

# BACHELOR OF SCIENCE IN ARTIFICIAL INTELLIGENCE (August 2026)

## FRESHMAN YEAR

| FIRST SEMESTER     |                                      |              |               |     |               | SECOND SEMESTER    |                                         |              |               |     |               |
|--------------------|--------------------------------------|--------------|---------------|-----|---------------|--------------------|-----------------------------------------|--------------|---------------|-----|---------------|
| Course Number      | Course Title                         | Credit Hours | Contact Hours |     | Pre-requisite | Course Number      | Course Title                            | Credit Hours | Contact Hours |     | Pre-requisite |
|                    |                                      |              | Lec           | Lab |               |                    |                                         |              | Lec           | Lab |               |
| ISLM 1221          | Islamic Cultures, Values & Societies | 2            | 2             | 0   | IELTS/APTIS   | UNIV 1221          | Generative AI Prompt Engineering Basics | 2            | 2             | 0   | UNIV 1211     |
| COMM 1321          | Oral Communication                   | 3            | 3             | 0   | IELTS/APTIS   | COMM 1322          | Written Communication                   | 3            | 3             | 0   | COMM 1321     |
| UNIV 1211          | Prof. Development and Competencies   | 2            | 2             | 0   |               | UNIV 1212          | Critical Thinking and Problem Solving   | 2            | 2             | 0   | UNIV 1211     |
| MATH 1422          | Calculus I                           | 4            | 4             | 1   | PRPM 0022     | PHYS 1421          | Physics for Engineers I                 | 4            | 3             | 3   | PRPM 0022     |
| GEIT 1411          | Computer Science I                   | 4            | 3             | 2   |               | GEIT 1412          | Computer Science II                     | 4            | 3             | 2   | GEIT 1411     |
| PHED 1111          | Active Living Lifestyle              | 1            | 1             | 0   |               | MATH 1423          | Calculus II                             | 4            | 4             | 1   | MATH 1422     |
| Total Credit Hours |                                      | 16           |               |     |               | Total Credit Hours |                                         | 19           |               |     |               |

## SOPHOMORE YEAR

| FIRST SEMESTER     |                                        |              |               |     |                       | SECOND SEMESTER    |                                                 |              |               |     |                    |
|--------------------|----------------------------------------|--------------|---------------|-----|-----------------------|--------------------|-------------------------------------------------|--------------|---------------|-----|--------------------|
| Course Number      | Course Title                           | Credit Hours | Contact Hours |     | Pre-requisite         | Course Number      | Course Title                                    | Credit Hours | Contact Hours |     | Pre-requisite      |
|                    |                                        |              | Lec           | Lab |                       |                    |                                                 |              | Lec           | Lab |                    |
| UNIV 2221          | Future Skills                          | 2            | 2             | 0   | UNIV 1221             | UNIV 2222          | Systems Thinking for Future Innovations         | 2            | 2             | 0   | UNIV 2221          |
| UNIV 1213          | Leadership and Teamwork                | 2            | 2             | 0   | UNIV 1212             | COMM 2322          | Writing & Research                              | 3            | 3             | 0   | COMM 2321          |
| PHYS 1422          | Physics for Engineers II               | 4            | 3             | 3   | PHYS1421<br>MATH 1422 | ASSE 2111          | Learning Outcome Assessment I                   | 1            | 1             | 1   | Sophomore Standing |
| GEIT 2291          | Professional Ethics                    | 2            | 2             | 0   |                       | GEIT 2331          | Mathematical Reasoning and Algorithmic Thinking | 3            | 3             | 0   | GEIT 1412          |
| GEIT 2421          | Data Structures                        | 4            | 3             | 2   | GEIT 1412             | AINT 2412          | Scripting Languages for AI                      | 4            | 3             | 2   | GEIT 1412          |
| COMM 2321          | Technical & Professional Communication | 3            | 3             | 0   | COMM 1322             | AINT 2311          | Introduction to AI                              | 3            | 3             | 0   | GEIT 2421          |
| PHED 1112          | Healthy Behaviors and Management       | 1            | 1             | 0   | PHED 1111             | MATH 2313          | Probability and Statistics                      | 3            | 3             | 1   | MATH 1423          |
| Total Credit Hours |                                        | 18           |               |     |                       | Total Credit Hours |                                                 | 19           |               |     |                    |

