VEER BAHADUR SINGH PURVANCHAL UNIVERSITY, JAUNPUR, UTTAR PRADESH

Ordinance Governing Two Years (Four Semesters)

Master of Computer Applications (MCA)

On

Choice Based Credit System

(Effective from the Session: 2025-26)

CHOICE BASED CREDIT SYSTEM (CBCS) ORDINANCE GOVERNING THE 2 YEAR DEGREE OF MASTER OF COMPUTER APPLICATIONS i.e. MCA

CHOICE BASED CREDIT SYSTEM (CBCS)

The choice based credit system provides flexibility in designing curriculum and assigning credits based on the course content and hour of teaching. The choice based credit system provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective and open elective courses. The CBCS provides a cafeteria type approach in which the students can take courses of their choice, learn at their own pace, undergo additional courses and acquired more than the required credits, and adopt an interdisciplinary approach to learning. The courses shall be evaluated on the grading system, which is considered to be better than the conventional marks system. It is necessary to introduce the grading system to make the uniformity among all technical institutions of India. This will benefit the students to move across institutions within India to begin with and across countries. The uniform grading system will also enable potential employers in assessing the performance of the candidates. In order to bring uniformity in evaluation system and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations, the AICTE has formulated the guidelines to be followed.

DEFINITIONS O F KEYWORDS:

(i) **University:** Veer Bahadur Singh Purvanchal University, Jaunpur (VBSPU).

(ii) **Academic Year:** Two consecutive (one odd + one even) semesters constitute on each academic year.

(iii) **Semester:** Each semester will consist of 15-18 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from July to December and even semester from January to June.

(iv) **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses *(Core, Elective and Foundation Courses).*

(v) **Credit Based Semester System (CBSS):** Under the CBSS, the requirement for awarding a degree or certificate is prescribed in terms of number of credits to be earned by the students.

(vi) **Programme:** An educational programme leading toward of a Degree.

(vii) **Course:** Usually referred to, as 'papers' is a component of a programme. All courses need not carry the same weightage. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/tutorials/laboratory work/ field work/ outreach activities/project work/ vocational training/viva/ seminars/term papers/assignments/ presentations/ self-study etc. or a combination of some of these.

(viii) **Branch: Master of Computer Applications**

(ix) **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters O, A^+A, B^+, B, C, P and F.

(x) **Grade Point:** It is a numerical weightage allotted to each letter grade on a 10-point scale.

(xi) **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.

(xii) **Credit Point:** It is the product of grade point and number of credits for a course.

(xiii) **Semester Grade Point Average (SGPA):** It is a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various

courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.

(xiv) **Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.

(xv) **First Attempt:** If a student has completed all formalities and become eligible to attend the examinations and has attended at least one subject of passing, such attempt (first sitting) shall be considered as first attempt.

(xvi) **Transcript or Grade Card or Certificate:** Based on the grades earned, a grade sheet/certificate shall be issued to all the registered students at the end of every academic year. The grade sheet/certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of both semesters and CGPA earned till that academic year.

Credit Structure for Course Work

Lectures(hrs/wk/Sem)	Tutorial(hrs/wk/ Sem)	Lab. Work(hrs/wk/Sem)	Credits
3	1	0	4
2	1	0	3
0	1	0	1
0	0	2	1
0	0	3	2
0	1	3	2
0	1	2	2

1. ADMISSION

Admission to MCA first year in Ist Semester will be made as per the rules prescribed by the Academic Council of the Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh.

Admission on migration of a candidate from any other University to University is not permitted.

2. ELIGIBILITY FOR ADMISSIONS

(i) Passed any graduation degree (e.g.: B.E./B.Tech./B.Sc./B.Com./B.A./B.Voc./BCA etc.,) preferably with mathematics at 10+2 level or at graduation level.

And

Obtained at least 50% marks (45% marks in case of candidates belonging to SC/ST category) in qualifying examination.

