

Course Title and Code	CS221- Assembly Language
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I. Course Identification and General Information:

Course Title	Assembly Language.	Course Code	CS221	Pre-requisite	COE223
Department	Computer Science	Course Level	6	Credit Hours	3(2+1)

II. Course Description/Topics: The following course topics will be covered.

<ul style="list-style-type: none"> • Basic Features of PC Hardware. • Instruction Addressing and Execution. • Examining Computer Memory and Executing Instruction. • Requirement for Coding in Assembly Language. • Assembling Linking and Executing Programs. • Symbolic instruction and addressing. • Program Logic and Control. • Processing String Data.
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III. Course Outcomes: Summary of the main learning outcomes for students enrolled in the course

<p>Understanding the following Subjects:</p> <ul style="list-style-type: none"> • Basic Features of PC Hardware. • Instruction Addressing and Execution. • Examining Computer Memory and Executing Instruction. • Requirement for Coding in Assembly Language. • Assembling Linking and Executing Programs. • Symbolic instruction and addressing. • Program Logic and Control. • Processing String Data.

IV. Required Text:

<ul style="list-style-type: none"> • Text book: "IBM PC Assembly Language and Programming, Fifth Edition, Peter Abel.
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V. References:

<ul style="list-style-type: none"> • Text book: Intel microprocessor, Fifth Edition, Barry B. Bray.
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