

**Prince Alhussein Bin Abdullah The Second For Information Technology
Computer Science And Application (Csa)**

**Study Program : Bachelor
Study Plan Type : Major
Academic Year : 2022**

The requirements to obtain a Bachelor degree is :-

*** The minimum requirements to get a Bachelor degree in / Computer Science And Application (Csa) / is to pass 132 credit hours, according to this study plan.**

*** The credit hours are distributed to get a Bachelor degree as follows :-**

| | Number of credit hours |
|-----------------------------------|-------------------------------|
| University Requirements | 27.000 |
| Compulsory | 18.000 |
| Elective | 9.000 |
| Faculty Requirements | 22.000 |
| Compulsory | 22.000 |
| Specialization Requirments | 83.000 |
| Compulsory | 71.000 |
| Elective | 12.000 |
| Pre-requist Courses | 0.000 |
| | 0.000 |
| Total : | 132.000 |

University Requirements Credit Hours : 27
Requirement type : Compulsory Credit Hours :18

| Course Number | Course Name | Credit Hours | Theoretical | Practical | Pre - Requisite |
|----------------------|--------------------------------------|---------------------|--------------------|------------------|------------------------|
| 2116011101 | Arabic Communication Skills | 3.000 | 3.000 | 0.000 | 121601099 |
| 2116021101 | English Communication Skills | 3.000 | 3.000 | 0.000 | 121602099 |
| 2214041117 | Military Science | 3.000 | 3.000 | | |
| 1714041118 | National Education | 3.000 | 3.000 | 0.000 | |
| 2114041123 | Leadership and Social Responsibility | 2.000 | 2.000 | 0.000 | |
| 2114041125 | Life Skills | 2.000 | 2.000 | 0.000 | |
| 2210041132 | enterepreurship and innovation | 2.000 | 2.000 | 0.000 | |

University Requirements Credit Hours : 27
Requirement type : Elective Credit Hours :9

| Course Number | Course Name | Credit Hours | Theoretical | Practical | Pre - Requisite |
|---------------|--------------------------------------|--------------|-------------|-----------|-----------------|
| 1804001128 | Cyber Hygiene | 3.000 | 3.000 | 0.000 | 110108099 |
| 2210031100 | digital culture | 3.000 | 3.000 | 0.000 | |
| 1916033201 | Italian Language (2) | 3.000 | 3.000 | 0.000 | 1716031101 |
| 1916034101 | Russian Language (1) | 3.000 | 3.000 | 0.000 | |
| 1916034102 | Russian Language (2) | 3.000 | 3.000 | 0.000 | |
| 1916034201 | Japanese (2) | 3.000 | 3.000 | 0.000 | 1716031102 |
| 1916035101 | Turkish Language (1) | 3.000 | 3.000 | 0.000 | |
| 1916036101 | Korean Language (1) | 3.000 | 3.000 | 0.000 | |
| 1916036102 | Korean Language(2) | 3.000 | 3.000 | 0.000 | 1916036101 |
| 1916037101 | German Language (1) | 3.000 | 3.000 | 0.000 | |
| 1916038101 | Chinese Language (1) | 3.000 | 3.000 | | |
| 1916039101 | Polish Language (1) | 3.000 | 3.000 | 0.000 | |
| 1714041101 | University Life of Student | 3.000 | 3.000 | | |
| 1714041102 | Introduction to Psychology | 3.000 | 3.000 | | |
| 1714041104 | Family and Child Education | 3.000 | 3.000 | | |
| 1714041107 | Citizenship and Human Rights | 3.000 | 3.000 | | |
| 1714041110 | Islam Current Issues | 3.000 | 3.000 | | |
| 1714041111 | Islamic Thought | 3.000 | 3.000 | | |
| 1714041112 | Jerusalem : Histroy and Civilization | 3.000 | 3.000 | | |
| 1714041113 | Citizenship and Human Rights | 3.000 | 3.000 | 0.000 | |
| 1714041114 | Histroy and Civilization of Jordan | 3.000 | 3.000 | | |
| 1714041115 | Sociology | 3.000 | 3.000 | | |
| 1714041116 | Archaeology and Tourism | 3.000 | 3.000 | | |
| 1714041120 | Economic and Management Science | 3.000 | 3.000 | | |
| 1714041121 | Law and Ordering of Our Life | 3.000 | 3.000 | | |

