AAU's Computer Science	**Polytechnic Computer Engineering**
200 level First semester Courses 1. Web Development 2. File Orgainisation 3. Computer Proramming 1 (Java) 4. Object Oriented programming 5. Computer Hardware 6. Mathemmatical Methods 7. Elementary Differential Equations	HND 1 Semester 1 Courses 1. Engineering Society 2. Mathematics III (Advanced Algebra) 3. Electrical Circuit Theory III 4. Electronic III 5. Telecommunication Engineering II 6. Computer Programming, C programming 7. Operating systems II 8. Electronic Design and Prototyping 9. Computer Installation and Maintenance

200 Level Second Semester Courses	HND 1 Semester 2 Courses
1. Data Structures & Algorithms 2. Information Processing 3. Assembly Language Programming 4. Numerical Methods I 5. Computer Programming II (PYTHON) 6. Introduction to Simulation Methods 7. Peace And Conflict Resolution Studies	1. Communication in English III 2. Industrial Management 3. Mathematics (Advanced Calculus) 4. Electrical Circuit Theory IV 5. Control Engineering I 6. Electronics IV 7. Testing Methods and Reliability 8. Computer Hardware System Design 9. Wireless and wireless Communications 10. Python Programming

300 level First semester Courses 1. Introduction to Digital Design 2. Operating Systems 3. Computer Architecture 4. Automata Theory, Computability & Formal Languages. 5. Artificial Intelligence (AI) 6. System Analysis and Design 7. Compiler Construction 8. Introduction to Operations Research 9. Discrete Mathematics	HND2 Semester 1 Courses 1. Communication in English IV 2. Mathematics (Numerical Methods) 3. Entrepreneurship Development 4. Control Engineering II 5. Computer Technology 6. Data Communication and Computer Networks 7. Computer Architecture II 8. Microprocessor and Embedded Systems 9. Computer Graphics and Animation

300 level second semester Courses 1. Students Industrial Work Experience (SIWES) 2. Fundamental of Digital Electronics 3. Introduction to Logic/Circuit Design 4. File Structure for on-line System 5. Computer Control System 6. Business Processing System 7. Research Methods in Science 8. Optimization Theory	HND2 Semester 2 Coursess 1. Mathematics IV (Statistical Methods) 2. Microprocessor in Control and Instrumentation 3. Artificial Intelligence 4. Project Management 5. Introduction to Digital Signal Processing 6. Seminar (New trends in Computer Engineering) 7. Project

400 level First Semester Courses 1. Organization of Programming Language 2. Software Engineering 3. System Modeling and Simulation 4. Real Time Computing 5. Computer Graphics 6. Seminar 7. Design and Analysis of Algorithms 8. Numerical Methods	Nothing…

400 level second semester Courses 1. Project 2. Computer Performance Evaluation 3. Data Communication and Networking 4. Database Management System (DBMS) 5. Computer Installation and Management 6. Distributed Computing 7. Experts Systems 8. Microprocessor in Auto mailing System 9. Software Reliability 10. Digital Computing Technique 11. Distributed Computer Control 12. System Reliability & Maintenance 13. Computer Based Management Techniques	Nothing...