



## Janki Devi Bajaj Government Girls College, Kota



### Self-Study Report Criterion 1

#### 1.1.1 Provisions of Continuous Internal Assessment

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## 1. Undergraduate Courses:

In undergraduate courses Monthly test/ Unit test is a part of regular curriculum. Sample papers of each subject is uploaded on institution website.

## 2. Postgraduate Courses:

In post graduate courses Internal Assessment is a part of CBCS scheme which is compulsory for all students.

### 2 a. M. Sc. Zoology

University of Kota, Kota												
M.Sc. Zoology												
Semester wise Consolidated Common Scheme of Examinations for the Academic Session 2022-2023												
Semester	Number, Code or ID and Nomenclature of Paper	Nomenclature of Paper	Duration of Exam (in Hrs)	Teaching Hrs/Week		Credit Point	Continuous or Internal Assessment (30%)		Distribution of Assessment Marks			
				Th	Pr		Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks
	Number of Paper								Semester or External Assessment (70%)		Total	
Semester III	Paper- 3.1	CHORDATA	3	4		4	30	12	70	28	100	40
	Paper- 3.2	ANIMAL ECOLOGY	3	4		4	30	12	70	28	100	40
	Paper- 3.3	SPECIAL PAPER	3	4		4	30	12	70	28	100	40
	Paper- 3.4	SPECIAL PAPER	3	4		4	30	12	70	28	100	40
	Paper- 3.5- I	(Lab Course I)	6		8	4			100	50	100	50
	Paper- 3.5- II	(Lab Course II)	6		8	4			100	50	100	50
	<b>TOTAL (SEMESTER III)</b>			<b>24</b>	<b>32</b>		<b>24</b>	<b>120</b>	<b>48</b>	<b>480</b>	<b>212</b>	<b>600</b>
Semester IV	Paper- 4.1	ANIMAL BEHAVIOUR	3	4			30	12	70	28	100	40
	Paper- 4.2	DEVELOPMENTAL BIOLOGY OF CHORDATES	3	4			30	12	70	28	100	40
	Paper- 4.3	SPECIAL PAPER	3	4			30	12	70	28	100	40
	Paper- 4.4	SPECIAL PAPER	3	4			30	12	70	28	100	40
	Paper- 4.5- I	(Lab Course I)	6		8				100	50	100	50
	Paper- 4.5- II	(Lab Course II)	6		8				100	50	100	50
	<b>TOTAL (SEMESTER IV)</b>			<b>24</b>	<b>32</b>		<b>24</b>	<b>120</b>	<b>48</b>	<b>480</b>	<b>212</b>	<b>600</b>

University of Kota, Kota

**M.Sc. Zoology**

Semester wise Consolidated Common Scheme of Examinations for the Academic Sessions 2022-2023

Semester	Number, Code or ID and Nomenclature of Paper	Duration of Exam (in Hrs)	Teaching Hrs/Week			Distribution of Assessment Marks						
	Number of Paper		Nomenclature of Paper	Th	Pr	Credit Point	Continuous or Internal Assessment (30%)	Semester or External Assessment (70%)		Total		
						Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min. Marks	
<b>Semester I</b>	Paper- 1.1	INVERTEBRATE : STRUCTURE AND FUNCTIONS	3	4		4	30	12	70	28	100	40
	Paper- 1.2	BIOCHEMISTRY	3	4		4	30	12	70	28	100	40
	Paper- 1.3	CELL BIOLOGY	3	4		4	30	12	70	28	100	40
	Paper- 1.4	EVOLUTION AND BIOSTATISTICS	3	4		4	30	12	70	28	100	40
	Paper- 1.5- I	(Lab Course I)	6		8	4			100	50	100	50
	Paper- 1.5- II	(Lab Course II)	6		8	4			100	50	100	50
	<b>TOTAL (SEMESTER I)</b>			<b>24</b>	<b>32</b>		<b>24</b>	<b>120</b>	<b>48</b>	<b>480</b>	<b>212</b>	<b>600</b>
<b>Semester II</b>	Paper- 2.1	IMMUNOLOGY AND BIOTECHNOLOGY	3	4			30	12	70	28	100	40
	Paper- 2.2	ANIMAL TAXANOMY	3	4			30	12	70	28	100	40
	Paper- 2.3	GENETICS	3	4			30	12	70	28	100	40
	Paper- 2.4	ANIMAL PHYSIOLOGY	3	4			30	12	70	28	100	40
	Paper- 2.5- I	(Lab Course I)	6		8				100	50	100	50
	Paper- 2.5- II	(Lab Course II)	6		8				100	50	100	50
	<b>TOTAL (SEMESTER II)</b>			<b>24</b>	<b>32</b>		<b>24</b>	<b>120</b>	<b>48</b>	<b>480</b>	<b>212</b>	<b>600</b>