(ii) Admission to MCA first Year through Entrance Examination: As per the PUCAT/State level entrance test (UPSEE) organized by any university appointed by Indian/State government.

(iii)The Academic Council shall have power to amend or repeal the eligibility criteria

laid down in clause 2(i) and 2(ii).

3. ATTENDANCE

(i) Every student is required to attend at least 75% of attendance in the the Lectures, Tutorials, Practical Classes and other prescribed curricular and co-curricular activities. The attendance can be condoned upto 25% on medical grounds or for other genuine reasons beyond the control of students.

(ii) A further relaxation of attendance up to 15% for a student can be given by Vice Chancellor provided that he/she has been absent with prior permission of the Head of the institution for the reasons acceptable to him.

(iii)No student will be allowed to appear in the end semester examination if he / she do not satisfy the overall average attendance requirements of Clause No. 3(i), and 3(ii). Such candidate(s) shall be treated as having failed and will be further governed by clause no. 4(ii).

(iv)The attendance shall be counted from the date of admission start of academic session whichever is later.

4. Duration of Course

(i) Total duration of the MCA Course shall be 02(two) years, each year comprising two semesters. Each semester shall normally have teaching for the 90 working days or as prescribed by A.I.C.T.E. from time to time.

(ii) The student admitted to 1st year MCA Course shall complete the course within a period of four (04 Years) academic Years from the date of first admission, failing which he/she has to discontinue the course.

(iii)A Student, who has failed twice in first year due to any reason (either due to his/her non- appearance or he/she being not permitted to appear in semester examinations) shall not be allowed to continue his/her studies further. Provided further that if a student wishes to continue third time in first year he/she may be allowed on the terms and conditions laid down by the University for such permission but the maximum time allowed for completing the course will remain the same as in clause 4(ii).

5. CURRICULUM

(i) The 02(two) Years curriculum has been divided into 04(four) Semesters and shall include Lectures, Tutorials, Practical Labs, Seminars and Projects etc. as defined in the scheme and executive instructions issued by the University from time to time.

(ii) The curriculum will also include other curricular, co-curricular and extra-curricular

activities as may be prescribed by the University from time to time.

6. EXAMINATION

(i) The performance of a student in a semester shall be evaluated through continuous class assessment and end semester examination. The continuous assessment shall be based on class tests, assignments/tutorials, quizzes/viva-voce and attendance. The marks for continuous assessment (Sessional marks) shall be awarded at the end of the semester. The end semester examinations shall be comprised of written papers, practical's and viva-voce, Record of Lab Work, Project Work, Design Reports or by means of any combination of these methods.

(ii) The distribution of marks for sessional, end semester theory papers, practicals and other examinations, seminar, project and industrial training shall be as prescribed by the University in prescribed Course Structure. The practical, viva-voce, projects and reports shall be examined/evaluated through internal and external examiners as and when required, as per University guidelines.

(iii)The marks obtained in a subject shall consist of marks allotted in end semester theory paper and sessional work.

7. ELIGIBILITY OF PASSING

(i) A student who obtained Grades A^+ to P shall be considered as passed. If a student secured "F" grade, he/she has to reappear for the examination. A student who obtained Grades A^+ to P shall be considered as passed. If a student secured "F" grade, he /she has to reappear for the examination. It is mandatory for a student to earn the required credits as mentioned in each semester.

(a) For a pass in a Theory Subject, a student shall secure minimum of 30% of the maximum marks prescribed in the University Examination and 40% of marks in the aggregate marks in the subject including sessional marks. i.e. Minimum Passing Grade is "P".

(b) For a pass in a Practical/Project/Viva-voce examination, a student shall secure a minimum of 50% of the maximum marks prescribed for the University Examination in the relevant Practical/Project/Viva-voce and 40% of marks in the aggregate marks in the Practical/Project/Viva-voce including sessional marks i.e. Minimum Passing Grade in a course is "P".

