# General Materials Engineering Branch

**2018-2019**

| student's name | Supervisor name | project name | sequence |
|---|---|---|---|
| Teeba Ali | Prof. Ali Hussein Atwi | Effect of cryogenic treatment on mechanical properties of AL alloy | 1 |
| Hawraa Abdel Kareem | Prof. Mohamed Salab | Preparation of hybrid composite material reinforced with particles of powder for structural applications | 2 |
| Maha Alaa | Prof. Rana Afif | Corrosion behavior of jewelery in artificial sweat | 3 |
| Farah Dawood | Prof. Abbas Khammas | Effect of properties layer on high temperature oxidation of steel | 4 |
| Saja Odha | Prof. Dr. Fadel Abbas | Characterization of Ni Fe sintered powder joint by active brazing process | 5 |
| rafah Munir | Asst. Prof. Dr. Laith Qais | Studying some mechanical properties of St37 quenched with different medias | 6 |
| Marwa Abbas | Asst. Prof. Dr. Wafa Mahdi | Influence of chemical treatment on wear and hardness properties of the polymer- metal composites | 7 |
| Ali Hussein Abbas | Asst. Prof. Ahmed Ameed | Cyclic heat treatment for medium carbon steel | 8 |
| Ahmed Wleed | Asst. Prof. Neveen Jamal | Production and properties of aluminum metal matrix composite reinforced with recycled granite particles | 9 |
| Farah Madien | Lect. Dr. Arow Faraj | A study of tensile properties of weld joints of carbon steel | 10 |
| Sara Maan | Lect. Dr. Raad Suhail | Effect of Te addition on thermal properties of Cu-AL-Ni shape memory alloy | 11 |

| | | | |
|---|---|---|---|
| Zahraa Alaa | Lect. Dr. Raad Suhail | Effect of 1% Ge, Ce and Sn addition on thermo mechanical properties of Cu-AL-Ni shape memory alloy Via computer approach | 12 |
| Maryam Shehab | Lect. Dr. Fatima Jaafar | Effect of cobalt addition on the corrosion behavior of titanium dental implants | 13 |
| Reham Abdel Razzaq | Asst. Prof. Majed Hameed | Effect of different polymeric quenching media on the mechanical properties of carbon steel | 14 |
| Amena Fouad | Lect. Leith Waddah | The effect of agglomeration on the radiative properties of nanoparticle suspensions | 15 |
| Zainab Firas | Lect. Dr. Hind Basil | Investigation of process parameters of fused deposition modeling on mechanical and physical properties for PLA parts | 16 |
| Teba Hussein | Lect. Dr. Hind Basil | Effect of process parameters on mechanical and physical properties of 3D – printed ABS parts | 17 |
| Ali Shaker | Lect. Mervit Mahdi | Characterization of cast AL- 4% Si alloy reinforced with nano particles composites | 18 |
| Hawraa Ibrahim | Asst. Lect. Dalia Mohammed | Effect of Amine derivative as inhibitor for deferent alloys | 19 |
| RIA NOZAD | Asst. Lect. Sahar Hussein | Study the corrosion resistance property on similar and dissimilar aluminum alloys welded by friction stir process | 20 |