## 2 b. M. Sc. Chemistry

### University of Kota, Kota

#### M.Sc. Chemistry: Semester wise Consolidated Scheme of Examinations

Year / Semester	Number, Code or ID and Nomenclature of Paper			Duration of Exam. (in Hrs.)	Teaching Hrs. / Week & Credit Points		Distribution of Assessment Marks			Minimum Passing Marks		
	Number of Paper	Code or ID of Paper	Nomenclature of Paper		Teaching Hrs. Th.	Credit Points Pr.	Internal Assessment	Semester Assessment	Total Marks	Internal Assessment	Semester Assessment	
1st Year I Semester	Paper-1.1	CHEM-511	Inorganic Chemistry	3	4	--	4	30	70	100	12	28
	Paper-1.2	CHEM-512	Organic Chemistry	3	4	--	4	30	70	100	12	28
	Paper-1.3	CHEM-513	Physical Chemistry	3	4	--	4	30	70	100	12	28
	Paper-1.4	CHEM-514	Mathematics for Chemists / Biology for Chemists	3	4	--	4	30	70	100	12	28
	Paper-1.5	CHEM-515	Chemistry Practical	12	--	16	8	--	200	200	--	100
<b>Total (I Semester)</b>				<b>24</b>	<b>16</b>	<b>16</b>	<b>24</b>	<b>120</b>	<b>480</b>	<b>600</b>	<b>48</b>	<b>212</b>
1st Year II Semester	Paper-2.1	CHEM-521	Inorganic Chemistry	3	4	--	4	30	70	100	12	28
	Paper-2.2	CHEM-522	Organic Chemistry	3	4	--	4	30	70	100	12	28
	Paper-2.3	CHEM-523	Physical Chemistry	3	4	--	4	30	70	100	12	28
	Paper-2.4	CHEM-524	Computer Applications in Chemistry	3	4	--	4	30	70	100	12	28
	Paper-2.5	CHEM-525	Chemistry Practical	12	--	16	8	--	200	200	--	100
<b>Total (II Semester)</b>				<b>24</b>	<b>16</b>	<b>16</b>	<b>24</b>	<b>120</b>	<b>480</b>	<b>600</b>	<b>48</b>	<b>212</b>
2nd Year III Semester	Paper-3.1	CHEM-631	Common Paper: Chromatography	3	4	--	4	30	70	100	12	28
	Paper-3.2	CHEM-632	Common Paper: Spectroscopy	3	4	--	4	30	70	100	12	28
	Paper-3.3	CHEM-633	Specialization Paper-I : Group I / II / III / IV / V	3	4	--	4	30	70	100	12	28
	Paper-3.4	CHEM-634	Specialization Paper-II : Group I / II / III / IV / V	3	4	--	4	30	70	100	12	28
	Paper-3.5	CHEM-635	Specialization Paper-III : Group I / II / III / IV / V	12	--	16	8	--	200	200	--	100
<b>Total (III Semester)</b>				<b>24</b>	<b>16</b>	<b>16</b>	<b>24</b>	<b>120</b>	<b>480</b>	<b>600</b>	<b>48</b>	<b>212</b>
2nd Year IV Semester	Paper-4.1	CHEM-641	Common Paper: Environmental Chemistry	3	4	--	4	30	70	100	12	28
	Paper-4.2	CHEM-642	Common Paper: Recent Methods of Organic Synthesis	3	4	--	4	30	70	100	12	28
	Paper-4.3	CHEM-643	Specialization Paper-I : Group I / II / III / IV / V	3	4	--	4	30	70	100	12	28
	Paper-4.4	CHEM-644	Specialization Paper-II : Group I / II / III / IV / V	3	4	--	4	30	70	100	12	28
	Paper-4.5	CHEM-645	Specialization Paper-III : Group I / II / III / IV / V	12	--	16	8	--	200	200	--	100
<b>Total (IV Semester)</b>				<b>24</b>	<b>16</b>	<b>16</b>	<b>24</b>	<b>120</b>	<b>480</b>	<b>600</b>	<b>48</b>	<b>212</b>
<b>Grand Total (I + II + III + IV Semester)</b>				<b>96</b>	<b>64</b>	<b>64</b>	<b>96</b>	<b>480</b>	<b>1920</b>	<b>2400</b>	<b>192</b>	<b>848</b>

