second type diabetes  | Lubna Thamir Mahmood       |                |
| 79  | Assist Prof Dr. Hannan Sadeeq Sadoon             | Leishmaniosis and methods of Diagnosis  | Yasmin Faisal Ghazi        |                |
| 80  | Assist Prof Dr. Hannan Sadeeq Sadoon             | Entamoeba Histolytica methods of Diagnosis  | Ayman Mohammed Shehab      |                |
| 81  | Assist Prof Dr. Hannan Sadeeq Sadoon             | Echinococcus granulosis parasite , hydatid cysts and the killing factors of Protoscolices | Ruqia Abdulla Ahmed        |                |

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|-----|--|--|--------------------------|--------------------|
| 82  | Assist Prof Dr. Mohammed Abdulla Mahmood | Helicobacter pylori  | Braa Bashar Mohamood     |                    |
| 83  | Assist Prof Dr. Mohammed Abdulla Mahmood | Corynebacterium diphtheriae                                      | Amani Meshaan Ali        |                    |
| 84  | Assist Prof Dr. Mohammed Abdulla Mahmood | Samonella typhi  | Zena Ali Yaseen          |                    |
| 85  | Assist Prof Dr. Bushra Dallli Hamad      | Hepatitis causes and treatment                                   | Asmaa Ali Mohammed       |                    |
| 86  | Assist Prof Dr. Bushra Dallli Hamad      | Typhoid fever causes and prevension                              | Ayman Sabah Ashoor       |                    |
| 87  | Assist Prof Dr. Bushra Dallli Hamad      | Cholera causes and prevension                                    | Fatma Ahmed Abdulwahid   |                    |
| 88  | Assist Prof Dr. Mohammed Arafat Mohammed | The most important bacteria causing burn and wound infections    | Rahma Ahmed Khaleel      | Aynas Alaa Abbas   |
| 89  | Assist Prof Dr. Mohammed Arafat Mohammed | The most important bacteria causing gingivitis and dental caries | Safa Zyad Mohammed       |                    |
| 90  | Assist Prof Dr. Mohammed Arafat Mohammed | The most important bacteria causing cholecystitis                | Nadia Abdul-Ghaliq Hadi  |                    |
| 91  | Lect Dr. Omiamia Adil Najim              | Effect of nanoparticles on Toxaplasma gondi                      | Reem Mahmood Abdul-Jawad |                    |
| 92  | Lect Dr. Omiamia Adil Najim              | Effect of Cordia myxa against Leishmaniosis                      | Abeer Essa Salih         |                    |
| 93  | Lect Dr. Omiamia Adil Najim              | Some parasites present in Fishes                                 | Hazim Ahussein Shaher    | Osma Ghazi Abdulla |
| 94  | Lec.Dr. Safaa Ismael Rasheed             | Effect of heavy metals on Bacteria                               | Nisreen Fatahallah Ahmed | Alaa Hussein Taha  |
| 95  | Lec.Dr. Safaa Ismael Rasheed             | Microbial contamination of Cellphones                            | Aaasha Omar Sowan        |                    |
| 96  | Lec.Dr. Safaa Ismael Rasheed             | Treatment with honey poison                                      | Marwa Hussein Sadallah   |                    |