(ii) The students who do not satisfy the condition 7(i) or the student who remains absent shall be deemed to have failed in that subject and may reappear for the University examination in the subsequent examinations. However, the Sessional marks awarded to the student/s at previous attempt in the concerned subject will be carried forward.

(iii)The student who passes a course of a semester as per 7(i) shall not be allowed to appear

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for the same again.

(iv) A student shall be declared to have completed the program of MCA degree, provided the student has undergone the stipulated course work as per the regulations and has earned minimum credits as per the evaluation scheme.

8. ELIGIBILITY FOR PROMOTION

(i) There shall not be any restriction for promotion from an odd semester to the next even semester.

(ii) For promotion to next academic year student should either completely clear all the subject of any of the semester of an academic year or earn the credit greater than or equal to the minimum Credits of either of the semester of that academic year.

(iii) In yearly result a student shall be declared Pass only it he/she secure "P" or above grades in all the subjects and minimum semester grade point average (SGPA) of 5.0 in each semester of academic year.
If a student satisfies clause 8(ii) but fails to satisfy clause 8(iii), he/she shall be promoted to the next session with less aggregate and result shall be marked as PCP-A.

9. CARRYOVER SYSTEM

(i) Following rules shall be followed for carryover papers:

(a) A candidate who satisfies the requirements of clause 7(ii) will be required to appear in those theory papers/practical during respective end semester exams in which he/she failed.

(b) A candidate satisfying clause 7(ii) shall be required to exercise his/her choice of theory papers in which he/she desires to appear in the examination to fulfill the requirements of clause 7(i)a.

(c) A candidate shall be required to exercise his/her choice of minimum theory papers in which he/she desires to appear in the examination for improvement to fulfill the requirements of clause 8(iii).

(d) Candidate appearing for carry over paper in any semester shall be examined with the examination paper of that subject running in that semester.

(ii) All carryover examinations shall be held only with end semester examination.

10. RE-ADMISSION IN THE INSTITUTION

A candidate may be allowed for re-admission provided he/she satisfies one of the following conditions:

(i) A candidate is declared fail.

(ii) A candidate did not appear in a semester examination/or he/she was not granted permission to appear in the examination.

(iii) A candidate has been detained by the department/University and subsequently has been permitted to take re-admission.

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11. COURSES

(i) There will be four types of courses.

a. **Foundation Courses:** The Foundation Courses are of two kinds: Compulsory Foundation and Elective foundation. "Compulsory Foundation": These courses are the courses based upon the content that leads to Knowledge enhancement. They are mandatory for all disciplines. "Foundation Electives": These are value based courses aimed at man making education.

b. **Core Courses:** This is the course which is to be compulsorily studied by a student as a core requirement to complete the requirements of a program in a said discipline of study.

c. **Elective Courses**: This is course, which can be chosen from the pool of papers. It may be supportive to the discipline/ providing extended scope/enabling an exposure to some other discipline / domain / nurturing student proficiency skills.

d. **Mandatory Courses**: These courses are mandatory for students joining MCA Program and students have to successfully complete these courses before the completion of degree.

(ii) The minimum number of students to be registered for an Elective to be offered shall be not less than twenty.

(iii)A student shall exercise his option in respect of the electives and register for the same at the beginning of the concerned semester. The student may be permitted to opt for change of elective subject within 15 days from the date of commencement of the semester as per the calendar of the University.