#### Groups of Specializations in M.Sc. Chemistry

Year / Sem.	Specialization Papers	Code or ID	Group-I: Inorganic Chemistry	Group-II: Organic Chemistry	Group-III: Physical Chemistry	Group-IV: Analytical Chemistry	Group-V: Industrial Chemistry
2nd Year III Semester	Specialization Paper-I	CHEM-633	Bio-inorganic Chemistry	Organic Synthesis	Nuclear Chemistry	Advanced Analytical Techniques	Fundamentals of Industrial Process Calculations
	Specialization Paper-II	CHEM-634	Photo-inorganic Chemistry	Heterocyclic Chemistry	Physical Organic Chemistry	Analysis of Commercial Products	Fuel, Petrochemicals and Energy Technology
	Specialization Paper-III	CHEM-635	Inorganic Chemistry Practical	Organic Chemistry Practical	Physical Chemistry Practical	Analytical Chemistry Practical	Industrial Chemistry Practical
2nd Year IV Semester	Specialization Paper-I	CHEM-643	Organo-transition Metal Chemistry	Chemistry of Natural Products	Electrochemistry	Instrumental Methods of Analysis	Chemical Process Industries
	Specialization Paper-II	CHEM-644	Polymers	Medicinal Chemistry	Chemical Dynamics	Analysis of Consumers Products	Industrial Management, IPR & Regulatory Affairs
	Specialization Paper-III	CHEM-645	Inorganic Chemistry Practical	Organic Chemistry Practical	Physical Chemistry Practical	Analytical Chemistry Practical	Industrial Chemistry Practical