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|-----|--|---|---------------------------------|------------------------------|
| 97  | Lec.Dr. Taha Abdul-Wahab Khamees       | Using photobioreactors for microalgae as biotechnological application in friendly buildings and establishments to environment | Seham Omar Ishael               |                              |
| 98  | Lec.Dr. Taha Abdul-Wahab Khamees       | Green hydrogen production by using algae as new re-newable energy   | Sara Saad Abdul-Salam           | Mohammed Ahmed Toama         |
| 99  | Lec. Dr. Nawar Talal Hamid             | Bacteria causing food poisoning   | Bushra Hussein Ali              |                              |
| 100 | Lec. Dr. Nawar Talal Hamid             | Escherchia coli   | Ibtihal Ali Khlaef              |                              |
| 101 | Lec. Dr. Nawar Talal Hamid             | Enterobacter cloacae  | Ghufran Aamer Naktel            |                              |
| 102 | Lec. Dr. Nawar Talal Hamid             | Bacteria causing nosocomial infections  | Abdul-Kareem Ammar Abdul-Kareem |                              |
| 103 | Lec Dr. Rana Khalid Ahmed              | Biofilms and their benefits for bacteria that produce them  | Rahma Ammar Salim               |                              |
| 104 | Lec Dr. Rana Khalid Ahmed              | Nosocomial bacteria and their pathogenic effects  | Mahdi Ali Haider                |                              |
| 105 | Lec Dr. Rana Khalid Ahmed              | Virulence factors and their role in disease aggrvation  | Thikra Meshal Ahmed             | <b>Hind Hussein Ibraheem</b> |
| 107 | Lec. Dr. Mohammed Abdil-Allah Mohammed | Mycobacterium Tuberculosis  | Ahmed Mahmood Hashim            |                              |
| 108 | Lec. Dr. Mohammed Abdil-Allah Mohammed | Antibiotics   | Zaid Abdul-Wahab Osman          |                              |
| 109 | Lec. Dr. Mohammed Abdil-Allah Mohammed | Transfer of bacteria from the use of mobiles  | Reem Yassin Abdul-aziz          |                              |
| 110 | Lec. Dr. Mohammed Abdil-Allah Mohammed | Use of Bacteria in increasing soil fertlity   | Ahmed Dawood Salim              |                              |

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|-----|-----------------------------------|--|----------------------------|--------------------|
| 111 | Lec.Dr. Duha Jasim Mohammed       | Immunogenetics   | Dunia Waad Redha           |                    |
| 112 | Lec.Dr. Duha Jasim Mohammed       | Mycoplasma characters and properties                                   | Aya Hani Thanoon           |                    |
| 113 | Lec.Dr. Duha Jasim Mohammed       | Importance of mother milk for disease resistance of children           | Shahad Ammar Salih         |                    |
| 114 | Lec.Dr. Duha Jasim Mohammed       | Helicobacter pylori and gastric ulcer                                  | Zainab Aqeel Ali           |                    |
| 115 | Lec. Dr. Saffa Mohammed Mahmood   | Anatomy and body structure of medical leech and its role in human life | Afnan Firas Hazim          |                    |
| 116 | Lec. Dr. Saffa Mohammed Mahmood   | Medical insects and their role in human life                           | Shehab Aldin Ahmed Sailh   |                    |
| 117 | Lec. Dr. Saffa Mohammed Mahmood   | Spiders and their types and their role in human life                   | Hiba Sufyan Salah          |                    |
| 118 | Lec. Dr. Saffa Mohammed Mahmood   | Effect of heavy metals on shrimp and marine animals life               | Rusul Mohammed Abdul-Basit |                    |
| 119 | Lec. Dr. Omar Abdul-Aziz Ahmed    | Nanoparticles  | Mohammed Salim Qasim       |                    |
| 120 | Lec. Dr. Omar Abdul-Aziz Ahmed    | Applications used in genetic engineering and data analysis             | Safa Mohammed Hesham       | Mustafa Ziad Tariq |
| 121 | Lec. Dr. Omar Abdul-Aziz Ahmed    | Effect of nanoparticles on pathogenic particles                        | Rehab Khairy Falah         |                    |
| 122 | Lec. Dr. Fawz Abdul-Salam Khaleel | Laboratory methods in diagnosis some infectious bacteria               | Hanan qusay Shehab         |                    |
| 123 | Lec. Dr. Fawz Abdul-Salam Khaleel | Closterium and nitrogen fixation                                       | Mohammed Ali Helal         |                    |
| 124 | Lec. Dr. Fawz Abdul-Salam Khaleel | Azotobacter  | Zainab Helal Mohammed      |                    |
| 125 | Lec. Dr. Fawz Abdul-Salam Khaleel | Azospirillum in nitrogen fixation                                      | Sarah Mohammed Taha        |                    |