12. COMPUTATION OF SGPA AND CGPA

(i) The Veer Bahadur Singh Purvanchal University, Jaunpur (VBSPU) adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated every semester, except the first semester. The grading system is with the following letter grades and grade points scale as given below:

Level	**Outstanding**	**Excellent**	**Very Good**	**Good**	**Above Average**	**Average**	**Pass**	**Fail**
Letter Grade	O	A^+	A	B^+	B	C	P	F
Grade Points	10	9	8	7	6	5	4	00
Score (Marks) Range (%)	≥90	<90 ≥80	<80, ≥70	<70, ≥60	<60, ≥50	<50, ≥45	<45, ≥40	<40

(ii) A student obtaining Grade "F" shall be considered failed and will be required to reappear in the examination. Such students after passing the failed subject in subsequent examination/s will be awarded with "P" grade irrespective of marks he/she scores in the subsequent examination/s. Number of attempts taken to clear a subject/s shall be shown in the transcripts.

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(a) The University has right to scale/moderate the theory exam/practical exam/sessional marks of any subject whenever required for converting of marks in to letter grades on the basis of the result statistics of university as in usual practice.

(b) The modality for moderation of marks before the declaration of result shall be decided by the committee of Head, Dean and Controller of Examination.

(c) The modality for moderation of marks if needed after the declaration of result shall be decided by the committee of Head, Dean and Controller of Examination.

(d) If the candidate(s) appeared in the examination but theory marks are not available due to missing of copy by any reason, the average marks may be awarded as decided by the committee mentioned in 12(iii)(b). In case of missing/unavailable of sessional marks, decision will be taken by committee mentioned in 12(iii)(b).

(e) All the matters defined under 12(iii)(a) to 12(iii)(d) shall be executed subject to the approval of Academic Council of the VBSPU.

(iv) **Computation of SGPA, YGPA and CGPA**

The following procedure to compute the Semester Grade Point Average (SGPA), Yearly Grade Point Average (YGPA) and Cumulative Grade Point Average (CGPA):

(a) 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.

SGPA $(S_i)=\Sigma(C_i \times G_i)/\Sigma C_i$

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.

(b) TheYearly Grade Point Average (YGPA) is calculated at end of each year as:

$$YGPA = (SGPA_{(odd)} * \Sigma C_{i(odd)} + SGPA_{(even)} * \Sigma C_{i(even)}/(\Sigma C_{i(odd)} + \Sigma C_{i(even)})$$

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

CGPA$= \Sigma(C_i \times S_i)/\Sigma C_i$

where S_i is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester.

(d) The SGPA and CGPA shall be rounded off to 2 decimal places and reported in the transcripts.

(v). **Transcript (Format):** Based on the above recommendations on Letter grades, grade points. SGPA,YGPA and CGPA, the transcript for each semester and a consolidated transcript indicating the performance formulas in all the semesters may be issued.

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(vi). CGPA (calculated at the end of the last semester) shall be issued.

Illustration for Computation of SGPA and CGPA

Computation of SGPA Illustration No.1

Course	Credit	Grade letter	Grade point	Credit point (Credit x Grade)
Course1	4	B+	8	4x8 = 32
Course2	4	C	6	4x6 = 24
Course3	4	B	7	4x7 = 28
Course4	3	A+	10	3x10 = 30
Course5	3	D	4	3x4 = 12
Course6	2	C	6	2x6 = 12
Course7	2	A	9	2x9 = 18
Course8	2	C	6	2x6 = 12
Total	**24**			**168**

Thus, **SGPA= 168/24=7.00**

Illustration No.2

Course	Credit	Grade letter	Grade point	Credit point (Credit x Grade)
Course1	4	B+	8	4x8 = 32
Course2	4	C	6	4x6 = 24
Course3	4	B	7	4x7 = 28
Course4	3	A+	10	3x10 = 30
Course5	3	F	0	3x0 = 00
Course6	2	C	6	2x6 = 12
Course7	2	A	9	2x9 = 18
Course8	2	C	6	2x6 = 12
Total	**24**			**156**

Thus, **SGPA= 156/24=6.50**

Illustration No. 2(a)

Course	Credit	Grade letter	Grade point	Credit point (Credit x Grade)
Course5	3	E	4	3x4 = 12

