

Undergraduate Committee (UGC) Activities Summary for 2018-2019

Served as Chair of the Undergraduate Committee

- Conducted sixteen meetings and the resolutions of all meetings are accessible at <http://users.cis.fiu.edu/~prabakar/ugc/2018-19/>
- Responsible for identifying undergraduate curriculum issues, discuss them at the meetings, and present motions for faculty approval that include
 - * Reviewed prerequisite requirements for COT 3100 “Discrete Structures” and updated it
 - * Resolved two versions of English Technical Writing courses with English Department and updated SCIS undergraduate catalog
 - * Prepared Course change proposal for the prerequisite change for COP-2210 “Programming I”.
 - * Revised the Learning Outcomes of COT-3100 “Discrete Structures”
 - * Reviewed BS-IT programming courses and evaluated Python programming language for COP-2250 “Intro to Programming”.
- Completed the following four undergraduate new course proposals in Fall’18 for 2018-2019 Bulletin# 3:
 - CAP-2752 Fundamentals of Data Science
 - CAP-2750 Data Analytics for the Internet of Things
 - CTS-4743 Enterprise IT Troubleshooting
 - IDC-2002 Artificial Intelligence for All
- Introduced a new approach of embedding course syllabi links directly on all course flowcharts (BA-in-CS, BS-in-CS, BS-in-SDD, BA-in-IT, BS-in-IT). This will provide seamless access to course syllabi for students/advisors/faculty.
- Lead the UGC committee to review the entire undergraduate program in six meetings to improve both the student graduation rate and job placement rate with the following three objectives:
 - a) To provide flexibility for CS students with additional elective course options to widen their skills.
 - b) To streamline the prerequisite chain among CS courses.
 - c) To fulfill the latest ACM guidelines for accreditation.
- Reviewed CS curriculum in ten well known schools in the nation (Within Florida: UCF, USF, UF and Outside Florida: Cornell, Dartmouth, Duke, Princeton, Purdue, Stanford, Maryland).
- Reduced the number of required courses from 16 to 10 and improved the options for students to specialize in emerging technologies by increasing the number of elective courses from 3 to 9.

- Modified prerequisite dependencies among the restructured courses and updated course flowcharts for all six undergraduate CS degree programs.
- Coordinated with Prof. Laura De Carli, Chair of Math Department and Prof. Shekhar Bhansali, Chair of ECE Department on courses that overlap disciplines for their approval on course proposed changes.
- Presented the newly restructured curriculum model with justification for each proposed change on 4/22/19 and submitted the following list of nine curriculum proposals for Bulletin# 6 (effective from Spring'20):
 - New course proposal for CDA 3XXX Computer Architecture
 - Course change proposals for
 - CEN 4010 Software Engineering I
 - CIS 4911 Senior Project
 - COP 4338 Programming III
 - COP 4610 Operating Systems Principles
 - Catalog changes for the following undergraduate programs
 - BS in CS Degree
 - BA in CS Degree
 - BS in IT - Software Major
 - Minor in CS