



## Credit Distribution

Sr. No.	Course	3 Year Degree Programme			4 Year Honors Degree Programme			4 Year Honors with Research Degree Programme		
		Courses (3 Yr)	Credits (3 Yr)	%	Courses (4 Yr)	Credits (4 Yr)	%	Courses (4 Yr)	Credits (4 Yr)	%
1	Major	26	52	39.39	34	80	45.45	32	72	40.91
2	Elective	04	08	6.06	08	16	9.09	08	16	9.09
3	IKS	02	04	3.03	02	04	2.27	02	04	2.27
4	VSC	04	08	6.06	04	08	4.55	04	08	4.55
5	FP	01	02	1.52	01	02	1.14	01	02	1.14
6	OJT	01	04	3.03	02	08	4.55	01	04	2.27
7	RP	00	00	0.00	00	00	00	02	12	6.82
8	SEC	03	06	4.55	03	06	3.41	03	06	3.41
9	CEP	01	02	1.52	01	02	1.14	01	02	1.14
<b>Total ( Major) (A)</b>		<b>42</b>	<b>86</b>	<b>65.15</b>	<b>55</b>	<b>126</b>	<b>71.59</b>	<b>54</b>	<b>126</b>	<b>71.59</b>
1	Minor & RM	12	24	18.18	13	28	15.91	13	28	15.91
<b>Total (Minor) (B)</b>		<b>12</b>	<b>24</b>	<b>18.18</b>	<b>12</b>	<b>28</b>	<b>15.91</b>	<b>13</b>	<b>28</b>	<b>15.91</b>
1	OE	04	08	6.06	04	08	4.55	04	08	4.55
2	AEC	04	08	6.06	04	08	4.55	04	08	4.55
3	VEC	02	04	3.03	02	04	2.27	02	04	2.27
4	CC	01	02	1.52	01	02	1.14	01	02	1.14
<b>Total (C)</b>		<b>11</b>	<b>22</b>	<b>16.67</b>	<b>11</b>	<b>22</b>	<b>12.50</b>	<b>11</b>	<b>22</b>	<b>12.50</b>
<b>Grand Total (A+B+C)</b>		<b>65</b>	<b>132</b>	<b>100</b>	<b>79</b>	<b>176</b>	<b>100</b>	<b>78</b>	<b>176</b>	<b>100</b>

### Duration:

- The program shall be a full-time program.
- The duration of program shall be three years for Bachelor of Science and four years for Bachelor of Science with Honors or Bachelor of Science with Research.
- Every year students will have exist option with:
- (1<sup>st</sup> Year: Certificate, 2<sup>nd</sup> Year: Diploma, 3<sup>rd</sup> Year: Degree, 4<sup>th</sup> Year: Honors/ Research)
- These students are allowed to re-enter the degree program within three years and complete the degree program within the stipulated maximum period of Seven Years.

### Eligibility: 12<sup>th</sup> Pass with Science, or equivalent.

### Medium of Instruction: The medium of instructions shall be in English.

**Scheme of Examination & Standard of Passing (CCE and ESE):**As per the decision of the concern Board of Studies or Competent Authority.

- End Semester Exam (ESE): 30 Marks (Min 12 Marks for Passing)
- Continuous Comprehensive Evaluation (CCE): 20 Marks (Min 08 Marks for Passing)
- Total Marks = 50 Marks
- Minimum 40% Marks Required for Passing and there is separate head of Passing for End Semester Examination (ESE) and Continuous Comprehensive Evaluation (CCE).
- A candidate who acquire 32 credits or more during semester – I & II shall be admitted to B.Sc.II (appear for semester–III & IV examination).
- However the candidate shall not be admitted to B.Sc. III (Semester-V) unless he/she passed in all the subjects at B.Sc. I (Semester-I & Semester- II) and acquire 32 credits or more during semester – III & IV.
- However the candidate shall not be admitted to B. Sc.IV (Semester-VII) unless he/she passed in all the subjects at B. Sc. II (Semester -III & Semester-IV) & B. Sc. III (Semester-V & Semester-VI).
- However under the National Education Policy the rules extended by KBP University, time to time regarding ATKT will be applicable.