## 2 c. M. Sc. Mathematics

### University of Kota, Kota

#### M.Sc. Mathematics: Semester-wise Scheme of Examinations

Year /Semester	Nomenclature of Paper		Duration of Exam	Teaching Hours/ Week	Credit Points	Distribution of Marks				Total Marks	
	Paper Code/ ID	Nomenclature of Paper				Internal Assessment		Final Assessment		Total Marks	
						Max Marks	Passing Marks	Max Marks	Passing Marks	Max Marks	Passing Marks
Semester I	MATH 1C1	ALGEBRA I	3	6	6	50	20	100	40	150	60
	MATH 1C2	COMPLEX ANALYSIS OR ANALYSIS I	3	6	6	50	20	100	40	150	60
	MATH 1C3	MECHANICS	3	6	6	50	20	100	40	150	60
	MATH 1C4	METHODS OF APPLIED MATHS I	3	6	6	50	20	100	40	150	60
<b>TOTAL OF I SEMESTER</b>				<b>24</b>	<b>24</b>	<b>200</b>	<b>-</b>	<b>400</b>		<b>600</b>	
Semester II	MATH 2C1	NUMERICAL ANALYSIS	3	6	6	50	20	100	40	150	60
	MATH 2C2	ANALYSIS II	3	6	6	50	20	100	40	150	60
	MATH 2C3	PARTIAL DIFFERENTIAL EQUATIONS	3	6	6	50	20	100	40	150	60
	MATH 2C4	METHODS OF APPLIED MATHEMATICS - II	3	6	6	50	20	100	40	150	60
<b>TOTAL OF II SEMESTER</b>				<b>24</b>	<b>24</b>	<b>200</b>	<b>-</b>	<b>400</b>		<b>600</b>	
Semester III	MATH 3C1	ANALYSIS – III	3	6	6	50	20	100	40	150	60
	MATH 3O1	OPERATIONS RESEARCH - I	3	6	6	50	20	100	40	150	60
	MATH 3O2	FLUID DYNAMICS I	3	6	6	50	20	100	40	150	60
	MATH 3O3	MATHEMATICAL STATISTICS I	3	6	6	50	20	100	40	150	60
	MATH 3O4	MATHEMATICAL MODELLING I	3	6	6	50	20	100	40	150	60
	MATH 3O5	PROGRAMMING IN C WITH ANSI FEATURES I	3	6	6	50	20	100	40	150	60
	MATH 3O6	DIFFERENTIAL GEOMETRY & TENSOR	3	6	6	50	20	100	40	150	60
MATH 3O7	H-FUNCTION OF ONE VARIABLE AND FRACTIONAL CALCULUS	3	6	6	50	20	100	40	150	60	
<b>TOTAL OF III SEMESTER</b>				<b>24</b>	<b>24</b>	<b>200</b>	<b>-</b>	<b>400</b>		<b>600</b>	
Semester IV	MATH 4C1	TOPOLOGY	3	6	6	50	20	100	40	150	60
	MATH 4O1	OPERATIONS RESEARCH - II	3	6	6	50	20	100	40	150	60
	MATH 4O2	FLUID DYNAMICS - II	3	6	6	50	20	100	40	150	60
	MATH 4O3	MATHEMATICAL STATISTICS II	3	6	6	50	20	100	40	150	60
	MATH 4O4	MATHEMATICAL MODELLING II	3	6	6	50	20	100	40	150	60
	MATH 4O5	PROGRAMMING IN C WITH ANSI FEATURES II	3	6	6	50	20	100	40	150	60
	MATH 4O6	RELATIVITY	3	6	6	50	20	100	40	150	60
MATH 4O7	DISSERTATION	Viva	6	6	50	25	100	50	150	75	
<b>TOTAL OF IV SEMESTER</b>				<b>24</b>	<b>24</b>	<b>200</b>	<b>-</b>	<b>400</b>		<b>600</b>	
OTHER OPTIONAL COURSE#				-	4	-		100	50	100	50
<b>GRAND TOTAL</b>				<b>-</b>	<b>100</b>	<b>800</b>	<b>-</b>	<b>1700</b>		<b>2500</b>	

## 2 d. M. Sc. Physics

### Syllabus: M. Sc. (Physics) I & II Semester University of Kota, Kota (Rajasthan): 2022-23

#### Course Structure with Distribution of Marks:

Year / Semester	Serial Number, Code & Nomenclature of Paper			Duration of Exam	Teaching Hrs/Week & Credit			Distribution of Marks			Min. Pass Marks	
	Number	Code	Nomenclature		L	P	C	Conti. Assess.	Sem. Assess.	Total Marks	Conti. Assess.	Sem. Assess.
<b>I Year I Semester</b>	1.1	PHY101	Mathematical Methods in Physics	3 Hrs	4	--	4	30	70	100	12	28
	1.2	PHY102	Classical Mechanics	3 Hrs	4	--	4	30	70	100	12	28
	1.3	PHY103	Quantum Mechanics-I	3 Hrs	4	--	4	30	70	100	12	28
	1.4	PHY104	Advanced Electronics	3 Hrs	4	--	4	30	70	100	12	28
	1.5	PHY105	Physics Laboratory-I	6 Hrs	--	16	8	--	200	200	--	100
<b>Total</b>					<b>16</b>	<b>16</b>	<b>24</b>	<b>120</b>	<b>480</b>	<b>600</b>	<b>--</b>	
<b>I Year II Semester</b>	2.1	PHY201	Statistical Mechanics	3 Hrs	4	--	4	30	70	100	12	28
	2.2	PHY202	Classical Electrodynamics -I	3 Hrs	4	--	4	30	70	100	12	28
	2.3	PHY203	Quantum Mechanics-II	3 Hrs	4	--	4	30	70	100	12	28
	2.4	PHY204	Atomic & Molecular Physics	3 Hrs	4	--	4	30	70	100	12	28
	2.5	PHY205	Physics Laboratory-II	6 Hrs	--	16	8	--	200	200	--	100
<b>Total</b>					<b>16</b>	<b>16</b>	<b>24</b>	<b>120</b>	<b>480</b>	<b>600</b>	<b>--</b>	

