



BVC COLLEGE OF ENGINEERING

RAJAHMUNDRY, ANDHRA PRADESH

Approved by AICTE, Permanently Affiliated to JNTUK, Graded 'A' by NAAC

Recognized by UGC under section 2(f) and 12(B) of UGC Act, 1956



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Done
Copy of Revised Regs.
Regulation. VR23 MCA

2023

Master of Computer Applications

ACADEMIC REGULATIONS

BVC COLLEGE OF ENGINEERING

(AUTONOMOUS)

Palacherla, Rajamundry, E. G. Dist, A.P, India – 533 102

BVC COLLEGE OF ENGINEERING (AUTONOMOUS)

PALACHERLA-RAJAHMUNDRY

Approved by AICTE, Permanently Affiliated to JNTUK, Graded 'A' by NAAC

MASTER OF COMPUTER APPLICATIONS (MCA)

(For Two-Year PG Programme)

ACADEMIC REGULATIONS (VR23)

For

Master of Computer Applications (MCA) Programme

(Duration: Two Years)

(Applicable for the batches admitted from the A.Y. 2023-24)



BVC COLLEGE OF ENGINEERING

(AUTONOMOUS)

ACADEMIC REGULATIONS

Applicable for the students of Master of Computer Applications (MCA) PG Programme admitted from the Academic Year 2023-24 onwards. The MCA Degree of BVC College of Engineering Rajahmundry shall be conferred on candidates who are admitted to the program and who fulfill all the requirements for the award of the Degree.

1.0 ELIGIBILITY FOR ADMISSIONS

Admission to the above program shall be made subject to eligibility, qualification and specialization as prescribed by the Autonomous Exam section of the college from time to time.

Admissions shall be made on the basis of merit rank obtained by the candidates at ICET examination or the qualifying Entrance Test conducted by the University or on the basis of any other order of merit as approved by the University, subject to reservations as laid down by the Govt. from time to time.

2.0 AWARD OF MCA DEGREE

A student shall be declared eligible for the award of the MCA Degree, if he pursues a course of study and completes it successfully in not less than two academic years and not more than Four academic years.

The student shall register for all 80 credits and secure all the 80 credits.

The minimum instruction days in each semester are 90.

A Student, who fails to fulfill all the academic requirements for the award of the degree within Four academic years from the year of their admission, shall forfeit his seat in MCA course.

Credit Definition:

1 Hour Lecture (L) per week	1 Credit
1 Hour Tutorial (T) per week	1 Credit
1 Hour Practical (P) per week	0.5 Credit
2 Hours Practical (Lab) per week	1 Credit



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3.0 ATTENDANCE

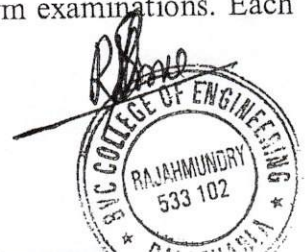
- A candidate shall be deemed to have eligibility to write end semester examinations if he has put in a minimum of 75% of attendance in aggregate of all the subjects.
 - A student is eligible to write the college examinations if he acquires a minimum of 40% in each subject and 75% of attendance in aggregate of all the subjects.
 - Condonation of shortage of attendance up to 10% i.e., 65% and above, and below 75% may be given for a **maximum of TWO times** by the college academic committee.
 - Condonation of shortage of attendance shall be granted only on genuine and valid reasonson representations by the candidate with supporting evidence.
 - Shortage of attendance below 65 % in aggregate shall in **NO case be condoned and noteligible to write their end semester examination of that class.**
 - A candidate shall not be promoted to the next semester unless; he fulfills the attendancerequirements of the previous semester.
 - A stipulated fee of Rs 500/- shall be payable towards condonation fee for shortage of attendance. Students availing condonation on medical ground shall produce a medical certificate issued by the competitive authority.
 - A student shall not be promoted to the next semester unless he satisfies the attendance requirement of the present semester, as applicable. They may seek readmission into that semester when offered next. If any candidate fulfills the attendance requirement in the present semester, he shall not be eligible for readmission into the same class.

