

PROGRAMME PROJECT REPORT

कार्यक्रम परियोजना विवरण

Bachelor of Computer Application

School of Science and Technology

VARDHMAN MAHAVEER OPEN UNIVERSITY, KOTA

Bachelor of Computer Application

THE UNIVERSITY

Vardhman Mahaveer Open University, Kota (earlier Kota Open University, Kota) was established by an Act of the Rajasthan State Legislative Assembly in 1987 with a view to achieve the following objectives:

- Democratizing higher education by taking education to the doorsteps of students.
- Providing access to quality education to all those who seek it, irrespective of age or formal qualification.
- Offering need based academic programmes by giving professional and vocational orientation to the courses.
- Promoting and developing distance education in the State of Rajasthan.

Special Features of the Open and Distance Education System:

- Provision of equal opportunities of admission to people from all walks of life.
- Cost effective educational operations.
- Self instructional printed course material.
- Network of students support services throughout the State of Rajasthan.
- Face to face and distance counselling wherever and whenever needed.
- Continuous evaluation through internal home assignments.
- Provision of term-end examinations.
- Online Admission Process

Academic Programmes

The University offers Certificate, Diploma and Degree programmes. They are launched with a view to fulfil the student needs for :

- Improvement of skills.
- Continuing education and professional development at work place.
- Acquisition of professional qualifications.
- Self-enrichment.
- Diversification of knowledge etc.

Credit System

The University follows the Credit System for its programmes. Each credit amounts to 30 hours of study containing all learning activities. BCA-01 to BCA-17 courses are 4 credits courses, while BCA-101, BCA-201 and BCA-301 are of 8 Credits. Completion of an academic programme (Degree or Diploma) requires successful clearing of both the home assignments and the term end examinations of each course in a programme.

Programme Project Report – PPR

Name of the School: School of Science and Technology

Name of the Programme: Bachelor of Computer Application

S. N.	Parameter	Details
1	Programme's mission & objectives	• To impart computer education and enhance knowledge about computer subjects. • To develop better skills leading to self-development and employability in computer application. • To upgrade the professional skills and knowledge to enable them to work as teachers, programmers, analysts, etc. • To make the students eligible for admission in higher courses like PGDCA, M.Sc. (CS), MCA etc
2	Relevance of the program with VMOU's Mission and Goals	As per the VMOU's Mission i.e. To promote educational opportunities in Computer with academic excellence. It strives for inclusive growth of relevance society through innovative pedagogy.
3	Admission Eligibility	Senior Secondary (10+2) passed or equivalent in any discipline from any recognized Board or equivalent.
4	Instructional Design	Programme Structure: There will be total 9 courses out of which there will be three compulsory courses QEG, QES, REW to be offered in BCA Part - I. A student is required to pass these courses. The marks obtained in these courses will not be added in the division.

		BCA Part – I			
		S. No.	Name of Course	Course Code	Credit
		1.	General English	QEG	Non Credit
		2.	Environmental Studies	QES	Non Credit
		3.	Technical Report Writing in English	REW	Non Credit
		4.	Introduction to Computer Science	BCA-01	4
		5.	Discrete Mathematics	BCA-02	4
		6.	Basic Electronics	BCA-03	4
		7.	Computer Applications for Office Management	BCA-04	4
		8.	Web Authoring Tools	BCA-05	4
		9.	Programming in C	BCA-06	4
		10.	Practical-I	BCA-107	8
		BCA Part - II			
		S. No.	Name of Course	Course Code	Credit
		1.	Operating System - I	BCA-07	4
		2.	Software Engineering	BCA-08	4
		3.	Data Base Management System	BCA-09	4
		4.	Object Orientated Programming in C ++	BCA-10	4
		5.	Programming in Visual Basic	BCA-11	4
		6.	Data Structures and Algorithms	BCA-12	4
		7.	Practical-II	BCA-207	8
		BCA Part – III			
		S. No.	Name of Course	Course Code	Credit
		1.	Operating System – II	BCA-13	4