### Eligibility of the Core Faculty:

- As per rules and regulations of Karmaveer Bhaurao Patil University, Satara and Govt. of Maharashtra.
- Eligibility for Professor of Practice or Professional Trainer:  
Any other eligibility as per the guidelines and regulations passed by concern board of studies, academic council of the autonomous college and rules & regulations of Karmaveer Bhaurao Patil University, Satara and Government of Maharashtra and UGC norms.



**Karmaveer Bhaurao Patil University, Satara**  
**Faculty of Science and Technology**

**B. Sc. (Chemistry) Part-I**

Semester I				
Sr. No.	Components	Course Code	Course	Credits
1	Course-I	BCT 111	Physical Chemistry (P-I)	02
		BCT 112	Inorganic Chemistry (P-II)	02
		BCP 113	Practical Based on theory paper BCT 111 & BCT 112	02
2	Course-II		DSC-I, DSC-II & DSP-I	06
3	Course-III		DSC-I, DSC-II & DSP-I	06
4	OE	BCTOE 1	Environmental Studies P-I	02
5	IKS	BCTIKS 1	Introduction to Indian Knowledge System	02
<b>Total</b>				<b>22</b>
Semester II				
Sr. No.	Components	Course Code	Course	Credits
1	Course-I	BCT 121	Organic Chemistry (P-III)	02
		BCT 122	Analytical Chemistry (P-IV)	02
		BCP 123	Practical Based on theory paper BCT 121 & BCT 122	02
2	Course-II		DSC-III, DSC-IV & DSP-II	06
3	Course-III		DSC-III, DSC-IV & DSP-II	06
4	OE	BCTOE 2	Environmental Studies P-II	02
5	VEC	BCTVEC 1	Democracy, Election and Indian Constitution	02
<b>Total</b>				<b>22</b>
<b>EXIT OPTION:</b> Award of UG Certificate in Major <b>with 44 credits</b> & an additional 4 credits core NSQF Course/Internship OR Continue with Major & Minor.				

**B. Sc. (Chemistry) Part-II**

Semester III				
Sr. No.	Components	Course Code	Course	Credits
1	Major	BCT 231	Organic Chemistry (P-V)	02
		BCT 232	Analytical Chemistry (P-VI)	02
		BCP 233	Practical Based on theory paper BCT 231 & BCT 232	02
2	Minor		DSC-V, DSC-VI & DSP-III	06
3	OE	BCTOE 3	Environmental Studies P-III	02
4	VSC	BCTVSC 1	Food Quality Analyst	02
5	SEC	BCTSEC 1	Water Quality Analyst	02
6	AEC	BCTAEC 1	English P-I	02
7	IKS	BCTIKS 2	Indian Knowledge System P-II	02
<b>Total</b>				<b>22</b>
Semester IV				
Sr. No.	Components	Course Code	Course	Credits
1	Major	BCT 241	Physical Chemistry (P-VII)	02

		BCT 242	Inorganic Chemistry (P-VIII)	02
		BCP 243	Practical Based on theory paper BCT 241 & BCT 242	02
2	Minor		DSC-VII, DSC-VIII & DSP-IV	06
3	OE	BCTOE 4	Environmental Studies P-IV	02
4	VSC	BCTVSC 2	Fertilizer Analyst	02
5	SEC	BCTSEC 2	Soil Quality Analyst	02
6	AEC	BCTAEC 2	English P-II	02
7	VEC	BCTVEC 2	Environmental Studies	02
<b>Total</b>				<b>22</b>
<b>EXIT OPTION:</b> Award of UG Diploma in Major and Minor <b>with 88 Credits</b> & an additional 4 credits core NSQF Course/ Internship OR Continue with Major & Minor				