4.0 EVALUATION

The performance of the candidate in each semester shall be evaluated subject-wise, with a maximum of 100 marks both for theory and practicals on the basis of continues Internal Exams and End Semester Examination.

Continuous Internal Evaluation:Theory

- (a) For theory subjects, during a semester, there shall be two mid-term examinations. Each



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midterm examination shall be conducted for a total duration of 120 minutes with 4 questions (without choice) each question for 10 marks, and it will be reduced to 30 marks.

- (b) The descriptive examination is set with 4 full questions from first two and half units (50% of the syllabus), the student has to answer all questions. In the similar lines, descriptive examination shall be conducted on the rest of the syllabus.
- (c) The first mid (Mid-1) marks shall be submitted to the Autonomous Exam section of the college examination section within one week after completion of first mid examination.
- (d) The mid marks submitted to the Autonomous Exam section of the college examination section shall be displayed in the concerned college notice boards for the benefit of the students.
- (e) If any discrepancy found in the submitted Mid-1 marks, it shall be brought to the notice of Autonomous Exam section of the college examination section within one week from the submission.
- (f) Second mid examination shall be conducted on the similar lines of mid-1 and its mid (Mid-2) marks shall also be submitted to Autonomous Exam section of the college examination section within one week after completion of second mid examination and it shall be displayed in the notice boards. If any discrepancy found in the submitted mid-2 marks, it shall be brought to the notice of Autonomous Exam section of the college within one week from the submission.
- (g) Internal marks can be calculated with 80% weightage for better of the two mids and 20% weightage for another mid exam.
- (h) With the above criteria, Autonomous Exam section of the college examination section will send mid marks of all subjects in consolidated form to all the concerned colleges and same shall be displayed in the concerned college notice boards. If any discrepancy found, it shall be brought to the notice of Autonomous Exam section of the college examination section through proper channel within one week with all proofs. Discrepancies brought after the given deadline will not be entertained under any circumstances.

End Semester Theory Examination Evaluation: Theory:

The end semester examinations shall be conducted by the Autonomous Exam section of the college examination section for 70 marks consists of five questions carrying 14 marks each. Each of



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these questions may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

Laboratory Evaluation:

Internal Evaluation: The internal marks for laboratory are 30 marks and the marks shall be awarded based on the day to day work: 5 marks, Record: 5 marks and the remaining 20 marks to be awarded by conducting an internal laboratory test.

External Evaluation: For external marks for laboratory are 70 and marks shall be awarded based on the performance in the end laboratory examinations. Laboratory examination must be conducted with two Examiners, one of them being the Laboratory Class Teacher and the second examiner shall be appointed by the Autonomous Exam section of the college from the panel of examiners submitted by the respective college. Laboratory examination must be conducted with a breakup marks of Procedure-20, Experimentation-25, Results-10, Viva- voce-15.

Internship:

There shall be an internship / industry oriented mini project/ skill development course, one need to complete during year break (i.e., II-Sem to III-Sem) and will be evaluated for 50 marks internally at the end of III Semester by the departmental committee.

- A candidate has to secure a minimum 50% of marks to be declared successful.
- The internship can be done by the students at Govt. Organizations, Industries, Internsala and also in top software MNCs.
- The student has to produce the summer internship satisfactory report and certificate taken from the organization to be considered for evaluation.
- The College shall facilitate and monitor the student internship programs. Completion of internships is mandatory, if any student fails to complete internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.
- The minimum duration of this course shall be at least 6 weeks. The student shall register for the internship as per course structure after commencement of academic year.
- A supervisor/mentor/advisor/coordinator has to be allotted to Guide the students for taking up the summer internship.
- After successful completion, students shall submit a summer internship technical report to the concerned department and appear for an Presentation/Viva-Voce and Report submission before the departmental committee consists of Head of the Department, guide/coordinator of the internship and a senior faculty member of the department.
- The detailed procedure is furnished in the Annexure-I.