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|-----|----------------------------------|---|---------------------------------|------------------------|
| 126 | Lec. Dr. Zina Wajeesh Hameed     | Studying Candida yeast from morphological, cultural and economic importance aspects | Rezan Haitham<br>Mohammed Saeed |                        |
| 127 | Lec. Dr. Zina Wajeesh Hameed     | Fusarium and economic importance  | Hala Abdul-Salam Abdul-Jabbar   |                        |
| 128 | Lec. Dr. Zina Wajeesh Hameed     | Studying Trichoderma fungus from morphological and cultural aspects                 | Alaa Younis Khaleel             |                        |
| 129 | Lec. Dr. Zina Wajeesh Hameed     | Comparison between traditional and molecular methods in isolating Candida yeast     | Bassam Hasan Khalaf             |                        |
| 130 | Lec. Dr. Suhayla Yakoob Yousef   | Some of protozoa and parasitic worms affecting human intestine                      | Aaasha Ammar Abdul-lateef       | Noor Salim Ahmed       |
| 131 | Lec. Dr. Suhayla Yakoob Yousef   | Immunomodulation against trypanosoma cruzi  | Mohammed Ali Ammen Khudeer      |                        |
| 132 | Lec. Dr. Suhayla Yakoob Yousef   | Effect of ultrasonic waves on hydatid cyst worm                                     | Nahla Nawaf Qasim               |                        |
| 133 | Lec. Dr. Hannan Ameer Abdullah   | Role of fertilizers on plants   | Daood Wadee Khosaba             | <b>Anwar Ahmed Ali</b> |
| 134 | Lec. Dr. Hannan Ameer Abdullah   | Effect of Magnesium on plant and some physiological aspects                         | Hiba Basheer Natheer            |                        |
| 135 | Lec. Dr. Hannan Ameer Abdullah   | Effect of Manganese on plant nutrition and some physiological aspects               | Rahma Tariq Abdul-Hadi          |                        |
| 136 | Lec. Dr. Rasha Fawzi Abdul-Rezaq | Assessment of extract activity of some plants in inhibiting bacterial growth        | Kshy Khairy Qasim               |                        |
| 137 | Lec. Dr. Rasha Fawzi Abdul-Rezaq | Physical effectors and the positive and negative effects on plants                  | Walaya Mohammed Khaleel         |                        |
| 138 | Lec. Dr. Rasha Fawzi Abdul-Rezaq | Solanaceae plants importance and their tissue culture                               | Estabarch Salah Mekhalaf        |                        |

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|-----|-----------------------------------|---|-------------------------|----------------------|
| 139 | Lec. Dr. Noor Aamer Mohammed Ali  | Sand soil fungi   | Ahmed Hasan Khalid      |                      |
| 140 | Lec. Dr. Noor Aamer Mohammed Ali  | Fungal treatment of industrial waste water  | Zena Hussein Ali Hasan  | Sumya Hameed Majeed  |
| 141 | Lec. Dr. Noor Aamer Mohammed Ali  | Role of fungi in removal of chemical insecticides from environment                                | Sabreen Yousef Ghanem   |                      |
| 142 | Lec. Ekhlal Khalifa Hamid         | Effect of Aspirin of liver of Swiss Albino mice   | Saad Hussein Mohammed   | Ahmed Yaseen Khaleel |
| 143 | Lec. Ekhlal Khalifa Hamid         | Studying spleen histology in birds  | Ahmed Mahmood Mohammed  |                      |
| 144 | Lec. Ekhlal Khalifa Hamid         | Effect of prolactin hormone on infertility of women   | Wasan Saad Subhi        |                      |
| 145 | Lec. Tamarra Waleed Jihad         | Oxidative stress and its relationship with chronic renal failure                                  | Melath Thaaer Idress    | Alaa Ibrahim Faisal  |
| 146 | Lec. Tamarra Waleed Jihad         | Effect of gastric sleeve on some physiological variables in pateints affected with severe obesity | Farhan Khuder Qto       |                      |
| 147 | Lec. Tamarra Waleed Jihad         | Blood clotting and drug acting against  | Mohammed Louay Nori     |                      |
| 148 | Lec. Dr. Rafea Qasim Mohammed     | Plant extract and their effect on pathogenic fungi  | Atheel Khaleel Ibraheem | Shrooq Ahmed Shethaa |
| 149 | Lec. Dr. Rafea Qasim Mohammed     | Nanoparticles and their antifungal effects  | Hajer Najeeb Farhan     | Aya Qasim Sheet      |
| 150 | Lec.Dr. Muna Omar Mohammed Shehab | Importance the chemical characteristics in taxonomical studies                                    | Rahma Khallid Mohammed  | Aziz Sulmian Khalaf  |
| 151 | Lec.Dr. Muna Omar Mohammed Shehab | Cruciferae: characters, most important genera, economic and medical importance                    | Aya Salim Mohammed      |                      |
| 152 | Lec.Dr. Muna Omar Mohammed Shehab | Pollens and their importance in taxonomical studies   | Zena Hussein Ali Sultan |                      |