University Requirements Credit Hours : 27
Requirement type : Elective Credit Hours :9

| Course Number | Course Name | Credit Hours | Theoretical | Practical | Pre - Requisite |
|---------------|--|--------------|-------------|-----------|-----------------|
| 1714041122 | Principles of Sign Language | 3.000 | 3.000 | | |
| 1714041126 | Humanistic Moral and Values Education | 3.000 | 3.000 | | |
| 1714041127 | Conflict Resolution and Accept Others | 3.000 | 3.000 | | |
| 1714041128 | Culultural Heritage in Jordan | 3.000 | 3.000 | | |
| 1914041130 | Integrity Transperancy and anti - Corruption | 3.000 | 3.000 | 0.000 | |
| 1714041193 | Palestinian Cause | 3.000 | 3.000 | | |
| 1714041194 | Arabic Language and Current Issues | 3.000 | 3.000 | | |
| 1814041195 | Disability and Healthy Community | 3.000 | 3.000 | | |
| 1814041197 | Selected Topics in National Trends | 3.000 | 3.000 | | |
| 1814041198 | Education for Sustainable Development | 3.000 | 3.000 | | |
| 1814041199 | Adjustment and Mental Health | 3.000 | 3.000 | | |
| 1814041200 | Introduction to Education | 3.000 | 3.000 | | |
| 1914042111 | Media Education | 3.000 | 3.000 | 0.000 | |
| 2101081139 | Physical Culture | 3.000 | 3.000 | 0.000 | |
| 2201081140 | Development and Environment | 3.000 | 3.000 | 0.000 | |
| 0110108104 | Energy and its Sources | 3.000 | 3.000 | 0.000 | |
| 0110108113 | Biotechnology and Society | 3.000 | 3.000 | 0.000 | |
| 0110108114 | Automobile Essentials | 3.000 | 3.000 | 0.000 | |
| 0110108115 | Computer Ethics | 3.000 | 3.000 | 0.000 | |
| 0110108130 | Health and Nutrients | 3.000 | 3.000 | 0.000 | |
| 0110108131 | Health Education and First Aid | 3.000 | 3.000 | 0.000 | |
| 0110108132 | Sport and Health | 3.000 | 3.000 | 0.000 | |
| 0140108134 | Ethics in Natural Science | 3.000 | 3.000 | 0.000 | |
| 0170108135 | Reproductive Health | 3.000 | 3.000 | 0.000 | |
| 0140108166 | Pharmaceutical Edification | 3.000 | 3.000 | 0.000 | |

University Requirements Credit Hours : 27
Requirement type : Elective Credit Hours :9

| Course Number | Course Name | Credit Hours | Theoretical | Practical | Pre - Requisite |
|----------------------|-------------------------------|---------------------|--------------------|------------------|------------------------|
| 0121601105 | Applied Arabic Language | 3.000 | 3.000 | | |
| 0121602102 | Applied English Language | 3.000 | 3.000 | 0.000 | |
| 0121602103 | Technical Translation | 3.000 | 3.000 | 0.000 | |
| 0141603101 | Italian Language | 3.000 | 3.000 | | |
| 0151603102 | Japanese Language (Level 1) | 3.000 | 3.000 | 0.000 | |
| 0121603201 | Spanish Language (1) | 3.000 | 3.000 | | |

Faculty Requirements Credit Hours : 22
Requirement type : Compulsory Credit Hours :22

| Course Number | Course Name | Credit Hours | Theoretical | Practical | Pre - Requisite |
|----------------------|--------------------------------------|---------------------|--------------------|------------------|------------------------|
| 0151003260 | Fundamentals of Software Engineering | 3.000 | 3.000 | 0.000 | 151001110 |
| 1910011100 | Introduction to Programming | 3.000 | 3.000 | 0.000 | |
| 1910011101 | Introduction to Programming Lab | 1.000 | 0.000 | 2.000 | 1910011100 synchronous |
| 1910011123 | Digital Logic Design | 3.000 | 3.000 | 0.000 | 110101152 |
| 1910011250 | Data Structures | 3.000 | 3.000 | 0.000 | 1910011111 |
| 0110101152 | Discrete Mathematics | 3.000 | 3.000 | 0.000 | |
| 0110108101 | Calculus (1) | 3.000 | 3.000 | 0.000 | |
| 0110108103 | Principles of Statistics | 3.000 | 3.000 | 0.000 | |

Specialization Requirments Credit Hours : 83
Requirement type : Compulsory Credit Hours :71