Ci (First Attempt) 156+Ci(Subsequent attempt)12=168

Thus, **SGPA= 168/24=7.00**

Illustration No. 2(a)

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Course	Credit	Grade letter	Grade point	Credit point (Credit x Grade)
Course1	4	B+	8	4x8 = 32
Course2	4	C	6	4x6 = 24
Course3	4	B	7	4x7 = 28
Course4	3	A+	10	3x10 = 30
Course5	3	A	9	3x9 = 27
Course6	2	C	6	2x6 = 12
Course7	2	A	9	2x9 = 18
Course8	2	C	6	2x6 = 12
Total	**24**			**183**

Thus, **SGPA= 183/24=7.63**

CGPA=24x7.00+24x7.63/48=**7.3125**

CGPA after Final Semester

Sem.-1	Sem.-2	Sem.-3	Sem.-4	Sem.-5	Sem.-6	Sem.-7	Sem.-8	Sem.-9	Sem.-10
Credit:24	Credit:24	Credit:24	Credit:24	Credit:24	Credit:24	Credit:24	Credit:24	Credit:24	Credit:24
SGAP:7	SGAP:8.5	SGAP:9.2	SGAP:6.86	SGAP:8.18	SGAP:7.73	SGAP:8.18	SGAP:7.73	SGAP:8.18	SGAP:7.73

Thus, **CGPA** = *(24x7+24x8.5+24x9.2+24x6.86+24x8.18+24x7.73+24x8.18+24x7.73+24x8.18+24x7.73)/240=7.92*

13. CONVERSION OF CGPA INTO PERCENTAGE

Conversion formula for the conversion of CGPA into Percentage is:

CGPA Earned x 10=Percentage of marks scored.

Illustration: CGPA Earned 7.92x10=79.2%

14. AWARD OF DIVISION, RANK AND MEDALS

(i) Division shall be awarded only after the final semester examination based on integrated performance of the candidate for all the six semesters as per following details.

(a) After successful completion of three years, a student shall be eligible to get under graduate degree in Computer Applications. A student will be eligible to get first division with honours only, if he/ she voluntary completes additional University recommended courses only (equivalent to 20 credits offered by NPTEL of 4 weeks, 8 weeks and 12 weeks shall be of 2, 3

and 4 credits respectively) through MOOCs. For registration to MOOCs courses, the students shall follow NPTEL site http://nptel.ac.in/ as per the NPTEL policy and norms. These students can register for their courses through NPTEL directly as per the course offering in odd/even semesters at NPTEL. The registration fees will be borned by the student. These NPTEL courses (recommended by the university) may be cleared during the MCA degree program (not necessary one course in each semester). After successful completion of these MOOCs courses the students, shall, provide their successful completion NPTEL status/ certificates to the university (COE) through their college of study only. The student shall be awarded First division with Honours Degree only if he/she secures 7.50 or above CGPA and passed each subject of that degree program in single attempt without any grace marks, without any gap along with successful completion of MOOCS based course of 20 credits.

(b) A candidate who qualifies for the award of the degree securing 'P'or above grades in all subjects pertaining to all semesters in his/her first attempt within four consecutive semester (two

academic years) and in addition secures a CGPA of 7.5 and above for the semesters I to IV shall be declared to have passed the examination in FIRST DIVISION WITH HONOURS.

(c) A candidate who qualifies for the award of the degree by securing 'P' or above grades in all subjects of all the semester within a maximum period of four semesters after his/her commencement of study in the 1st semester and secures CGPA not less than 6.5 shall be declared to have passed the examination in FIRST DIVISION.

(d) All other candidates who qualify for the award of degree by securing 'P'or above grades in all subjects of all semesters within a maximum period of four semesters after his/her commencement of study in the 1st semester an addition secures CGPA not less than 5.0 shall be declared to have passed the examination in SECOND DIVISION.

(ii) For award of ranks a minimum of 10 students should have appeared in the 4th semester examination. The total number of ranks awarded shall be 10% of total number of students appeared in 4th semester or 10 students, whichever is less.