		2.	Computer Application in Corporate World	BCA-14	4
		3.	Fundamental of Computer Networks	BCA-15	4
		4.	Programming in JAVA	BCA-16	4
		5.	Web Technology	BCA-17	4
		6.	Practical -III	BCA-307	8
		Course BCA-107, BCA-207 and BCA-307 will have practical examination and rest of all will have theory examination. 20 days Practical Camp will be organized each for BCA – 107, BCA-207, BCA -307. BCA-107 is composition of BCA-04, BCA-05 and BCA-06. BCA-207 is composition of BCA-09, BCA-10 and BCA-11. अध्ययन पद्धति (Study Pattern) इस विश्वविद्यालय में शिक्षण पद्धति पारंपरिक विश्वविद्यालयों द्वारा अपनाई जा रही कक्षा अध्ययन पद्धति से भिन्न है। खुला विश्वविद्यालय की शिक्षा पद्धति स्व-अधिगम पर आधारित है। यह एक अध्येता-केन्द्रित पद्धति (Learner Centered) है। इस कारण इस पद्धति में विद्यार्थियों पर सक्रिय अध्ययन का उत्तरदायित्व अधिक होता है। स्नातकोत्तर उपाधि, स्नातक उपाधि एवं कुछ अन्य चयनित कार्यक्रमों में सतत् मूल्यांकन की दृष्टि से सत्रीय/आन्तरिक गृह कार्य की व्यवस्था। इससे विद्यार्थियों को निरन्तर अध्ययनरत और अभ्यासरत रहने की प्रेरणा मिलती है। स्व-अध्ययन सामग्री (Self Learning Material): विश्वविद्यालय में पंजीकृत विद्यार्थियों को त्वरित रूप से मुद्रित स्व-अध्ययन सामग्री प्रदान की जाती है। सम्पूर्ण पाठ्यक्रम को विभिन्न इकाइयों में विभाजित किया गया है। प्रत्येक इकाई के प्रारम्भ में इकाई की रूपरेखा दी गयी है जिसमें इकाई के उद्देश्य एवं प्रस्तावना के अतिरिक्त सम्पूर्ण जानकारी छोटे-छोटे एवं शीघ्र समझ में आ सकने वाले अनुच्छेदों में है। इसमें जगह-जगह पर स्वगृह कार्य प्रश्न एवं निर्धारित स्थान पर अभ्यास प्रश्न भी दिये गये हैं, जिससे विद्यार्थी अपनी प्रगति को स्वयं जाँच सकता है। प्रत्येक इकाई के अंत में सारांश, शब्दावली एवं कुछ उपयोगी पुस्तकों की सूची भी दी जाती है। वर्तमान में अध्ययन सामग्री का डिजिटल इजेशन कर ऑनलाइन उपलब्ध करवाया जा रहा है।			
5	Procedure for admissions, curriculum transaction and	The university invites applications online in July session and January session every year. Admissions are usually completed for July session and January session as per guidelines received from UGC. For this the university issues press releases in major newspapers of Rajasthan state. Admission in Bachelor of Computer Application program will be allowed twice in a year in July and January Session. Promotee Admission in Bachelor of Computer Application will be allowed only twice in a			

