**ADAMA SCIENCE AND TECHNOLOGY UNIVERSITY**

**SCHOOL OF APPLIED NATURAL SCIENCE**

**APPLIED CHEMISTRY PROGRAM**

**2018/19 1ST SEMESTER COURSE DISTRIBUTION**

**Year II Semester I**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S/N** | **Courses Name** | **Course Code** | **Cr Hr** | **Lec.** | **Lab.** | **No. of sections** | **Instructor** | **ARAs** |
| 1 | Chemistry major Lab I | Chem2211 | 2 | 0 | 6 |  | Dr. Dereje Tsegaye |  |
| 2 | Physical Chemistry I | Chem2205 | 3 | 3 | 0 |  | Mr. Yilkal Dessie |  |
| 3 | Organic Chemistry I | Chem2203 | 3 | 3 | 0 |  | Mr. Yilkal Matebie |  |
| 4 | Analytical Chemistry | Chem2201 | 3 | 3 | 0 |  | Mr. Defaru Negera |  |
| 5 | Research Method and Scientific Writing | Chem2207 | 2 | 2 | 0 |  | Dr. Hailemichael Tesso |  |
| 6 | Basic Statistics for Applied Science | Stat2103 | 3 | 3 | 0 |  | Dr. Tatek Getachew Habtemichael |  |
|  | **Total Cr.Hrs** | | **16** | | |  |  |  |

**Year III Semester I**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S/N** | **Courses Name** | **Course Code** | **Cr Hr** | **Lec.** | **Lab.** | **No. of sections/**  **group** | **Instructors** | **ARAs** |
| 1 | Chemistry major lab III | Chem3215 | 2 | 0 | 6 | 2 | Dr. Rajalakshmanan Eswaramoorthy &  Prof. Rajinder Mahajan.  . |  |
| 2 | Inorganic Chemistry II | Chem3203 | 3 | 3 | 0 |  | Dr. Tegene Dessalegn |  |
| 3 | Environmental Chemistry | Chem3207 | 3 | 3 | 0 |  | Dr. Eshetu Bekele |  |
| 4 | Biochemistry | Chem3209 | 3 | 3 | 0 |  | Sreenivas Reddy Bathula |  |
| 5 | General Microbiology | Biol3209 | 3 | 3 | 0 |  | Dr. Zerihun Belay |  |
| 6 | General elective\* | LARTXXX | 3 | 3 | 0 |  | TBA |  |
| **Total Cr.Hr** | | | **17** | | | |  |  |

**General elective\* (LARTXXXX):**

* Philosophy of Science and Technology (LART3011) (Gemechis Asfaw)
* Theories of Knowledge (LART3041) (Shelema Regassa)
* Introduction to Moral Philosophy (LART3051) (Girma Bekele)

**\*The highlighted with green agree are electives being taken by students at this semester and name of corresponding instructors are given brackets.**

**Year IV Semester I**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **S/N** | **Courses Name** | **Course Code** | **Cr Hr** | **Lect.** | **Lab** | **No of sections** | **Instructors** |
| 1 | Internship | Chem4200 | 0 |  |  |  | Dr. Fedlu Kedir |
| 2 | Seminar I | Chem4201 | 1 |  |  |  | Dr. Aschalew Tadesse |
| 3 | Undergraduate Research I | Chem4211 | 1 |  |  |  | Dr. Eshetu Bekele |
| 4 | Major Elective\*\* | MR – EL | 3 |  |  |  |  |
| 5 | Major Elective\*\* | MR – EL | 3 |  |  |  |  |
| 6 | Major Elective\*\* | MR – EL | 3 |  |  |  |  |
| 7 | Major Elective\*\* | MR-EL | 3 |  |  |  |  |
| 8 | Free elective | ABCDXXXX | 3 |  |  |  |  |
| **Total Cr.hr 17** | | | |  |  |  |  |

**Major elective (MR-EL)\*\***

* Process Chemistry (Chem4321) (Mr. Solomon Bekele & Mr. Nigussie Alebachew )
* Synthetic chemistry (Chem4323) ( Prof. Mahajan and Dr. Rajalakshmana )
* Organic structure analysis (Chem4327)
* Inorganic Material Chemistry (Chem4329) (Dr. H.C. Ananda Murthy)
* Natural product chemistry (Chem4331) ( Dr. Milkyas Endale )
* Catalytic Chemistry (Chem4337)
* Special topics in chemistry (Chem4339) ( By Dr. Gemechu Deressa)
* Bioorganic Chemistry (Chem4351) (Matheos Anza & Demis Zelelew )
* Bioinorganic chemistry (Chem4353) ( Mr. Mamaru Bitew)
* Industrial Chemistry II (Chem4325 ( By Mr. Agraw Mulat )

Environmental Microbiology ( Biol4337) (Dr. Zerihun Belay )

* Introduction to Solid state Chemistry Chem4335 (TBA)

**\*The highlighted with green agree are electives being taken by students at this semester and name of corresponding instructors are given brackets.**

**Course offering from other programs**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S/N** | **Courses Name** | **Course Code** | **Cr Hr** | **lec** | **lab** | **Lec. Equiv** | **Instructor** | **ARAs** | **Remark** |
| 1 | Fundamental organic chemistry | Chem2107 | 3 | 2 | 1 | 4 | Mr. Digafie Zeleke |  | 2nd year biology |
| 2 | Fundamental analytical chemistry | Chem2103 | 3 | 2 | 1 | 4 | Mr. Hizkeal Tsade |  | 2nd year biology |
| 3 | General chemistry | Chem1011 | 3 | 3 | 0 |  | Dr. Aschalew Tadesse (3 sections)  Dr. Tajeldin (3 sections)  Dr. Dereje Tsegaye (3 sections)  Dr. Gemechu Deressa (3 sections)  Dr. Ananda Murhy (3 sections)  Dr. Rajalakshmama ( 3 sections)  Dr. Teshome Tolcha ( 3 sections)  Dr. Endale Mulugeta ( 2 Sections)  Dr. Kebede Taye (2 Sections)  **Coordinators:**  Dr. Tajeldin and  Dr. Dereje Tsegaye |  | Pre-engineering  To be handled by Fresh man division |
| 4 | Fundamental inorganic chemistry | Chem2111 | 3 | 3 | 0 | 3 | Dr. *Fekadu Muleta* |  | 2nd year Geology |
| 5 | Fundamental Physical chemistry | Chem2122 | 3 | 3 | 0 | 3 | Mr. Bayisa Meka |  | 2nd year Geology |
| 6 | Applied organic chemistry | Chem3103 | 3 | 2 | 1 | 12 | 1. Mr.Getachew Tegegn 2. Mr. Dawit Tesfaye 3. Mr. Teshale Asefa |  | 3rd Chemical Eng.  three sections  To be handled by dept of chemical Eng |