Ceramic Engineering and Building Materials Branch

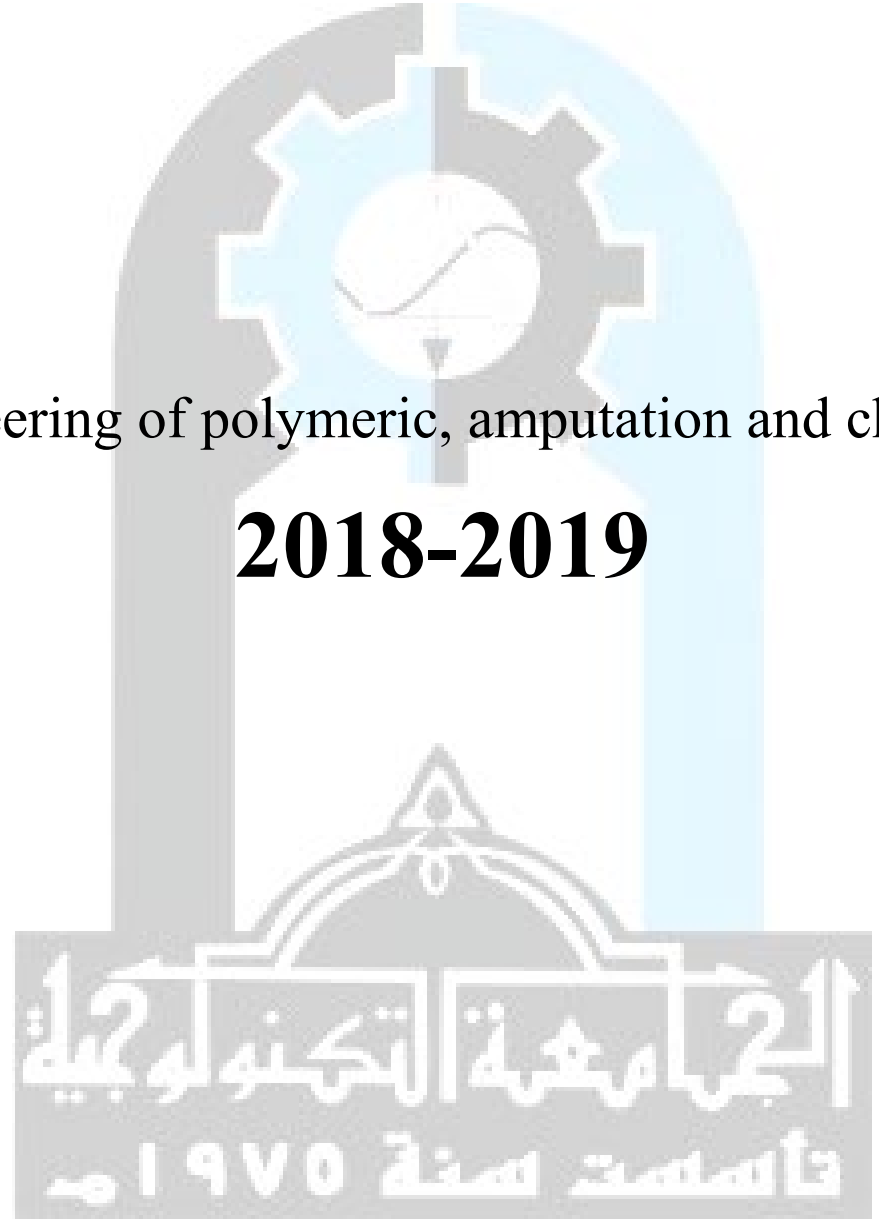
# 2018-2019

| student's name | Supervisor name | project name | sequence |
|---|---|---|---|
| Saba Rushdie | Prof. Dr. Saad Badri Hassoun | Effect of glass addition on the properties of zinc- polycarboxylate cement used in dentisry | 1 |
| Alaa Saadi | Prof. Dr. Fadel Abde Rassen | Effect of binder- plasitesizer – lubrecants on mechanical properties of metal – kaolen prepared from local kaolen | 2 |
| Alia Abbas | Prof. Dr. Fadel Abde Rassen | Study the effect of adding alumina on thermal and mechanical properties of porcelinate – kaolin composite | 3 |
| Sarah Muthanna | Prof. Dr. Farhad Mohammed | Cement properties for well drilling activity | 4 |
| Mays Rafed | Asst. Prof. Alaa Alaeddin | Study some properties of $TiO_2$ nanopowders in advanced application materials | 5 |
| Gufran Kamal | Asst. Prof. Alaa Alaeddin | Employed recycling materials for fabrication advanced mortar | 6 |
| Rokaya Mahmoud | Asst. Prof. Dr. Aseel Basem | Peels nuts recycling for fabrication eco- friendly mortar cement | 7 |
| Athraa Aqeel | Asst. Prof. Dr. Aseel Basem | Flint and kaolin rocks recycling for fabrication eco- friendly mortar cement | 8 |
| Sara Thamer | Asst. Prof. Dr. Sarmad Emad | Studying the effect of titanium dioxide nanoparticles on the physical and mechanical properties for cement mortar | 9 |
| Safad ahmed | Asst. Prof. Dr. Hussein Alaa Jaber | Using of waste materials for bricks production | 10 |
| Anfal Riyadh | Asst. Prof. Dr. Hanaa Areer | Morphology and mechanical properties of composite coating by electrostatic spray method | 11 |
| Ghafran Abdul Karim | Asst. Prof. Dr. Hanaa Areer | Prepration and characterization of $TiO_2$- $ZrO_2$ spin coating sol- gel method | 12 |

