

# PROGRAMME PROJECT REPORT (PPR)

## B.Sc. (BIOLOGY)

### (A) Programme's Mission and Objectives-

#### Mission-

- To promote the scientific temperament of the learners in higher education by providing easy access o higher education to all those students of rural and economically poor students to improve their qualification, skills and competence.
- To offer enriching learning experiences to aspiring learners.
- To enable the students to realize their full potential.
- To ensure that students serves as an agent of society for continuous improvement and change.
- To extend the frontiers of knowledge in Biological sciences through research.

#### Objectives-

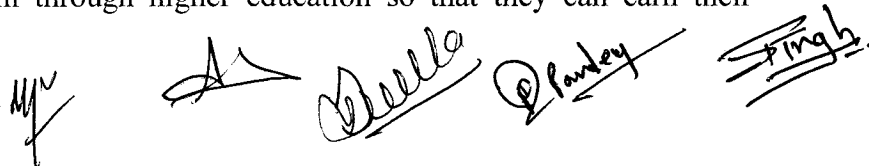
- To develop study skills among learners so as to cope with the courses in Botany, Zoology, Chemistry, Literature, Computing and Entrepreneurship Development.
- To develop personality development skills.
- To provide the necessary practical exposure to self-study methods so as to equipped the learner with knowledge-acquiring skills.
- To create and develop the ideas about fisheries, apiculture, medicinal plants cultivation, biodiversity, environment, climate change, global warming among students.

### (B) Relevance of the programme with HEI's Mission and Goals-

The programme confirms with the higher education institution mission and goals by providing education to the learners of the rural and remote areas of the state. The programme will provide the quality education and develop research ability among learners through distance education mode.

### (C) Nature of Prospective target group of learners-

The target group of learners for the proposed programme shall be the people from tribal areas specially SC, ST, OBC categories of learners. Most of the learners of the programme belong to the rural background and economically poor families, so it is important to empower them through higher education so that they can earn their livelihood.



**(D) Appropriateness of programme to be conducted in Open and Distance learning mode to acquire specific skills and competence-**

- Through the programme of B.Sc. (Bio) the learners will be able to gain knowledge about different skills in relation to Botany, Zoology and Chemistry.
- They will be taught about the importance of Biodiversity, Plants, Animals and Environment in day to day life.
- The learners will acquire skills about the identification of different Plants and Animals found in the surroundings.
- The learners will be able to start their own venture in the field of medicinal plant cultivation, apiculture, sericulture, fisheries etc.
- The learners will be able to compete with others through the acquisition of different skills and qualification provided under the programme.

**(E) Instructional Design-**

**Curriculum Design, Detailed Syllabi & Duration of Program-**

B.Sc. (Bio) program offered in Institute of Open & Distance Education for the period of 36 months (3 years).

**Credit Points-**

All courses offered by us carry a certain value in terms of credit-points. A credit point is a way of expressing the learning hours required to study a certain unit, in a book or a course. Generally, one credit point is considered equivalent to about 30 learning hours. These learning hours could mean the time you spend in face to face counseling, self study, practical, assignment, project, participating in discussions on the topic, listening to audios, viewing especially prepared videos, etc. Programme structure for B.Sc. (Bio) are clearly mention below-

**BACHELOR OF SCIENCE (B.SC.) –BIOLOGY GROUP**

Course Code	Name of the Course	Credit	Total Marks	Theory		Practical Marks		Assignments	
				Max	Min	Max	Min	Max	Min
<b>First Semester</b>									
1BSC1	Hindi Language Structure - I	2	50	35	12	-	-	15	5
1BSC2	Entrepreneurship Development	2	50	35	12	-	-	15	5
1BSC3	Botany-I	4	150	70	23	50	17	30	10