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|-----|-------------------------------------|--|--------------------------|---------------------------|
| 153 | Lec Dr. Yousra Abdul-Razaq Abdullah | Molecular and diagnostic study of Klebsiella and their virulence factors | Sara Shamil Ahmed        | Dema Maher Mahmood        |
| 154 | Lec Dr. Yousra Abdul-Razaq Abdullah | Staphylococcus aureus  | Howraa Mohammed Suliman  |                           |
| 155 | Lec Dr. Yousra Abdul-Razaq Abdullah | Pesudomonas aeruginosa pathogenesis                                      | Hala Bail Abdul-Jabbar   |                           |
| 156 | Lec. Dr. Raghad Mohammed Abdulla    | Role of nanotechnology in agriculture                                    | Nisreen Arafat Mohammed  | Amina Riadh Ahmed         |
| 157 | Lec. Dr. Raghad Mohammed Abdulla    | Tissue culture of Linum usilitissmum seeds                               | Akhlas Jameel Aiz-Aldeen |                           |
| 158 | Lec. Dr. Raghad Mohammed Abdulla    | Synthetic seeds and their applications                                   | Amina Mahmood Hadi       |                           |
| 159 | Lec. Shireen Yassin Qasim           | Effect of smoking on histology of eye                                    | Maryim Arkan Hazim       |                           |
| 160 | Lec. Shireen Yassin Qasim           | Histology of kidney and renal failure                                    | Maryim Hashim Younis     | <b>Rifaa Ahmed Khalaf</b> |
| 161 | Lec. Shireen Yassin Qasim           | Stem cells and their applications  | Ayman Idrees Salih       |                           |
| 162 | Lec. Alaa Taha Younis               | Screening for antibiotic producing bacteria                              | Raheema Yagob Suliman    |                           |
| 163 | Lec. Alaa Taha Younis               | Useful bacteria in our digestive system<br>Lactobacillus acidophilus     | Ahmed Namet Ahmed        |                           |
| 164 | Lec. Alaa Taha Younis               | Useful bacteria Bacillus Clausii   | Mohammed Omar Sabbar     |                           |
| 165 | Lec. Alaa Taha Younis               | Oral and dental bacteria   | Almas Ali Ahmed          |                           |
| 166 | Lec.Dr. Rebaee Hazim Mohammed       | Effect of Hepatitis B on pregnant women                                  | Hanan Haji Qasim         |                           |
| 167 | Lec.Dr. Rebaee Hazim Mohammed       | Use of chicken embryo as classic models in toxic effects assessment      | Sara Arqam Hammadi       |                           |

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| 168 | Lec.Dr. Rebaee Hazim<br>Mohammed | Crispr cas9  | Narjis Ibraheem Ahmed        |                           |
| 169 | Lec.Dr. Rebaee Hazim<br>Mohammed | Side effects of drugs treating cancer patients   | Zamen Dhafer Abdul-<br>Monem |                           |
| 170 | Lec.Dr. Younis Sadee Saeed       | Klebsiella pneumoniae and their role in<br>respiratory infections                                    | Asma Akram Ahmed             | Shahd Abdul-Ghani<br>Wafi |
| 171 | Lec.Dr. Younis Sadee Saeed       | Study of Pseudomonas aeruginosa and role of<br>nanoparticles affecting them                          | Najm Abdulla Gharbi          | Jehan Hussein<br>Mekhalf  |
| 172 | Lec.Dr. Ziad Badr Hamad          | Exam anxiety of biology department students<br>and its relationship with some variables              | Nabba Imad hashim            |                           |
| 173 | Lec.Dr. Ziad Badr Hamad          | Engagement in in learning of biology department<br>students and its relationship with some variables | Zina Khalid Abdul-Hafez      | Abeer Ali Hamad           |
| 174 | Lec.Dr. Ziad Badr Hamad          | Social security of biology department students<br>and its relationship with some variables           | Maryim Nowfal Saeed          |                           |
| 175 | Lec.Dr. Mohammed Younis<br>Ahmed | Effects of Drugs on nervous tissue   | Safa Qahtan Meshal           |                           |
| 176 | Lec.Dr. Mohammed Younis<br>Ahmed | Cancer of uterus   | Hadi Ali Saeed               |                           |
| 177 | Lec.Dr. Mohammed Younis<br>Ahmed | Necrosis as type of programmatic cell death  | Saba Emad Hashim             |                           |
| 178 | Lec.Dr. Mohammed Younis<br>Ahmed | Programmatic cell death in vertebrates   | Anwar thanoon Younis         |                           |
| 179 | Lec. Dr. Semaa Ahmed Baker       | Preservative and effect on body health   | Ali Dhaher Mohammed          |                           |
| 180 | Lec. Dr. Semaa Ahmed Baker       | Toxic effect of cadmium chloride on liver and<br>kidney tissues                                      | Eshan Ismaeel<br>Mohammed    | Dlfeen Ismael Kro         |
| 181 | Lec. Dr. Semaa Ahmed Baker       | Effect of monochromatic wavelengths on eye<br>retina   | Ahmed Abd Khalaf             |                           |

