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| COURSE TITLE | TE142340: Discrete Mathematics and Graph Theory Credits: 2 Semester: I |
| LEARNING OBJECTIVES | Students have the knowledge about data structures and algorithms, and also have the ability to use them in many classification and optimization problems. |
| COMPETENCY | <ul style="list-style-type: none"> • Students understand basic concepts in discrete mathematics and graph theory. • Students can solve classification and optimization problems in graph. |
| SUBJECTS | <ul style="list-style-type: none"> • Logics, sets and functions. • Recursive algorithms and computational complexity. • Relations. • Tree. • Graph. |
| MAIN REFERENCES | <ul style="list-style-type: none"> • Rosen, <u>Discrete Mathematics</u>, Prentice Hall Inc, 1999. • Cormen T., Leiserson C., Rivest R., Stein C., <u>Introduction to Algorithms</u>, 2nd Edition, Mc Graw Hill international Edition, 2004. |
| OPTIONAL REFERENCES | Selected papers from IEEE transactions. |
| PREREQUISITE | |