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1BSC4	Chemistry-I	4	150	70	23	50	17	30	10
1BSC5	Zoology -I	4	150	70	23	50	17	30	10
	<b>Total</b>	<b>16</b>	<b>550</b>	<b>280</b>	<b>101</b>	<b>150</b>	<b>54</b>	<b>120</b>	<b>43</b>
<b>Second Semester</b>									
2BSC1	English Language and Indian Culture	2	50	35	12	-	-	15	5
2BSC2	Development of Entrepreneur	2	50	35	12	-	-	15	5
2BSC3	Botany-II	4	150	70	23	50	17	30	10
2BSC4	Chemistry-II	4	150	70	23	50	17	30	10
2BSC5	Zoology-II	4	150	70	23	50	17	30	10
	<b>Total</b>	<b>16</b>	<b>550</b>	<b>280</b>	<b>101</b>	<b>150</b>	<b>54</b>	<b>120</b>	<b>43</b>
<b>Third Semester</b>									
3BSC1	Hindi Language aur Samvedana	2	50	35	12	-	-	15	5
3BSC2	Environmental Studies	2	50	35	12	-	-	15	5
3BSC3	Botany - III	4	150	70	23	50	17	30	10
3BSC4	Chemistry-III	4	150	70	23	50	17	30	10
3BSC5	Zoology-III	4	150	70	23	50	17	30	10
	<b>Total</b>	<b>16</b>	<b>550</b>	<b>280</b>	<b>101</b>	<b>150</b>	<b>54</b>	<b>120</b>	<b>43</b>
<b>Fourth Semester</b>									
4BSC1	English Language and Scientific Temper	2	50	35	12	-	-	15	5
4BSC2	Environmental Study	2	50	35	12	-	-	15	5
4BSC3	Botany-IV	4	150	70	23	50	17	30	10
4BSC4	Chemistry-IV	4	150	70	23	50	17	30	10
4BSC5	Zoology-IV	4	150	70	23	50	17	30	10
	<b>Total</b>	<b>16</b>	<b>550</b>	<b>280</b>	<b>101</b>	<b>150</b>	<b>54</b>	<b>120</b>	<b>43</b>
<b>Fifth Semester</b>									
5BSC1	Hindi Language (Bhasha Kaushal aur Sanchar Sadhan)	2	50	35	12	-	-	15	5
5BSC2	Computer & Information Technology Basics-I	2	100	35	12	50	17	15	5
5BSC3	Botany-V	4	150	70	23	50	17	30	10
5BSC4	Chemistry-V	4	150	70	23	50	17	30	10
5BSC5	Zoology-V	4	150	70	23	50	17	30	10
	<b>Total</b>	<b>16</b>	<b>600</b>	<b>280</b>	<b>101</b>	<b>200</b>	<b>72</b>	<b>120</b>	<b>43</b>
<b>Six Semester</b>									
6BSC1	English Language and Aspects of Development	2	50	35	12	-	-	15	5
6BSC2	Computer & Information Technology Basics-II	2	100	35	12	50	17	15	5
6BSC3	Botany-VI	4	150	70	23	50	17	30	10
6BSC4	Chemistry-VI	4	150	70	23	50	17	30	10

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6BSC5	Zoology-VI	4	150	70	23	50	17	30	10
<b>Total</b>		<b>16</b>	<b>600</b>	<b>280</b>	<b>101</b>	<b>200</b>	<b>72</b>	<b>120</b>	<b>43</b>

### Evaluation Scheme-

1. 33% in each theory, practical, project, dissertation & internal assessment but the total Aggregate for passing is 36%.

### Duration-

This programme has duration of three years although student may complete the programme gradually within a maximum period of seven years.

### Medium-

English/Hindi shall be the medium of instruction and the examination may be written in Hindi or English.

### Requirement of faculty and support staff-

For B.Sc. (Bio) programme we have two faculty members (full time-dedicated for ODL courses) has the level of Associate and Assistant Professor. Supporting staffs will be deputed at the learner support centre as per need of the course curriculum.

### Instructional delivery Mechanism & Usage of media for distance learning-

The methodology of instruction in the distance learning mode in the University is different from that of the conventional regular programs. The system adopted for this is more learner-oriented and the learner is an active participant in the pedagogical (teaching & learning) process. Most of the instructions are imparted through distance education methodology and face-to-face mode as per requirement.

The programme delivery methodology used in the distance learning mode follows a multimedia approach for instruction, which comprises-

- **Self-Instructional Written Material-** The printed study material (written in self instructional style) for both theory and practical components of the programs is supplied to the learners in batches for every course.
- **Audio-Visual Material Aids-** The learning package contains audio and video CDs which have been produced/adopted by the University for better clarification and enhancement for understanding of the course material given to the learners. A video programme is normally of 25-30 minutes duration. The video cassettes are screened at the learner support centre during specific sessions which are duly notified for the benefit of the learners.