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|-----|-----------------------------------|--|------------------------------|-----------------|
| 182 | Lec Dr. Zain Alabdeen Hamza Abbas | Nitrogen fixation in algae                                       | Estabrak Saad Sultan         |                 |
| 183 | Lec Dr. Zain Alabdeen Hamza Abbas | Algal taxonomy   | Eman Khalid Ahmed            |                 |
| 184 | Lec Dr. Zain Alabdeen Hamza Abbas | Spirulina  | Safa Basam Abdul Wahab       |                 |
| 185 | Lec Dr. Zain Alabdeen Hamza Abbas | Use of algae in knowing water pollution                          | Dunia Basim Salim            |                 |
| 186 | Lec. Dr. Arwa Idrees Ahmed        | Side effects of nanoparticles                                    | Fatima Hasan Hussein         |                 |
| 187 | Lec. Dr. Arwa Idrees Ahmed        | Histological effects of tooth paste on mice liver and embryos    | Rusul Abdul-Wahid Mohammed   |                 |
| 188 | Lec. Dr. Arwa Idrees Ahmed        | Health effects of mobile phones                                  | Rehab Khuder Salih           | Nabba Larim Ali |
| 189 | Lec. Dr. Huda Saber Khalaf        | Antioxidants   | Mohammed Abdel qader Rasheed |                 |
| 190 | Lec. Dr. Huda Saber Khalaf        | Role of Vitamin D3 and calcium in treatment of Diabetic patients | Zubida Abdulla Mohammed      |                 |
| 191 | Lec. Dr. Huda Saber Khalaf        | Blood clots  | Mekat Ali Nasir              |                 |
| 192 | Lec. Dr. Huda Saber Khalaf        | Erythropoietin   | Sara Nawar Abdul Sattar      |                 |
| 193 | Lec. Mohammed Zaghlool Saeed      | Effect of Plant extract on Salmonella                            | Duaa Firas Khalid            |                 |
| 194 | Lec. Mohammed Zaghlool Saeed      | Effect of plant extracts on Staphylococcus aureus                | Ayad Neshwan Aedan           |                 |
| 195 | Lec. Mohammed Zaghlool Saeed      | Microbial contamination of food                                  | Saja Nawaf Idrees            |                 |