### B. Sc. (Chemistry) Part-III

Semester V				
Sr. No.	Components	Course Code	Course	Credits
1	Major	BCT 351	Physical Chemistry (P-IX)	02
		BCT 352	Inorganic Chemistry (P-X)	02
		BCT 353	Organic Chemistry (P-XI)	02
2	Electives	BCT 354 E1 BCT 354 E2	Analytical Chemistry (P-XII E1) / Industrial Chemistry (P-XII E2)	02
3	Major Lab	BCP 355	Practical Based on theory paper BCT 351, BCT 352 & BCT 353	02
4	Elective Lab	BCP 356	Practical Based on theory paper BCT 354	02
5	VSC	BCTVSC 3	Computer Skills for Chemist	02
6	AEC	BCTAEC 3	English P-III	02
7	OJT	BCTOJT 1	On Job Training in Chemistry I	04
8	CEP	BCTCEP 1	Community Engagement Programme in Chemistry	02
<b>Total</b>				<b>22</b>
Semester VI				
Sr. No.	Components	Course Code	Course	Credits
1	Major	BCT 361	Physical Chemistry (P-XIII)	02
		BCT 362	Inorganic Chemistry (P-XIV)	02
		BCT 363	Organic Chemistry (P-XV)	02
2	Electives	BCT 364 E1 BCT 364 E2	Analytical Chemistry (P-XVIE1) / Industrial Chemistry (P-XVIE2)	02
3	Major Lab	BCP 365	Practical Based on theory paper BCT 361, BCT 362 & BCT 363	02
4	Elective Lab	BCP 366	Practical Based on theory paper BCT 364	02
5	VSC	BCTVSC 4	Instrumental Analyst	02
6	SEC	BCTSEC 3	ETP Operator	02
7	FP	BCTFP 1	Field Project in Chemistry	02
8	CC	BCTCC 1	Co-curricular Course in Chemistry	02
9	AEC	BCTAEC 4	English P-IV	02
<b>Total</b>				<b>22</b>
<b>EXIT OPTION:</b> Award of UG Degree in Major <b>with 132 credits</b> OR Continue with Major & Minor.				

### B. Sc. (Chemistry) Part-IV Honors Degree

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Sr. No.	Components	Course Code	Course	Credits
1	Major	BCT 471	Physical Chemistry (P-XVII)	04
		BCT 472	Inorganic Chemistry (P-XVIII)	04
		BCT 473	Organic Chemistry (P-XIX)	04

2	Electives	BCT 474 E1 BCT 474 E2	Analytical Chemistry (P-XXE1)/ Applied Chemistry (P-XXE2)	02
3	Major Lab	BCP 475	Practical Based on theory paper BCT 471, BCT 472 & BCT 473	02
4	Elective Lab	BCP 476	Practical Based on theory paper BCT 474	02
5	Minor	BCT 477	Research Methodology	04
<b>Total</b>				<b>22</b>

#### Semester VIII

Sr.	Components	Course Code	Course	Credits
1	Major	BCT 481	Physical Chemistry (P-XXI)	04
		BCT 482	Inorganic Chemistry (P-XXII)	04
		BCT 483	Organic Chemistry (P-XXIII)	04
2	Electives	BCT 484 E1 BCT 484 E2	Analytical Chemistry (P-XXIV E1)/ Applied Chemistry (P-XXIV E2)	02
3	Major Lab	BCP 485	Practical Based on theory paper BCT 481, BCT 482 & BCT 483	02
4	Elective Lab	BCP 486	Practical Based on theory paper BCT 484	02
5	OJT	BCTOJT 2	On Job Training in Chemistry II	04
<b>Total</b>				<b>22</b>

Award of Four year UG Honors Degree in Major and Minor **with 176 credits.**

### B. Sc. (Chemistry) Part-IV Honors with Research Degree

#### Semester VII

Sr. No.	Components	Course Code	Course	Credits
1	Major	BCT 471	Physical Chemistry (P-XVII)	04
		BCT 473	Organic Chemistry (P-XIX)	04
2	Electives	BCT 474 E1 BCT 474 E2	Inorganic Chemistry (P-XXII) / Analytical Chemistry (P-XXE1)	04
3	Major Lab	BCP 475	Practical Based on theory paper BCT 471 & BCT 472	02
4	Minor	BCT 476	Research Methodology	04
5	RP	BCTRP 1	Research Project in Chemistry I	04
<b>Total</b>				<b>22</b>

#### Semester VIII

Sr. No.	Components	Course Code	Course	Credits
1	Major	BCT 481	Physical Chemistry (P-XXI)	04
		BCT 483	Organic Chemistry (P-XXIII)	04
2	Electives	BCT 484 E1 BCT 484 E2	Inorganic Chemistry (P-XXII) / Analytical Chemistry (P-XXIV E1)	04
3	Major Lab	BCP 485	Practical Based on theory paper BCT 481 & BCT 482	02
4	RP	BCTRP 2	Research Project in Chemistry II	08
<b>Total</b>				<b>22</b>

Award of Four year UG Honors Degree in Major and Minor **with 176 credits.**

Chairman  
BoS in Chemistry

Secretary  
Academic Council

Chairman  
Academic Council