| | | | |
|---|---|---|---|
| Nesreen Khalaf | Dr. Eyad Kadhem Hassan | Study the effect of adding coal ratio on mechanical properties | 13 |
| Amel Hayder | Lect. Dr. Bassma Hashem | Preparation pf nano- composite material and study its impact property | 14 |
| Khadija Ali | Dr. ahmed Hussein | The effect of adding nano zinc oxide $ZnO_2$ into physical and mechanical properties of cement paste | 15 |
| Humam Kreem | Dr. Mohaned Najah | Using electrostatic spray method to prepare coated composite materials | 16 |
| Sami | Lect. Amar Mousa | Investigation the effect reinforced by fly ash and fly dust of nanoparticles on cement concrete | 17 |
| Hiam Abdel Salam | Lect. Mena Faisal | Investigation of composite coating by sipn coating method | 18 |
| Sama sami | Asst. Lect. Shatha Riyadh | Natural waste recycling for fabrication green mortar cement | 19 |
| Zainab Khaled | Rawneq Saladin | Study the effect of silica and alumina on the electrical properties of calcinated kaolin | 20 |

Branch of engineering of polymeric, amputation and chemical materials

# 2018-2019



| student's name | Supervisor name | project name | sequence |
|---|---|---|---|
| Tiba Haidar | Asst. Prof. Dr.D. Jawad Kazem | Studying the effect of the fibers Angle on the elastic constants of the polymeric composite materials | 1 |
| Arafat Salman | Asst. Prof. Dr. Sihama Issa | Investigation of mechanical properties of polymeric nano composites for low cost structural applications | 2 |
| Zahra Fadel | Asst. Prof. Dr. Sihama Issa | Preparation and investigation of mechanical properties of polymeric nanocomposites using in the medical applications | 3 |
| Heba Nouri Shafiq | Asst. Prof. Dr. Kazem Matar Shabib | Polymer modification for industrial applications | 4 |
| Fatima Mohamed | Prof. Dr. Akram Rahim Jabr | Electro spinning of poly methyl methacrylate nano fiber in different solvents | 5 |
| Laith Sadek | Asst. Prof. Dr. Mohamed Abdel-Hussein | Waste plastics (water bottles) using for waterproofing | 6 |
| Arkan Hussein | Asst. Prof. Dr. Mohamed Abdel-Hussein | Poly ethylene terephthalate depolymerization for paints application | 7 |
| Nour El Hoda Bassam | Asst. Prof. Dr. Mohamed Osama | Mechanical and thermal study of date palm fiber reinforced thermoplastic poly propylene composites | 8 |
| Nabaa Yahya | Lect. Dr. Mohamed Ramiad | Determine of mechanical properties of composite materials polymer matrix reinforced with polymer fibers | 9 |
| Nour al - Huda Nawar | Lect.Dr. Qahtan Adnan | Influence the different types of natural materials on some mechanical properties of polymer matrix composite materials | 10 |

| | | | |
|---|---|---|---|
| Clara Corcis | Lect. Dr. Manar Abdel-Jabbar Najm | Preparation and characterizing the mechanical properties of a polymeric scaffold used as a small- Diameter blood vessel | 11 |
| Sara Salam | Dr. Mohammed Kashkool | A study on waste particles affecting physical properties of polymer composites | 12 |
| Gufran Hussein | Dr. Shaima Mehdi | Characterization of reinforced polymer coating with nano particles for protection of steel structure | 13 |
| Fatima Sabah | Lect. Aseel Mahmoud | Developing composites from marble waste particles | 14 |
| Shams Nomas | Lect. Rouaa Haitham | Effect of nano particles on mechanical and physical properties of polymer composites | 15 |
| Mustafa Moyed | Shaimaa Gomaa | Synthesis and characterization biodegradable composite material for biological applications | 16 |
| Noor Imad | Hawazin salam | Flexural and impact properties of polymeric matrix composite | 17 |
| Rania Kadhem | Asst. Lect. Rabab Asam | Study the effect of PVDF for tissue engineering applications | 18 |