| No. | Supervisor name                 | Title of the project   | First student           | Second Student        |
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| 196 | Lec. Reem Adnan Abdul-Razaq     | Dissertification (concepts, appearances, cases)  | Sara Saddam Suhail      |                       |
| 197 | Lec. Reem Adnan Abdul-Razaq     | Effect of algal prosperity on aquatic environment  | Rahma Ziad Shukir       | Dunia Mostafa Mahmood |
| 198 | Lec. Reem Adnan Abdul-Razaq     | Effect of some mineral elements present in drinking water on human health                            | Amir Abdulla Ali        |                       |
| 199 | Lec. Dr. Noor Nabeel Yahya      | Chemical and morphological taxonomy of <i>Pistoceia vera</i> L. varieties                            | Zainab Ali Ghanem       | Sama Ahmed Salih      |
| 200 | Lec. Dr. Noor Nabeel Yahya      | Morphological and anatomical characters of leaves and their importance in plant classification       | Zainab Nabeel Ahmed     |                       |
| 201 | Lec. Dr. Noor Nabeel Yahya      | Chemical classification of <i>Morus</i> L. of Moraceae   | Ahmed Hasan Ahmed       |                       |
| 202 | Lec Dr. Shaymaa Mohammed Hisham | The most important insects as vectors and causative agents of some diseases                          | Maryum Mohammed Thanoon |                       |
| 203 | Lec Dr. Shaymaa Mohammed Hisham | The most important sucking insects and their harm  | Ayman Hajim Jasim       | Dunia Fawzi Ahmed     |
| 204 | Lec Dr. Shaymaa Mohammed Hisham | Honey bee , method of breeding , economic importance   | Rahma Mahmood Jameel    |                       |
| 205 | Lec. Dr. Abdulla Talal Sultan   | Studying the activity of some plant extracts in treating bacterial diseases                          | Mohammad Salih Mohamood |                       |
| 206 | Lec. Dr. Abdulla Talal Sultan   | Preparation of some plant extracts of <i>Colocynthis</i>   | Sonia Jurdo Ibrahim     |                       |
| 207 | Lec. Dr. Abdulla Talal Sultan   | Screening of the biology of <i>Callifora vomitoria</i> And their relationships with forensic science | Ruqia Hayder Ali        |                       |
| 208 | Lec. Dr. Abdulla Talal Sultan   | Preparation of plant extracts of Roselle flowers   | Sadoon Nafee Sadoon     |                       |



| No. | Supervisor name                   | Title of the project  | First student         | Second Student       |
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| 209 | Lec. Raghad Ahmed Abbas           | Contraceptive pills and their effect on Pregnant women                                | Mustafa Hamid Abdulla |                      |
| 210 | Lec. Raghad Ahmed Abbas           | Effect of Dexamethasone on white swiss mice embryos                                   | Salah Abdulla Suliman | Mohammad Ali Mahmood |
| 211 | Lec. Raghad Ahmed Abbas           | Diabetes of pregnancy   | Aya Mohammed Fadhel   |                      |
| 212 | Assist Lec Waffa Esam Abdul Qader | Biologicals signals and monitoring  | Haider Ahmed Aziz     |                      |
| 213 | Assist Lec Waffa Esam Abdul Qader | Acid rains  | Salih Amjad Salih     |                      |
| 214 | Assist Lec Waffa Esam Abdul Qader | Bioaccumulation of Heavy metals   | Amina Faris Khuder    |                      |
| 215 | Assist Lec Yassir Ajeel Jalo      | Water pollution   | Manar Saad Abdul-Aziz | Dunia Shehab Ahmed   |
| 216 | Assist Lec. Suzan Othman Omar     | Organic fertilizer and role on legumes  | Maryam Hasan Mohammed |                      |
| 217 | Assist Lec. Suzan Othman Omar     | Effect of heavy metals pollution on living organisms                                  | Anwar Ibrahim Hasan   |                      |
| 218 | Assist Lec. Rula Saadallah Najim  | Effect of some morphological variables of human in osteoporosis                       | Zainb Maysar Ismael   |                      |
| 219 | Assist Lec. Rula Saadallah Najim  | Relationship chronic kidney diseases with some functional variables of thyroid glands | Ahmed Rakan Ahmed     |                      |