| Course Number | Course Name | Credit Hours | Theoretical | Practical | Pre - Requisite |
|---------------|--------------------------------------|--------------|-------------|-----------|-------------------------|
| 0151002240 | Introduction to Database Systems | 3.000 | 3.000 | 0.000 | 151001250 |
| 0151002241 | Introduction to Database Systems Lab | 1.000 | 0.000 | 2.000 | 151002240 synchronous |
| 0151002310 | Programming of Internet Applications | 3.000 | 3.000 | 0.000 | 151001110 OR 151001212 |
| 0151002470 | System Analysis & Design | 3.000 | 3.000 | 0.000 | 151002240 |
| 0151002471 | Information Systems Security | 3.000 | 3.000 | 0.000 | 151002240 |
| 1910011110 | Object Oriented (1) | 3.000 | 3.000 | 0.000 | 1910011101 |
| 1910011111 | Object Oriented Lab (1) | 1.000 | 0.000 | 3.000 | 1910011110 synchronous |
| 1910011212 | Object Oriented (2) | 3.000 | 3.000 | 0.000 | 1910011110 |
| 1910011213 | Object Oriented Lab (2)□ | 1.000 | 0.000 | 3.000 | 1910011212 synchronous |
| 1910011214 | Visual Programming | 3.000 | 3.000 | 0.000 | 1910011110 |
| 1910011215 | Visual Programming Lab□ | 1.000 | 0.000 | 2.000 | 1910011214 synchronous |
| 1910011240 | Theory of Computation□ | 3.000 | 3.000 | 0.000 | 110101152 |
| 1910011320 | Computer Networks | 3.000 | 3.000 | 0.000 | 1910011123 |
| 1910011351 | Algorithms□ | 3.000 | 3.000 | 0.000 | 1910011250 |
| 1910011423 | Parallel and Distributed Computing | 3.000 | 3.000 | 0.000 | 1910011320 |
| 1910011431 | Operating Systems□ | 3.000 | 3.000 | 0.000 | 1910011123 |
| 1910011460 | Artificial Intelligence | 3.000 | 3.000 | 0.000 | 1910011250 |
| 1910011480 | Practical Training | 3.000 | 0.000 | 0.000 | |
| 1910011490 | Applied Project (1)□ | 1.000 | 1.000 | 0.000 | |
| 1910011491 | Applied Project (2) | 2.000 | 0.000 | 4.000 | 1910011490 |
| 1701081136 | General Physics (1) | 3.000 | 3.000 | 0.000 | |
| 0110101102 | Calculus (2) | 3.000 | 3.000 | 0.000 | 110108101 |
| 0110101241 | Linear Algebra (1) | 3.000 | 3.000 | 0.000 | |
| 0110101408 | Numerical Methods | 3.000 | 3.000 | 0.000 | 111001110 AND 110101241 |
| 0110102102 | General Physics (2) | 3.000 | 3.000 | 0.000 | 1701081136 |

Specialization Requirments Credit Hours : 83
Requirement type : Compulsory Credit Hours :71

| Course Number | Course Name | Credit Hours | Theoretical | Practical | Pre - Requisite |
|----------------------|---------------------------------------|---------------------|--------------------|------------------|------------------------|
| 0110102103 | General Physics Laboratory (1) | 1.000 | 0.000 | 3.000 | 1701081136 synchronous |
| 0110408240 | Computer Design and Organization | 3.000 | 3.000 | 0.000 | 110408220 OR 111001123 |
| 0110408343 | Fundamentals of Computer Architecture | 3.000 | 3.000 | 0.000 | 110408240 |

Specialization Requirments Credit Hours : 83
Requirement type : Elective Credit Hours :12

| Course Number | Course Name | Credit Hours | Theoretical | Practical | Pre - Requisite |
|---------------|--|--------------|-------------|-----------|-----------------|
| 0151002351 | Data Mining | 3.000 | 3.000 | 0.000 | 151001351 |
| 0151003437 | User Interface Design & Implementation | 3.000 | 3.000 | 0.000 | 151001212 |
| 1910011321 | Internet Protocols | 3.000 | 3.000 | 0.000 | 1910011320 |
| 1910011322 | Mobile Application Development | 3.000 | 3.000 | 0.000 | 1910011212 |
| 1910011330 | Multimedia Programming | 3.000 | 3.000 | 0.000 | 1910011250 |
| 1910011341 | Operation Research | 3.000 | 3.000 | 0.000 | 110101408 |
| 1910011373 | Simulation | 3.000 | 3.000 | 0.000 | 1910011250 |
| 1910011416 | Programming Languages Design | 3.000 | 3.000 | 0.000 | 151002310 |
| 1910011421 | Wireless Networking | 3.000 | 3.000 | 0.000 | 1910011320 |
| 1910011422 | Network Security | 3.000 | 3.000 | 0.000 | 1910011320 |
| 1910011474 | Computer Graphics □ | 3.000 | 3.000 | 0.000 | 1910011250 |
| 1910011492 | Special Topics In Computer Science | 3.000 | 3.000 | 0.000 | |

Pre-Requist Courses Credit Hours : 0
Requirement type : Credit Hours :0

| Course Number | Course Name | Credit Hours | Theoretical | Practical | Pre - Requisite |
|---------------|---------------------------------|--------------|-------------|-----------|-----------------|
| 0001001096 | Computer Skills Test | 0.000 | 0.000 | 0.000 | |
| 0110108099 | Computer Skills/ Prerequisite | 3.000 | 3.000 | 0.000 | 1001096 |
| 0002110096 | Arabic Placement Test | 0.000 | 0.000 | 0.000 | |
| 0002120096 | English Placement Test | 0.000 | 0.000 | 0.000 | |
| 0111405098 | Arabic Language / Pre-requisite | 3.000 | 3.000 | 0.000 | 2110096 |
| 0111405099 | English Language/ pre-requisite | 3.000 | 3.000 | 0.000 | 2120096 |

free study materials are (3) credit hours, The student chooses it from any of the courses offered by the university departments.