## JUNIOR YEAR

| FIRST SEMESTER     |                                                |              |               |     |                                | SECOND SEMESTER    |                                    |              |               |     |                   |
|--------------------|------------------------------------------------|--------------|---------------|-----|--------------------------------|--------------------|------------------------------------|--------------|---------------|-----|-------------------|
| Course Number      | Course Title                                   | Credit Hours | Contact Hours |     | Pre-requisite                  | Course Number      | Course Title                       | Credit Hours | Contact Hours |     | Pre-requisite     |
|                    |                                                |              | Lec           | Lab |                                |                    |                                    |              | Lec           | Lab |                   |
| AINT 3332          | Discrete Structures and Combinatorial Analysis | 3            | 3             | 0   | GEIT 2331                      | GEIT 3351          | Principles of Software Engineering | 3            | 3             | 0   | GEIT 1412         |
| GEIT 3341          | Database I                                     | 3            | 2             | 2   | GEIT 1412                      | AINT 3421          | Deep Learning                      | 4            | 3             | 2   | AINT 3411         |
| AINT 3411          | Introduction to Machine Learning               | 4            | 3             | 2   | AINT 2412<br>MATH 2313         | AINT 3351          | Algorithms                         | 3            | 3             | 0   | GEIT 2421         |
| MATH 3433          | Linear Algebra and Differential Equation       | 4            | 4             | 1   | MATH 1423                      |                    | AI Elective I***                   | 3            |               |     | See from the list |
| ASSE 3211          | Learning Outcome Assessment II                 | 2            | 2             | 1   | ASSE 2111<br>& Junior Standing |                    | Natural Science Elective**         | 4            |               |     | See from the list |
| GEIT 3331          | Computer Organization                          | 3            | 3             | 0   | GEIT 1412                      |                    |                                    |              |               |     |                   |
| Total Credit Hours |                                                | 19           |               |     |                                | Total Credit Hours |                                    | 17           |               |     |                   |

## SUMMER OF JUNIOR YEAR

| Course Number    | Course Title | Credit Hours |                               | Pre-requisite                                                         |
|------------------|--------------|--------------|-------------------------------|-----------------------------------------------------------------------|
| <b>GEIT 4361</b> | Internship   | 3            | 8 weeks (320 hours) full time | End of Junior Year (summer before graduation) and department approval |

## SENIOR YEAR

| FIRST SEMESTER                  |                                      |              |               |     |                             | SECOND SEMESTER    |                             |              |               |     |                   |
|---------------------------------|--------------------------------------|--------------|---------------|-----|-----------------------------|--------------------|-----------------------------|--------------|---------------|-----|-------------------|
| Course Number                   | Course Title                         | Credit Hours | Contact Hours |     | Pre-requisite               | Course Number      | Course Title                | Credit Hours | Contact Hours |     | Pre-requisite     |
|                                 |                                      |              | Lec           | Lab |                             |                    |                             |              | Lec           | Lab |                   |
| AINT 4373                       | Computer Vision                      | 3            | 3             | 0   | MATH 3433                   |                    | AI Elective III***          | 3            |               |     | See from the list |
| ASSE 4311                       | Learning Outcome Assessment III - AI | 3            | 3             | 0   | ASSE 3211 & Senior Standing |                    | Social Science Elective II* | 3            |               |     | See from the list |
|                                 | Social Science Elective I*           | 3            |               |     | See from the list           |                    | AI Elective IV***           | 3            |               |     | See from the list |
|                                 | AI Elective II***                    | 3            |               |     | See from the list           |                    |                             |              |               |     |                   |
| Total Credit Hours              |                                      | 12           |               |     |                             | Total Credit Hours |                             | 9            |               |     |                   |
| TOTAL DEGREE CREDIT HOURS = 132 |                                      |              |               |     |                             |                    |                             |              |               |     |                   |

### \* Social Science Electives: 2 Courses = 6 Credit Hours

| Course Number    | Course Title                                      | Credit Hours | Pre-Requisites |
|------------------|---------------------------------------------------|--------------|----------------|
| <b>FREN 1311</b> | Introduction to French Language                   | 3            |                |
| <b>FURS 1311</b> | Introduction to Futures Skills                    | 3            |                |
| <b>FUTR 1311</b> | Introduction to Futures Studies                   | 3            |                |
| <b>GEGR 1311</b> | World Regional Geography                          | 3            |                |
| <b>HIST 1311</b> | World Civilizations                               | 3            |                |
| <b>PSYC 1311</b> | Introduction to Psychology                        | 3            |                |
| <b>SERV 1311</b> | Introduction to Service Learning and Volunteering | 3            |                |
| <b>SPAN 1311</b> | Introduction to Spanish Language                  | 3            |                |
| <b>SUST 1311</b> | Introduction to Sustainability                    | 3            |                |
| <b>SYST 1311</b> | Introduction to Systems Thinking                  | 3            |                |
| <b>BSTW 1311</b> | Behavioral Sciences in 3D World                   | 3            |                |
| <b>DANT 1311</b> | Digital Anthropology                              | 3            |                |
| <b>ECON 1311</b> | Introduction to Macroeconomics                    | 3            |                |
| <b>ECON 1312</b> | Introduction to Microeconomics                    | 3            |                |