evaluation	year in July and January Session.																																								
	For online admission, the student can apply through e-Mitra or on the university's website www.v mou.ac.in itself. For admission of all subjects or complete information regarding programs is available in prospectus on university website www.v mou.ac.in .																																								
	Duration of the Programme : Minimum 3 years, maximum 8 years																																								
	Fee Structure:																																								
	<table><tr><th>Prog Code</th><th>Programme</th><th>Total Fee</th><th>Cour se Fee</th><th>Reg . Fee</th><th>Developm ent Fee</th><th>Practica l Camp Fee</th><th>Practica l Exam Fee</th><th>Theory Exam Fee</th><th>Post al Cha rges</th></tr><tr><td>BCA-I</td><td>Bachelor of Computer Application (Part-I)</td><td>10400</td><td>7100</td><td>100</td><td>100</td><td>1000</td><td>200</td><td>1800</td><td>100</td></tr><tr><td>BCA-II</td><td>Bachelor of Computer Application (Part-II)</td><td>10100</td><td>7400</td><td>100</td><td>100</td><td>1000</td><td>200</td><td>1200</td><td>100</td></tr><tr><td>BCA- III</td><td>Bachelor of Computer Application (Part-III)</td><td>10100</td><td>7600</td><td>100</td><td>100</td><td>1000</td><td>200</td><td>1000</td><td>100</td></tr></table>	Prog Code	Programme	Total Fee	Cour se Fee	Reg . Fee	Developm ent Fee	Practica l Camp Fee	Practica l Exam Fee	Theory Exam Fee	Post al Cha rges	BCA-I	Bachelor of Computer Application (Part-I)	10400	7100	100	100	1000	200	1800	100	BCA-II	Bachelor of Computer Application (Part-II)	10100	7400	100	100	1000	200	1200	100	BCA- III	Bachelor of Computer Application (Part-III)	10100	7600	100	100	1000	200	1000	100
	Prog Code	Programme	Total Fee	Cour se Fee	Reg . Fee	Developm ent Fee	Practica l Camp Fee	Practica l Exam Fee	Theory Exam Fee	Post al Cha rges																															
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	BCA-II	Bachelor of Computer Application (Part-II)	10100	7400	100	100	1000	200	1200	100																															
	BCA- III	Bachelor of Computer Application (Part-III)	10100	7600	100	100	1000	200	1000	100																															
	The examination fee for the first attempt is included in the admission fee.																																								
Evaluation and Examination Pattern:																																									
Although the medium of instruction is English but the students are facilitated to use either English or Hindi as a medium of examination.																																									
Permission letter for the Term End Examination is to be downloaded from the University Website.																																									
Internal /Home Assignment: In each course (paper) Internal/home Assignment will be of 30 marks. There will be no Internal Assignment in Practical Courses/papers (BCA -106, BCA -206 & BCA - 306). The Internal Assignments shall be submitted to the Concerned Regional Centre on or before the date																																									

prescribed by the university. (See academic calendar for prescribed dates)
If student do not get minimum pass marks in an assignment, student has to submit it again. However, once you get the pass marks in an assignment, student cannot resubmit it for improvement of grade. Assignments are not subject to re-valuation

Term-end Examination: On the completion of the prescribed minimum duration for each BCA 1st year as well as for BCA 2nd year as well as for BCA 3rd year; a candidate will be examined by the means of written examination of 3 hours duration in each course (paper). The maximum marks for each course (paper) shall be 70. The Term-end examination (Theory) questions will be in English Language only.

Term End Examination (Practical):

The maximum marks for term end examination of each practical course shall be 100. Minimum 75% attendance in Practical Counseling Camp is mandatory to appear in practical Examination. Distribution of marks will be as follows:

1. Lab Work and Written Examination – 40 marks
2. Record Work – 30 marks
3. Viva-voce – 30 marks

The marks obtained in internal/home assignment and term end examination shall be shown separately in the marksheet. The successful candidate shall be classified as per the following table-

First Division	60% and above
Second Division	48% and above but below 60%
Pass	36% and above but below 48%

The student can apply for revaluation of examination as per University rules.

Letter Grade Chart for Calculating CGPA/YGPA

लेटर ग्रेड Letter Grade		ग्रेड प्वाइंट Grade Point	समग्र समतुल्य अंक M (100 अंकों में से) Equivalent overall Marks M (out of hundred)
O	Outstanding	10	$90 \leq M \leq 100$
A+	Excellent	9	$80 \leq M < 90$
A	Very Good	8	$70 \leq M < 80$

