M.V.R. DEGREE COLLEGE

(Affiliated to Andhra University)
An Institution of Priyadarshini Educational Academy)
NAAC ACCREDITED COLLEGE

Dr.V.Rama Rao, M.A.,Ph.D.,
Secretary & Correspondent

Dr.A.Balakrishna,M.Sc.,Ph.D.,
Principal

DEPARTMENT OF COMPUTER SCIENCE

The Department of Computer Science, Serves BSc Programme students to excel in the field of Computer Science and IT industry. The department offers Computer Science in three core combinations Mathematics - Physics - Computer Science, Mathematics – Statastics - Computer Science and Mathematics – Electronics - Computer Science of BSc. programme. It also provides B.Com Vocational as part of computer science.

Programme Specific Outcomes of BSc Programme with Computer Science(2015-16 Admitted)

PSOs: Students after graduating with computer science as one of the core subjects will have:

PSO 1: Be able to demonstrate basic knowledge in the core areas of computer science (Photoshop, Programming with C, Object Oriented Programming through Java, Data Structures, Database Management System, Web Technologies, Software Engineering, PHP &MYSQL, WORDPRESS and Advanced Javascript).

PSO 2: Ability to analyze and use a range of programming languages and tools to develop computer programs that are effective to solve the problems in the practical courses

PSO 3: Ability to work in teams to build software solutions including Web site design and development and database management by applying various technologies .

Assessment Methodology

PSO 1: Be able to demonstrate basic knowledge in the core areas of computer science

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(Programming with C, Object Oriented Programming through Java, Data Structures, Operating Systems, Database Management System, Web Technologies, Software Engineering, PHP &MYSQL, WORDPRESS and Advanced Javascript).

Direct method of computing PSO 1 attainment is based on the student performance in all assessment instruments namely online and offline - subjective and objective tests for all the courses offered (CS1-1, CS1-2, CS21,CS2-2, CS31-1,CS31-2,CS32-1CS32-2,CS

These exams test student's knowledge, understanding and application levels in the respective courses. Indirect method of computing PSOs is done through student's course exit survey wherein a structured questionnaire is administered to the students and their response is solicited on a 5 point scale. Responses are consolidated and student's satisfaction level with reference to course transaction is computed.

Assessment of all the theory courses is done in two parts, namely by formative assessment (25%) which is internal and summative assessment (75%) which is external. The evaluation of 100% of the assessment in each semester is distributed as follows:

Mid SemesterExamination1	10% (which is
offline) Mid SemesterExamination2	10%(which is
offline)	
Attendance	5% (above 75% attendance will berewarded)
Endsemester examination	75% (which is descriptive)

PSO 2: Ability to analyze and use a range of programming languages and tools to

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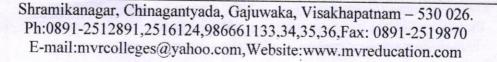|	
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develop computer programs that are effective to solve the problems in the practical courses (CS11, CS12, CS21,CS22, CS31-1,CS31-2,CS32-1CS32-2,CS32-3)

Assessment of all the practical courses: Assessment is done through end semester practical exams and viva-voce to test student's knowledge as well as skills in programming to get desired results. A written record of experimental work carried out throughout the semester is also assessed.

PSO 3: Ability to work in teams to build software solutions including Web site design and development and database management by applying various technologies.

Attainment of PSO 3 is ascertained through the practical course CS32-3 by assessing project study as one of the experiments. This project work provides an opportunity for the student to apply knowledge and skills obtained in computer Science theory and practical coursework. Students choose one topic based on their own interest. The Project work can be carried out in the college and a Coordinator will be appointed to coordinate

the Project Work. Internal guides from the department will be assigned to the students. Periodically (weekly) the students should submit project Task Report to their internal guide. Reviews will be conducted followed by collective report submission and individual oral presentation before the Final Viva-Voce. Attainment of this learning outcome is ensured and assessed by the concerned faculty member at every stage through guidance andmonitoring.

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Programme Specific Outcomes of BSc Programme with Computer Science(2019-Admitted)

PSOs: Students after graduating with computer science as one of the core subjects will have:

PSO 1: Be able to demonstrate basic knowledge in the core areas of computer science Problem Solving in C, Data Structures, Database Management System, Object Oriented Programming through Java, Operating systems).

PSO 2: Ability to analyze and use a range of programming languages and tools to develop computer programs that are effective to solve the problems in the practical courses

PSO 3: Ability to work in teams to build software solutions including Web site design and development and database management by applying various technologies .

Assessment Methodology

PSO 1: Be able to demonstrate basic knowledge in the core areas of computer science (Problem Solving in C, Data Structures, Database Management System, Object Oriented Programming through Java, Operating systems).

Direct method of computing PSO 1 attainment is based on the student performance in all assessment instruments namely online and offline - subjective and objective tests for all the courses offered (C1, C2, C3, C4,C5)

These exams test student's knowledge, understanding and application levels in the respective courses. Indirect method of computing PSOs is done through student's course

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exit survey wherein a structured questionnaire is administered to the students and their response is solicited on a 5 point scale. Responses are consolidated and student's satisfaction level with reference to course transaction is computed.

Assessment of all the theory courses is done in two parts, namely by formative assessment (25%) which is internal and summative assessment (75%) which is external. The evaluation of 100% of the assessment in each semester is distributed as follows:

Mid SemesterExamination1   10% (which is

offline) Mid SemesterExamination2   10%(which   is

offline)

Attendance   5% (above 75% attendance will berewarded)

Endsemester examination   75% (which is descriptive)

PSO 2: Ability to analyze and use a range of programming languages and tools to develop computer programs that are effective to solve the problems in the practical courses (C1-P, C2-P,C3-P,C4-P,C5-P)

Assessment of all the practical courses: Assessment is done through end semester practical exams and viva-voce to test student's knowledge as well as skills in programming to get desired results. A written record of experimental work carried out throughout the semester is also assessed.

PSO 3: Ability to work in teams to build software solutions including Web site design and development and database management by applying various technologies .

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Attainment of PSO 3 is ascertained through the practical course by assessing project study as one of the experiments. This project work provides an opportunity for the student to apply knowledge and skills obtained in computer Science theory and practical coursework. Students choose one topic based on their own interest. The Project work can be carried out in the college and a Coordinator will be appointed to coordinate the Project Work. Internal guides from the department will be assigned to the students. Periodically (weekly) the students should submit project Task Report to their internal guide. Reviews will be conducted followed by collective report submission and individual oral presentation before the Final Viva-Voce. Attainment of this learning outcome is ensured and assessed by the concerned faculty member at every stage through guidance and monitoring.

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