

**FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)**  
**Department of Biochemistry**  
**Course Curriculum**

<b>PART- A: Introduction</b>			
<b>Program: Bachelor in Science</b> <i>(Certificate / Diploma / Degree/Honors)</i>		<b>Semester - I / III / V</b>	<b>Session: 2024-2025</b>
1	<b>Course Code</b>	BCVAC- 01	
2	<b>Course Title</b>	Ethno Medicine in Chhattisgarh	
3	<b>Course Type</b>	Value added Course	
4	<b>Pre-requisite (if, any)</b>	As Per the Course	
5	<b>Course Learning Outcomes (CLO)</b>	<p><i>On successful completion of the course, the student shall be able to:</i></p> <ul style="list-style-type: none"> <li>➤ Explain the basic components of Medicinal plant.</li> <li>➤ Summarize the bioactive compound in herbs.</li> <li>➤ Recognize the disorder and ethno medicine for it.</li> <li>➤ Understand the effect of bioactive compound on the disease as well as interpret the effect of toxic chemicals on body parts and their cure.</li> </ul>	
6	<b>Credit Value</b>	<b>2 Credits</b>	<i>Credit = 15 Hours - learning &amp; Observation</i>
7	<b>Total Marks</b>	<b>Max. Marks: 50</b>	<b>Min Passing Marks: 20</b>
<b>PART -B: Content of the Course</b>			
<b>Total No. of Teaching-learning Periods (01 Hr. per period) - 30 Periods (30 Hours)</b>			
<b>Unit</b>	<b>Topics (Course contents)</b>		<b>No. of Period</b>
I	Historical perspective, scope and future prospects. Scrutinizing the term 'Ethno medicine'. Common and crucial Medicinal Plants in Chhattisgarh: Ethno medicine in India.		07
II	<b>Properties and functions of photochemical and their medicinal effects</b> - Glucosamine, Octacosanol, Lycopene, Flavonoids, Carnitine, Melatonin and Ornithine alpha, ketoglutarate. Use of proanthocyanidins, grape products, flaxseed oil as Medicine.		08
III	<b>Disease and Ethno medicine;</b> Common Herbal/ House hold/ food used as Medicines in in treatment for cognitive decline. Herbal/ House hold/ food used as Medicines for common disorders like Arthritis, Bronchitis, circulatory problems, hypoglycemia, Nephrological disorders, Liver disorders, Osteoporosis, Psoriasis and Ulcers etc.		07
IV	Brief idea about Medicinal effect of some Nutraceutical rich supplements e.g. Bee pollen, Caffeine, Green tea, Lecithin, Mushroom extract, Chlorophyll, Kelp and Spirulina etc.		08
<b>Keywords</b>	Phytochemical, Nutraceuticals, Herbal Medicine, Disorders, Disease.		

Name and Signature of Convener & Members of CBoS:

<b>PART-C: Learning Resources</b>								
<b>Text Books, Reference Books and Others</b>								
<i>Text Books Recommended –</i>								
<ul style="list-style-type: none"> <li>➤ 1. Gopalan C., et al Dietary Allowances for Indians, NIH, Hyderabad.</li> <li>➤ 2. Anita F.P. Clinical Dietetics and Nutrition, 4th Ed, 1997,</li> <li>➤ 3. Devlin, T.M. Text Book of Biochemistry with Clinical Correlation,</li> <li>➤ 4. Mahan, L.K. &amp; Ecott- Stump, S. [Ed.] Krause's Food, Nutrition and Diet Therapy .</li> </ul>								
<b>PART -D: Assessment and Evaluation</b>								
<b>Suggested Continuous Evaluation Methods:</b>								
<b>Maximum Marks: 50 Marks</b>								
<b>Continuous Internal Assessment (CIA): 15 Marks</b>								
<b>End Semester Exam (ESE): 35 Marks</b>								
<b>Continuous Internal Assessment (CIA): (By Course Teacher)</b>	<table border="1"> <tr> <td>Internal Test / Quiz-(2):</td> <td><b>10 &amp; 10</b></td> </tr> <tr> <td>Assignment/Seminar +Attendance -</td> <td><b>05</b></td> </tr> <tr> <td>Total Marks -</td> <td><b>15</b></td> </tr> </table>	Internal Test / Quiz-(2):	<b>10 &amp; 10</b>	Assignment/Seminar +Attendance -	<b>05</b>	Total Marks -	<b>15</b>	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against <b>15 Marks</b>
Internal Test / Quiz-(2):	<b>10 &amp; 10</b>							
Assignment/Seminar +Attendance -	<b>05</b>							
Total Marks -	<b>15</b>							
<b>End Semester Exam (ESE):</b>	<b>Two section – A &amp; B</b> <b>Section A: Q1. Objective – 05 x1= 05 Mark; Q2. Short answer type- 5x2 =10 Marks</b> <b>Section B: Descriptive answer type qts., 1out of 2 from each unit- 4x05 =20 Marks</b>							

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