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- For skill development course the certificate has to be verified and submitted to the University. A candidate has to secure a minimum 50% of marks to be declared successful.
- For Socially Relevant Project using design thinking and Employability Skills the evaluation will be for 25 marks internally at the end of the Semester by the departmental committee. A candidate has to secure a minimum 50% of marks to be declared successful.
- For Bridge course, the course shall be taken on MOOCS platform, the candidate has to get a satisfactory report upon successful completion, and the same shall be communicated to the Autonomous Exam section of the college as Completed or Not Completed.
- A candidate shall be deemed to have secured the minimum academic requirement in a subject if he secures a minimum of 40% of marks in the End semester Examination and a minimum aggregate of 50% of the total marks in the End Semester Examination and Internal Evaluation taken together.
- In case the candidate does not secure the minimum academic requirement in any subject (as specified in 4.7) he has to reappear for the End semester Examination in that subject. A candidate shall be given one chance to re-register for each subject provided the internal marks secured by a candidate are less than 50% and has failed in the end examination. In such a case, the candidate must re-register for the subject(s) and secure the required minimum attendance. The candidate's attendance in the re-registered subject(s) shall be calculated separately to decide upon his eligibility for writing the end examination in those subject(s). In the event of the student taking another chance, his internal marks and end examination marks obtained in the previous attempt are nullified. For re-registration the candidates have to apply to the Autonomous Exam section of the college through the college by paying the requisite fees and get approval from the Autonomous Exam section of the college before the start of the semester in which re-registration is required. At a given time a candidate is permitted to re-register for maximum of two subjects in addition to the subjects of regular semester.
- In case the candidate secures less than the required attendance in any re registered subject(s), he/she shall not be permitted to write the End Semester Examination in that subject. He shall again re-register the subject when next offered.
- Laboratory examination for MCA courses must be conducted with two Examiners, one of them being the Laboratory Class Teacher or teacher of the respective college and the second



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examiner shall be appointed by the Autonomous Exam section of the college from the panel of examiners submitted by the respective college.

- A candidate shall be allowed to submit the project report only after fulfilling the attendance requirements of all the semesters. The viva-voce examination shall be conducted at the end of the course work (4th semester).

EVALUATION OF PROJECT/DISSERTATION WORK

- Every candidate shall be required to submit a thesis or dissertation on a topic approved by the Project Review Committee.
- A Project Review Committee (PRC) shall be constituted with Head of the Department and two other senior faculty members (one will be the guide).
- **Registration of Project Work:** A candidate is permitted to register for the project work after satisfying the attendance requirement of all the subjects, both theory and practical up to III semester.
- After satisfying 5.2, a candidate has to submit, in consultation with his project supervisor, the title, objective and plan of action of his project work to the Project Review Committee for approval. The student can initiate the Project work, only after obtaining the approval from the Project Review Committee (PRC) after the III semester end examinations. The duration of the project is for one semester.
- If a candidate wishes to change his supervisor or topic of the project, he can do so with the approval of the Project Review Committee (PRC). However, the Project Review Committee (PRC) shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of project proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.
- A candidate shall submit his status report in two stages at least with a gap of ONE month between them.
- The work on the project shall be initiated at the beginning of the Sixth semester and the duration of the project is one semester. A candidate is permitted to submit Project Thesis only after the approval of PRC not earlier than 20 weeks from the date of registration of the project work. The candidate has to pass all the theory and practical subjects before submission of the Thesis. For the approval of PRC the candidate shall submit the draft copy of thesis to the Principal (through



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Head of the Department) and shall make an oral presentation before the PRC.