Illustration:

1. If 1028 students appeared for the 4h semester in MCA, the number of ranks to be awarded for MCA will be 10.
2. If 90 students appeared for the 4h semester in MCA, the number of ranks to be awarded for MCA will be 09.

For award of rank in MCA, the CGPA secured by the student from 1st to 4th semester shall be considered.

A student shall be eligible for a rank at the time of award of degree in MCA, provided the

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N/

student

(a) Has passed 1st to 4th semester in all the subjects in first attempt only.
(b) Has not repeated/rejected any of the lower semesters.

If two students get the same CGPA, the tie should resolved by considering the number of times a student has obtained higher SGPA, but, if it is not resolved even at this stage, the number of times a student has obtained higher grades like A+, A, B+, B etc shall be taken into account in rank ordering of the students in a program.

(iii) The Gold, Silver and any other Medals as decided by the university shall be awarded to students falls in the top ranks of various courses as per university rules.

15. SCRUTINY AND REVALUATION

16. Scrutiny and Revaluation of theory/practical papers is permitted only with certain conditions as laid down by university.

17. UNFAIR MEANS

Cases of unfair means shall be dealt as per the rules and regulations of the University.

18. AWARD OF SESSIONAL MARKS

Sessional marks for theory subjects, practicals and project shall be awarded as prescribed and at present the break-up of sessional marks shall be as follows:

(i) Theory Subjects:
   a) Class test which will comprise 20% of total theory marks with two mid-terms tests of equal weightage.
   b) Teacher Assessment Tutorial/Assignment/Quizzes/Attendance comprises 10% of total theory marks.

(ii) Practicals:
   a) Two mid-term viva-voce/tests of equal weightage 30% of total Practical marks.
   b) Teacher Assessment: Lab, Record/Attendance 20% of total Practical marks.

(iii)Make-up test may be held only for those students who could not appear in any one of mid-term class tests due to genuine reasons for which the prior permission from the Head of Institution/Department was taken. Make up test shall ordinarily be held about two weeks before the semester examination. The syllabus for the make-up test shall be the whole syllabus covered by the subject teacher up to that time.

19. AWARD OF SEMINAR INDUSTRIAL TRAINING, EDUCATIONAL TOUR MARKS, if any, AT INSTITUTION/DEPARTMENT LEVEL

(i) The marks of Seminar, Industrial Training, Educational tour marks shall be awarded on the following basis:

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a) Write-up/Report 50%
b) Presentation 50%

(ii) The marks in Seminar, Industrial Training and Educational Tour shall be awarded by a committee consisting of following members:
   a) Head of the Department or his/her nominee.
   b) Concerned Officer-In change
   c) Senior Faculty Member of the department nominated by the Head of Department.

20. CANCELLATION OF ADMISSION

The admission of a student at any stage of study shall be cancelled if:

(i) He / she is not found qualified as per AICTE/State Government norms and guidelines or the eligibility criteria prescribed by the University.

Or

(ii) He / She is found unable to complete the course within the stipulated time as prescribed in clause 4.2

Or

(iii) He/she is found involved in creating indiscipline in the Institution/College or in the University.

21. The **Academic Council** shall have the power to relax any provision provided in the ordinance in any specific matter/situation subject to the approval of Executive Council of the University.

22. INTERPRETATION OF ORDINANCES

Notwithstanding anything contained in the Ordinances, the Vice–Chancellor may, on behalf of the Academic Council/ Executive Council approve the amendment, modification of the Ordinance (s), which in his/her opinion is necessary or expedient for smooth running of a programme and reports it to the next meeting of the Academic Council/Executive Council. In case of any dispute, difference of opinion in interpretation of these Ordinances or any other matter not covered in these Ordinances, the decision of the Vice- Chancellor/ Academic Council/Executive Council shall be final and binding.