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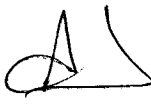
- **Counseling Session-** Normally counseling sessions are held as per schedule drawn by the IODE DR. CV RAMAN UNIVERSITY. These are mostly held outside the regular working hours of the learner support centre.
- **Teleconferences-** Live teleconferencing sessions are conducted via internet/ satellite through interactive Video Conferencing facility (available at some places) from the University studios, the schedule of which is made available at the learner support centre.
- **Industrial Training/ Practical's/ Project Work-** Some programmes have industrial training/practical/ project component also. Practical's are held at designated institutions for which schedule is provided by the learner support centre. Attendance at practical is compulsory.
- The printed study materials will be dispatched periodically to the enrolled students for each paper of study. These materials will be as guide for the students for effective learning. The assignment for internal assessment shall also be dispatched along with the study material. Online modules are also available for some courses. These are in progress and as and when available, these will be available on the website of the students for registered candidates.
- The counseling sessions will be of 30 days duration for a course in a year. The actual schedule and place of contact program shall be announced and communicated to students in time.

#### **Nature of Contact Classes-**

During the contact sessions, the counselors are supposed to guide/discuss with the learners, based on the course material. The learners can solve their difficulties by discussing with their colleagues as well as with the counselor during contact sessions. A part from this contact sessions, learners will have to attend practical as well as various training schedule conducted by the respective learner support centre.

#### **Learner Support Services-**

Dr. C.V. Raman University Institute of Open And Distance Education has a fully fledged Learner Support Division (LSD) to provide guidance and help to its students. Necessary information is passed on to the registered student through modern means of communication as SMS, website and e-mail. For the convenience of learner, computer, photocopy machine, internet, WIFI facilities have also been provided. The learner support division has a web centre and SMS No. 56161 where learner can message their problems and seek answer. Bulk SMS are sent to learners regarding their registration detail, dispatch of study, material time table for contact class, submission of examination forms, examination schedule etc. from time to time. Important information and necessary material are also sent through e-mail and through regular post. University website [www.cvr.u.ac.in](http://www.cvr.u.ac.in) also provides information about the various programmes being offered by the institute of open and distance education, the syllabus, assignment, programme guide.

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## Counseling & Study Structure-

The counseling & study structure for B.Sc. (Bio) programme is as below-

### COUNSELING AND STUDY STRUCTURE

Course Code	Name of the Course	Credit	Total Hours of Study	Counseling and Study Structure (hours)			
				Face to Face Counseling	Self study	Practical	Assignments
<b>SEMESTER-I</b>							
1BSC1	Hindi Language Structure - I	2	60	8	34	-	18
1BSC2	Entrepreneurship Development	2	60	8	34	-	18
1BSC3	Botany-I	4	120	16	44	24	36
1BSC4	Chemistry-I	4	120	16	44	24	36
1BSC5	Zoology-I	4	120	16	44	24	36
<b>SEMESTER-II</b>							
2BSC1	English Language and Indian Culture	2	60	8	34	-	18
2BSC2	Development of Entrepreneur	2	60	8	34	-	18
2BSC3	Botany-II	4	120	16	44	24	36
2BSC4	Chemistry-II	4	120	16	44	24	36
2BSC5	Zoology-II	4	120	16	44	24	36
<b>SEMESTER-III</b>							
3BSC1	Hindi Language aur Samvedana	2	60	8	34	-	18
3BSC2	Environmental Studies	2	60	8	34	-	18
3BSC3	Botany-III	4	120	16	44	24	36
3BSC4	Chemistry-III	4	120	16	44	24	36
3BSC5	Zoology-III	4	120	16	44	24	36
<b>SEMESTER-IV</b>							
4BSC1	English Language and Scientific Temper	2	60	8	34	-	18
4BSC2	Environmental Study	2	60	8	34	-	18
4BSC3	Botany-IV	4	120	16	44	24	36
4BSC4	Chemistry-IV	4	120	16	44	24	36
4BSC5	Zoology-IV	4	120	16	44	24	36

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<b>SEMESTER-V</b>							
5BSC1	Hindi Language (Bhasha Kaushal aur Sanchar Sadhan)	2	60	8	34	-	18
5BSC2	Computer & Information Technology Basics- I	2	60	8	22	12	18
5BSC3	Botany-V	4	120	16	44	24	36
5BSC4	Chemistry-V	4	120	16	44	24	36
5BSC5	Zoology-V	4	120	16	44	24	36
<b>SEMESTER-VI</b>							
6BSC1	English Language and Aspects of Development	2	60	8	34	-	18
6BSC2	Computer & Information Technology Basics- II	2	60	8	22	12	18
6BSC3	Botany-VI	4	120	16	44	24	36
6BSC4	Chemistry-VI	4	120	16	44	24	36
6BSC5	Zoology-VI	4	120	16	44	24	36

**(F) Procedure for admissions Curriculum transaction and evaluation-**

**Admission Policy for B.Sc. (Bio) with minimum eligibility & fee structure-**

Admission to B.Sc. (Bio) programme shall be through merit and/or, entrance test as per rules of the university. A candidate who after passing higher secondary examination (10+2) with bio science discipline under Chhattisgarh board of secondary education or any other equivalent examination board recognized may be admitted. All the procedure of admission for the programme will be done through online mode. Application will be invited by the university with it stipulated time period where students have to apply for the same with all their testimonials and required fees.