- Three copies of the Project Thesis certified by the supervisor shall be submitted to the College along with **plagiarism report (<50%)**.
- The thesis shall be adjudicated by one examiner selected by the Autonomous Exam section of the college. For this, the Principal of the College shall submit a panel of 5 examiners, eminent in that field, with the help of the guide concerned and head of the department.
- If the report of the examiner is not favorable, the candidate shall revise and resubmit the Thesis, in the time frame as decided by the PRC. If the report of the examiner is unfavorable again, the thesis shall be summarily rejected. The candidate has to re-register for the project and complete the project within the stipulated time after taking the approval from the Autonomous Exam section of the college.
- If the report of the examiner is favorable, a board consisting of the Supervisor, Head of the Department and the examiner approved by the Autonomous Exam section of the college who adjudicated the thesis shall conduct Viva-Voce examination. The Board shall jointly report the candidate's work for a **maximum of 100 Marks**. The Head of the Department shall coordinate and make arrangements for the conduct of Viva-Voce examination.
- If the report of the Viva-Voce is **unsatisfactory (i.e., <50 marks)**, the candidate shall retake the Viva-Voce examination only after three months. If he fails to get a satisfactory report at the second Viva-Voce examination, the candidate has to re-register for the project and complete the project within the stipulated time after taking the approval from the Institution.

6.0 Cumulative Grade Point Average (CGPA)

Marks Range (Max – 100)	Level	Letter Grade	Grade Point
≥ 90	Outstanding	A+	10
≥80 to <89	Excellent	A	9
≥70 to <79	Very Good	B	8
≥60 to <69	Good	C	7
≥50 to <59	Satisfactory	D	6
<50	Fail	F	0
-	Absent	AB	0



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Computation of SGPA

The following procedure is to be adopted to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

The **SGPA** is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.,

$$\text{SGPA (Si)} = \frac{\sum (C_i \times G_i)}{\sum C_i}$$

Where C_i is the number of credits of the i^{th} course and G_i is the grade point scored by the student in the i^{th} course.

Computation of CGPA

The **CGPA** is also calculated in the same manner taking into account all the courses undergone by a student over all the semester of a programme, i.e.,

$$\text{CGPA} = \frac{\sum (C_i \times S_i)}{\sum C_i}$$

Where S_i is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester. The SGPA and CGPA shall be rounded off to TWO decimal points and reported in the transcripts.



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7.0 AWARD OF DEGREE AND CLASS

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of M.C.A. Degree he shall be placed in one of the following four classes:

Class Awarded	CGPA to be secured	
First Class with Distinction	≥ 7.75 (Without any supplementary appearance)	
First Class	≥ 7.75 (With any supplementary appearance) ≥ 6.75 and < 7.75 (Without any supplementary appearance)	From the CGPA secured from 80 Credits.
Second Class	≥ 6.75 and < 7.75 (With any supplementary appearance) ≥ 6.0 to < 6.75 (Without any supplementary appearance)	
Pass Class	≥ 6.0 to < 6.75 (With any supplementary appearance)	

The secured grade, grade points, status and credits obtained will be shown separately in the memorandum of marks.

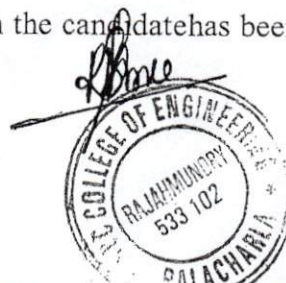
8.0 WITHHOLDING OF RESULTS

If the student is involved in indiscipline/malpractices/court cases, the result of the student will be withheld.

9.0 TRANSITORY REGULATIONS

Discontinued or detained candidates are eligible for readmission (within the duration as mentioned in item 2.1) as and when next offered.

The readmitted students will be governed by the regulations under which the candidate has been



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admitted.

Minimum Instruction Days

The minimum instruction days for each semester shall be 90 working days. There shall be no transfer from one college to another within the Constituent Colleges and Units of Jawaharlal Nehru Technological Autonomous Exam section of the college Kakinada.

11.0 GENERAL

Wherever the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers". The academic regulation should be read as a whole for the purpose of any interpretation. In the case of any doubt or ambiguity in the interpretation of the above rules/regulations, the decision of the Vice-Chancellor is final.

The Autonomous Exam section of the college may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the Autonomous Exam section of the college.