**Syllabus: M. Sc. (Physics) III & IV Semester**  
**University of Kota, Kota (Rajasthan): 2022-23**

**Course Structure with Distribution of Marks:**

Year / Semester	Serial Number, Code & Nomenclature of Paper			Duration of Exam	Teaching Hrs/Week & Credit			Distribution of Marks			Min. Pass Marks	
	Number	Code	Nomenclature		L	P	C	Conti. Assess.	Sem. Assess.	Total Marks	Conti. Assess.	Sem. Asses.
II Year III Semester	3.1	PHY301	Nuclear Physics – I	3 Hrs	4	--	4	30	70	100	12	28
	3.2	PHY302	Classical Electrodynamics–II	3 Hrs	4	--	4	30	70	100	12	28
	3.3	PHY303	Solid State Theory	3 Hrs	4	--	4	30	70	100	12	28
	3.4	PHY304	Elective-I : 1] Energy Studies-I / 2] Material Science I / 3] Microwave Electronics-I / 4] High Energy Physics-I 5] Plasma Physics-I	3 Hrs	4	--	4	30	70	100	12	28
	3.5	PHY305	Physics Laboratory –III	6 Hrs	--	16	8	--	100	100	--	50
	<b>Total</b>					<b>16</b>	<b>16</b>	<b>24</b>	<b>120</b>	<b>380</b>	<b>500</b>	<b>--</b>
II Year IV Semester	4.1	PHY401	Nuclear Physics-II	3 Hrs	4	--	4	30	70	100	12	28
	4.2	PHY402	Solid State Physics	3 Hrs	4	--	4	30	70	100	12	28
	4.3	PHY403	Lasers Physics	3 Hrs	4	--	4	30	70	100	12	28
	4.5	PHY404	Elective-II: 1] Energy Studies-II 2] Material Science II 3] Microwave Electronics-II 4] High Energy Physics-II 5] Plasma Physics-II	3 Hrs	4	--	4	30	70	100	12	28
	4.6	PHY405	Physics Laboratory-IV	6 Hrs	--	16	8	--	100	100	--	50
	<b>Total</b>					<b>16</b>	<b>16</b>	<b>24</b>	<b>120</b>	<b>380</b>	<b>500</b>	<b>--</b>

## 2 e. M. Sc. Botany

University of Kota, Kota

M.Sc. Botany

Semester wise Consolidated Common Scheme of Examinations for the Academic Sessions 2022-2023