**Fees-**

Sl.	Programme	Duration	Fee charged for complete programme
1.	B.Sc. (Bio)	3 Years	35400

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## • Financial Assistance-

E-scholarship is provided to SC/ST students as per norms of the Govt. of Chhattisgarh authorized schemes.

## Evaluation system-

The system of evaluation in Open & Distance Learning System is also different from that of conventional system. CVRU has a multi- tier system of evaluation given as follows-

1. Self –assessment exercises within each unit of study.
2. Continuous evaluation mainly through assignment which is tutor marked, practical assignments & seminar/workshops/ extended contact programmes.
3. Term end examinations.

The evaluation of learners depends upon various instructional activities undertaken by them. A learner has to write assignment responses compulsorily before taking term-end examination from time to time to complete an academic programme. A learner has to submit TMA responses to the learner support centre established by IODE Dr.C.V. Raman University. A learner should keep duplicate copies of assignment responses of TMA that may be required to be produced at Student Evaluation Division on demand. Term-end examination will be conducted at various examination centre approved by institute of open and distance education Dr. C. V. Raman university spread all over the Chhattisgarh. The weightage for Term End Examination will be 70% and weightage for Internal Assessment will be 30% for this programme.

## Evaluation Procedure-

(A) Internal Assessment (Continuous Assessment i.e. Home Assignment) - 30% weightage.

(B) Term End Examination - 70 % weightage

Term End Examination	70
Internal Assessment	30
Total Marks	100

The University conducts Term-End Examination in semester system & held in the month of Nov/Dec and May/June every year. Students will be permitted to appear in term-end examination subject to the conditions that-

- 1) Registration for the courses, in which they appeared is valid.
- 2) Minimum Time to pursue these courses is elapsed.
- 3) Submission of required number of assignment in respective courses by the due date.

  
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### (G) Requirement of the laboratory support and library resource-

Taught the learners in laboratory develop their competency, confidence and practical skill. Our University have well equipped laboratory. The learners are engaged in the laboratory as per the time schedule. Resources in the form of reference books and journal will be made available to the learner in the reference library (IODE) and university central library which they can access for gaining knowledge.

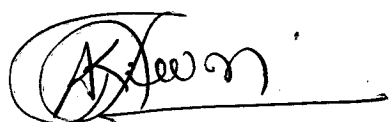
### (H) Cost estimates of the programme and the provision-

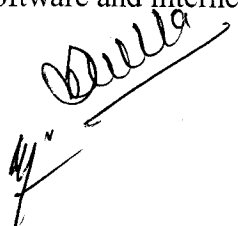
This programme was already designed and developed in the year 2009-10. In this process of development considering today's scenario, the current cost estimate which includes developmental cost, delivery cost & maintenance cost for this programme comes to amount of Rs.857000 & provision is made of Rs. 900000.

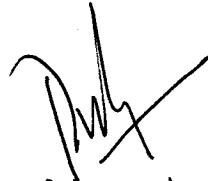
### (I) Quality assurance mechanism and expected programme outcomes-

The Centre for Internal Quality Assurance & Board of Studies of the University is accountable for regular monitoring of programme by continuous updating of the curriculum and syllabus. According to feedback provided by stakeholders including learners on continuous basis, a suitable action plan for B.Sc. (Bio) programme will be developed and duly incorporated into the teaching and delivery system. The Feedback from all stakeholders in terms of its relevance and appropriateness in catering to the need of the society, economy and environment are also considered in these key aspects. "At the end of the programme expected outcomes"-

- To acquired a general knowledge, principles and mechanisms of sciences.
- To acquired a basic knowledge of science.
- To acquire techniques relevant of subjects taught.
- To provide the practical expose and knowledge acquiring skill.
- To crate and develop the presentation skill in seminar/conference.
- To develop skill to e-library software and internet resources independently.

  
(Arvind Tiwari)

  
(Gaurav Shukla)

  
(Dr R P Dubey)