		<table><tr><td>B+</td><td>Good</td><td>7</td><td>$60 \leq M < 70$</td></tr><tr><td>B</td><td>Above Average</td><td>6</td><td>$55 \leq M < 60$</td></tr><tr><td>C+</td><td>Average</td><td>5.5</td><td>$50 \leq M < 55$</td></tr><tr><td>C</td><td>Below Average</td><td>5</td><td>$45 \leq M < 50$</td></tr><tr><td>D+</td><td>Marginal</td><td>4.5</td><td>$40 \leq M < 45$</td></tr><tr><td>D</td><td>Pass</td><td>4</td><td>$36 \leq M < 40$</td></tr><tr><td>NC</td><td>Not Completed</td><td>0</td><td>$25 \leq M < 36$</td></tr><tr><td>E</td><td>Poor</td><td>0</td><td>$10 \leq M < 25$</td></tr><tr><td>H</td><td>Very Poor</td><td>0</td><td>$0 \leq M < 10$</td></tr></table> यदि विद्यार्थी NC, E, H ग्रेड प्राप्त करता है तो उसे NC (Not Completed) माना जायेगा तथा उसे पुनः परीक्षा देनी होगी। निम्नलिखित प्रकार से विद्यार्थी का वार्षिक ग्रेड प्वाइंट औसत (Yearly Grade Point Average (YGPA)) तथा संचयी ग्रेड प्वाइंट औसत (Cumulative Grade Point Average (CGPA)) की गणना की जायेगी। YGPA हेतु विद्यार्थी द्वारा प्राप्त ग्रेड प्वाइंट को उस विषय के क्रेडिट अंक से गुणा करके योग को कुल ग्रेड प्वाइंट से भाग देने पर प्राप्त होगा अर्थात् $YGPA = \sum(C_i \times G_i) / \sum C_i$ जहां पर C_i क्रेडिट अंक हैं तथा G_i उस विषय में विद्यार्थी द्वारा प्राप्त ग्रेड प्वाइंट है। 10 Point स्केल पर CGPA की गणना निम्न सूत्र द्वारा की जायेगी $CGPA = \frac{\text{Cumulative points secured in all passed courses}}{\text{Cumulative earned credits}} = \sum(C_i \times G_i) / \sum C_i$ YGPA तथा CGPA की गणना दशमलव के बाद दो अंको तक की जायेगी।	B+	Good	7	$60 \leq M < 70$	B	Above Average	6	$55 \leq M < 60$	C+	Average	5.5	$50 \leq M < 55$	C	Below Average	5	$45 \leq M < 50$	D+	Marginal	4.5	$40 \leq M < 45$	D	Pass	4	$36 \leq M < 40$	NC	Not Completed	0	$25 \leq M < 36$	E	Poor	0	$10 \leq M < 25$	H	Very Poor	0	$0 \leq M < 10$
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H	Very Poor	0	$0 \leq M < 10$																																			
6	Requirement of the laboratory Work	Practical contact camp of 20 counselling days (3 hours per day) will be organized for BCA-107, BCA-207 and BCA-307 each. Total Practical work will be 240 hours. The bifurcation of 240 hours includes 30 hours of Lab work, 120 hours of Record work and other related activities, 60 hours lab work using ICT. Minimum 75% attendance in practical contact classes is compulsory in practical contact camp to appear in Practical Examination. Attendance of student in a practical camp will be valid only for that particular practical camp. If student does not attend the practical camp or does not appear in practical exam or does not pass the practical exam, then student has to again appear																																				

		in practical camp with at least 75% attendance to appear in that practical exam. If student becomes defaulter in exams, he should fill the defaulter form for that exams.
7	Cost estimate of the programme and the provisions	Cost of preparation of self-learning material (SLM), printing and supply, delivery system is followed as per guidelines of the university. University student Counseling and conducting of examination and evaluation is followed as per guidelines of the university.
8	Quality assurance mechanism and expected programme outcomes	Centre for Internal Quality Assurance (CIQA) is monitoring, improving and enhancing effectiveness of the program. The expected outcome of the programme is to develop knowledge and skills so that the learner can get career opportunities in teaching and research.

Learners may seek the help of the following functionaries from 10.00 AM to 5.00 PM on working days to sort out the problems as indicated below:

- (i) About non-receipt of Study Materials, Assignments etc.
Director (MPD), VMOU, Rawatbhata Road, Kota - 324 021
0744-2797346, 0744-2797349, 0744-2797350
- (ii) About Admission, Fee Receipts, Registration, Change of Regional/Study Centre and postal addresses, etc.
Concerned Regional Centre of VMOU, Kota
- (iii) About Examination Centres, Results, Mark Sheets, Revaluation etc.
Controller of Examinations, VMOU, Rawatbhata Road, Kota - 324 021
0744-2797314, 0744-2797328, 0744-2797324
- (iv) Important Telephone Numbers –
Toll Free No. 1800-180-6166