Semester	Number, Code or ID and Nomenclature of Paper		Duration of Exam. (in Hrs.)	Teaching Hrs / Week			Distribution of Assessment Marks					
	Number of Paper	Nomenclature of Paper		Th.	Pr.	Credit Point	Continuous or Internal Assessment (30%)		Semester or External Assessment (70%)		Total	
							Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks	Max. Marks	Min. Pass Marks
Semester-I	Paper-1.1	Biology and Diversity of Lower plants	3	4	-	4	30	12	70	28	100	40
	Paper-1.2	Pteridophyta, Gymnosperm and Paleobotany	3	4	-	4	30	12	70	28	100	40
	Paper-1.3	Plant Physiology	3	4	-	4	30	12	70	28	100	40
	Paper-1.4	Microbiology and Plant Pathology	3	4	-	4	30	12	70	28	100	40
	Paper-1.5 -I	Lab Course-I	6	-	8	4	--	--	100	50	100	50
	Paper-1.5 -II	Lab Course-II	6	-	8	4	--	--	100	50	100	50
	<b>Total (I Semester)</b>			<b>24</b>	<b>32</b>	<b>24</b>	<b>120</b>	<b>48</b>	<b>480</b>	<b>212</b>	<b>600</b>	<b>260</b>
Semester-II	Paper-2.1	Plant Ecology	3	4	-	4	30	12	70	28	100	40
	Paper-2.2	Plant resource Utilization & conservation	3	4	-	4	30	12	70	28	100	40
	Paper-2.3	Cell and Molecular Biology	3	4	-	4	30	12	70	28	100	40
	Paper-2.4	Biochemistry	3	4	-	4	30	12	70	28	100	40
	Paper-2.5-I	Lab Course-I	6	-	8	4	--	--	100	50	100	50
	Paper 2. 5-II	Lab Course-II	6	-	8	4	--	--	100	50	100	50
	<b>Total (II Semester)</b>			<b>24</b>	<b>32</b>	<b>24</b>	<b>120</b>	<b>48</b>	<b>480</b>	<b>212</b>	<b>600</b>	<b>260</b>



### 3. Assessment Pattern in CIE (Source UoK, Kota Syllabus)

**Assessment Pattern:**

The assessment of the student shall be divided into two parts in which first part is continuous assessment / mid-term assessment / internal assessment (30% weightage of the maximum marks) and second part is semester assessment / end-term assessment / external assessment (70% weightage of the maximum marks).

**(i) Mid-Term / Internal / Continuous Assessment:**

- (a) The continuous / mid-term / internal assessment (30% weightage of the maximum marks) for each theory paper shall be taken by the faculty members in the Department during each

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semester. Internal assessment part is further divided in two parts of equal weightage of marks as per the details given below:

S. No.	Internal Assessment	Mode of Internal Assessment	Max. Marks
(i)	Mid-Term / Internal / Continuous Assessment-I	Written Examination.	15 Marks
(ii)	Mid-Term / Internal / Continuous Assessment-II	Seminar / Presentation / Assignment / Dissertation / Quiz / Group Discussion / Viva-voce or any other mode of assessment.	15 Marks

**Note:** In the Mid-Term/Internal/Continuous Assessment-I, written examination shall be of one-hour duration for each theory paper and shall be taken according to the academic calendar which will be notified by the Department / University. Time duration for Mid-Term/Internal/Continuous Assessment-II is not allotted. It will be decided by the faculty member by which internal assessment will be taken.

## 4. Institutional Preparedness for CIA

A committee is constituted in every academic session that coordinates and to monitor the monthly test/ unit test and internal assessment of the students.

**कार्यालय प्राचार्य, जानकी देवी बजाज राजकीय कन्या महाविद्यालय, कोटा**  
अटाघर सर्किल के पास, नयापुरा, कोटा 324001 (राज) Phone: 0744-2324074, E-mail: jdbcollege@gmail.com

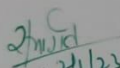
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क्रमांक/JDB/2023/01A दिनांक: 02.01.2023

**Office Order**

The different committees have been constituted by order No/JDB/2023/01 dated 02.01.2023 to carry out specific tasks and run the college smoothly. The committee with serial number nine named **CLASS CHECKING, STUDENT TEST & ATTENDANCE COMMITTEE** will ensure the conduction of term tests, proper running of the classes and monitor the student attendance in the classes for the session 2022-23.

9	CLASS CHECKING, STUDENT TEST & ATTENDANCE COMMITTEE	
1	PRATIMA SHRIVASTAVA	Convener
2	SANGEETA SINGH	Member
3	RENU TYAGI	Member

  
Principal  
JDB Government Girls College Kota  
जा.दे.ब.राजकीय कन्या महाविद्यालय,  
कोटा