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|-----|----------------------------------|---|------------------------|----------------|
| 220 | Assist Lec. Ahmed Adeeb Qanbar   | Assesment of live love of biology department students in College of Education for Pure Sciences                                 | Aseel Salim Saeed      |                |
| 221 | Assist Lec. Ahmed Adeeb Qanbar   | Reading as happiness criterion of biology department students in College of Education for Pure Sciences                         | Sahar Khuder Khalaf    |                |
| 222 | Assist Lec. Ahmed Adeeb Qanbar   | Motivation for learning criterion of biology department students in College of Education for Pure Sciences using Portugal model | Essa Khair Allal Qasim |                |
| 223 | Assit Prof.Dr. Jasim Fathi Ali   | Effect of related food contents with microorganisms on osteoporosis   | Muna Taher Mohammed    |                |
| 224 | Assit Prof.Dr. Jasim Fathi Ali   | The relationship between microorganisms in intestine and endocrine system and bone metabolism                                   | Aya Khalaf Thanoon     |                |
| 225 | Assit Prof.Dr. Jasim Fathi Ali   | The relationship between osteoporosis and microorganisms and role of miRNA  | Hiba Hadi berges       |                |
| 226 | Assist Lec. Aseel Khazil Ali     | Common bacteria causing tonsilitis in children  | Amna Ziad Mahmood      |                |
| 227 | Assist Lec. Aseel Khazil Ali     | Resistance of Pseudomonas isolated from diabetic foot to antibiotics  | Ibraheem Nashwan Sami  |                |
| 228 | Assist Lec. Aseel Khazil Ali     | Study about Bacillus cereus   | Ammar Mutlak Ibraheem  |                |
| 229 | Lec. Zeena Dhubyan Mohammed Zaki | Toxoplasmosis and effect on public health   | Noor Ammar Aziz        |                |
| 230 | Lec. Zeena Dhubyan Mohammed Zaki | Hydatid cyst disease, causes, symptoms, diagnosis , prevension  | Zainab Ahmed Hameed    |                |
| 231 | Lec. Zeena Dhubyan Mohammed Zaki | Taeniasis in human and its effect on host   | Fatma Ali Abbas        |                |

| No. | Supervisor name                  | Title of the project   | First student               | Second Student |
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| 232 | Assist Lec Bashar Rasim Karim    | Pyridin effect on structure of lung tissue   | Ranya Thamir Ahmed          |                |
| 233 | Assist Lec Bashar Rasim Karim    | Effect of zinc oxide nanoparticles on kidney histology                                       | Abdul-Barry Mohammed Ahmed  |                |
| 234 | Assist Lec Maya Ibrahim Jasim    | Comparative study of some physiological parameters in Diabetes II patients and health people | Jasim Alyas Khaleel         |                |
| 235 | Assist Lec Maya Ibrahim Jasim    | The physiological effect of oxidative stress on general individual health                    | Abdul-Qader Mohammed Ahmed  |                |
| 236 | Assist Lec. Maha Falah Ramzi     | Extraction of pigments from cyanobacteria and their nano applications                        | Estabraq Abdul kareem Qasim |                |
| 237 | Assist Lec. Maha Falah Ramzi     | Effect of algal extracts on cancer cells   | Nassema Jono Edo            |                |
| 238 | Assist Lec. Maha Falah Ramzi     | The antimicrobial effect of algal saccharides  | Ayad Ali Mohammed           |                |
| 239 | Assist Lec Zubida Mahmood Salih  | Treatment of sewage water by algae   | Amina Ibraheem Sino         |                |
| 240 | Assist Lec Zubida Mahmood Salih  | Use of Algae in biofuel production   | Amira Raad Saad Aldeen      |                |
| 241 | Assist Lec Zubida Mahmood Salih  | Use of algae in removal of heavy metals from water   | Mohammed Saad Saeed         |                |
| 242 | Assist Lec. Zahraa Hazim Thanoon | Types of bacteria causing urinary tract infections   | Shrrok Salim Ibraheem       |                |
| 243 | Assist Lec. Zahraa Hazim Thanoon | Types of bacteria causing respiratory tract infections                                       | Dunia Qusay Abd             |                |

| No. | Supervisor name                    | Title of the project   | First student              | Second Student |
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| 244 | Assist Lec. Ahmed Nabeel Saeed     | Isolation and diagnosis of fungus accompanying storage apple rot in Mosul city | Mohammed Abdullal Mohammed |                |
| 245 | Assist Lec. Ahmed Nabeel Saeed     | Isolation and diagnosis of fungus on stored potato tubers in Mosul city        | Ali Ismael Almosely        |                |
| 246 | Assist lec. Yathrib Mashalal Hamid | Cases of ascaris infection and prevention                                      | Anwar Abdel-mohsen Hasan   |                |
| 247 | Assist lec. Yathrib Mashalal Hamid | Studying the pathogenicity of Endameba histolytica and spread ways             | Aseel Hamid Ismael         |                |