| <b>** Natural Science Electives: 1 Course = 4 Credit Hours</b> |                            |                     |                      |     |                      |
|----------------------------------------------------------------|----------------------------|---------------------|----------------------|-----|----------------------|
| <b>Course Number</b>                                           | <b>Course Title</b>        | <b>Credit Hours</b> | <b>Contact Hours</b> |     | <b>Pre-requisite</b> |
|                                                                |                            |                     | LEC                  | LAB |                      |
| <b>BIOL 1411</b>                                               | Introductory Biology       | 4                   | 3                    | 3   | PRPM 0011            |
| <b>CHEM 1411</b>                                               | Introductory Chemistry     | 4                   | 3                    | 3   | PRPM 0011            |
| <b>CHEM 1421</b>                                               | Chemistry for Engineers I  | 4                   | 3                    | 3   | PRPM 0022            |
| <b>CHEM 1422</b>                                               | Chemistry for Engineers II | 4                   | 3                    | 3   | PRPM 0022            |
| <b>GEOL 1411</b>                                               | Introductory Geology       | 4                   | 3                    | 3   | PRPM 0011            |

| <b>*** AINT Electives: 4 Courses = 12 Credit Hours</b> |                                     |                     |                      |     |                                       |
|--------------------------------------------------------|-------------------------------------|---------------------|----------------------|-----|---------------------------------------|
| <b>Course Number</b>                                   | <b>Course Title</b>                 | <b>Credit Hours</b> | <b>Contact Hours</b> |     | <b>Pre-requisite</b>                  |
|                                                        |                                     |                     | LEC                  | LAB |                                       |
| <b>AINT 3354</b>                                       | Introduction to Cryptography        | 3                   | 3                    | 0   | GEIT 2421                             |
| <b>AINT 4371</b>                                       | Computer Graphics                   | 3                   | 3                    | 0   | GEIT 2421                             |
| <b>AINT 3357</b>                                       | Logic and Formal Verification       | 3                   | 3                    | 0   | GEIT 2331                             |
| <b>AINT 4372</b>                                       | Distributed Systems and Algorithms  | 3                   | 3                    | 0   | AINT 3351                             |
| <b>AINT 4362</b>                                       | Multi Agent Systems                 | 3                   | 3                    | 0   | AINT 3411                             |
| <b>AINT 3381</b>                                       | Big Data Analytics                  | 3                   | 3                    | 0   | AINT 3411                             |
| <b>AINT 4374</b>                                       | Text Mining                         | 3                   | 3                    | 0   | AINT 3411                             |
| <b>AINT 4381</b>                                       | Intelligent Robotics                | 3                   | 3                    | 0   | AINT 3411                             |
| <b>AINT 4376</b>                                       | Bioinformatics                      | 3                   | 3                    | 0   | AINT 3351                             |
| <b>AINT 4380</b>                                       | Quantum Information and Computation | 3                   | 3                    | 0   | AINT 3351                             |
| <b>AINT 3361</b>                                       | Computer Networks                   | 3                   | 3                    | 0   | MATH 2313<br>GEIT 2421                |
| <b>AINT 4311</b>                                       | Parallel Computing                  | 3                   | 3                    | 0   | AINT 3351                             |
| <b>AINT 4361</b>                                       | Operating Systems                   | 3                   | 3                    | 0   | GEIT 3331                             |
| <b>AINT 3371</b>                                       | Database II                         | 3                   | 2                    | 2   | GEIT 3341                             |
| <b>AINT 4393</b>                                       | Special Topics – I                  | 3                   | 3                    | 0   | Senior Standing & Department Approval |
| <b>AINT 4398</b>                                       | Special Topics – II                 | 3                   | 3                    | 0   | Senior Standing & Department Approval |
| <b>AINT 4399</b>                                       | Special Topics – III                | 3                   | 3                    | 0   | Senior Standing & Department Approval |