



**INTEGRAL  
UNIVERSITY**  
— LUCKNOW - INDIA —



# **ORDINANCE**

**for**

## **Bachelor of Computer Application** **(As per AICTE Model Curriculum and NEP-2020)**

**Faculty of Engineering and Information Technology**  
*(Effective from Session 2025-2026)*

### Definitions of Key Words:

1. **Choice Based Credit System (CBCS):** It is the system formulated by the UGC in 2015. The CBCS provides choice for students to select from the prescribed courses (core, elective or minor or soft skill courses). Under the CBCS, the requirement for awarding a degree or diploma or certificate is prescribed in terms of minimum number of credits to be completed by the students.
2. **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.
3. **Semester:** Each semester will consist of 15-16 weeks of academic work equivalent to 90 actual teaching days. In a bi-semester system, an academic year consists of two semesters. The odd semesters may be scheduled from June/July to November/December, and even semester from December/January to April/May.
4. **Program:** A program, hereinafter, shall mean an academic program leading to award of a degree, diploma or certificate. It comprises a fixed set of Core (compulsory) Courses and some choice based (optional) Courses with a minimum Credit requirement.
5. **Course:** A course, usually referred to as 'paper', is a component of a program, comprising one or a combination of some academic forms of instructions such as lectures, tutorials, laboratory work, field work, outreach activities, project work, vocational training, viva, seminars, term papers, assignments, presentations, self-study etc. or a combination of some of these. All courses should define learning objectives and students' learning outcomes. Each course is to be identified by a unique course code and course title.
6. **Credit:** Credit defines the quantum of work-load for a course. Generally, one hour of theory or one hour of tutorial or two hours of laboratory work, per week for a duration of a semester result in the award of one credit.
7. **Grade Point:** It is a numerical weight allotted to each letter grade on a 10-point scale.
8. **Letter Grade:** It is an index of the performance of students in a course. Grades are denoted by letters O, A, B, C, D, E, P, F and Ab.
9. **Credit Point:** It is the product of grade point and number of credits for a course.
10. **SGPI:** The Semester Grade Performance Index (SGPI) of a student in a Semester is the weighted average of the Grade Points secured by the student in all the Credit Courses that he/she registered in that Semester.
11. **CGPI:** The Cumulative Grade Performance Index (CGPI) of a student in a program is the accumulated weighted average of the Grade Points secured by the student in all the Credit Courses that he/she registered in the current and previous semesters.

**INTEGRAL UNIVERSITY, LUCKNOW**  
**Ordinances for Bachelor of Computer Application Program**

**1. Admission**

Admission to Bachelor of Computer Application (BCA) 1<sup>st</sup> semester will be made as per the requirement prescribed by the Academic Council of Integral University, Lucknow (here-in after called University).

**2. Eligibility**

The eligibility criteria for admission to BCA program is mentioned in Annexure I.

**3. Attendance**

3.1 The attendance of learners shall be counted from the date of their registration in the class.

3.2 Each learner is normally required to attend all the lectures, tutorials and lab, etc. However, a minimum attendance of 75% will be necessary. However, the Dean of Engineering & IT may relax this minimum requirement due to medical or other genuine reasons.

3.3 Attendance for participation in prescribed activities such as NCC, NSS, inter-university sports and events, educational tours, field work, training, and curricular/co-curricular activities sponsored by the University shall be credited towards the aggregate attendance.

3.4 If a learner is continuously absent from classes without proper application and sanction for a period of 30 days, or if their cumulative attendance is less than 30%, appropriate action shall be taken against them, which may include striking off their names from the rolls. Such student may apply for readmission upon recommendation from the Dean Engineering & Information Technology.

3.5 A learner who fails to achieve the prescribed minimum attendance as per the provisions of article 3.2 above shall not be allowed to appear in the Continuous Assessment and the End of Semester Examinations.

**4. Selection of Specialisation/Stream**

4.1 At the end of first year of BCA program, learners are compulsorily required to choose a specializations/stream from the following streams as given below:

***Data Science OR Artificial Intelligence and Machine Learning***

4.2 Once selected, there is no provision to change stream in subsequent semesters.

4.3 At the end of third year, a learner may choose to continue to fourth year to pursue BCA (Honours) with their chosen stream or BCA (Honours with Research) degree or may exit with a three-year BCA degree.

**5. Duration**

5.1 Total duration of the BCA Program shall be 3 years, each year comprising two semesters. Each semester shall have normally 90 working days, or as prescribed by the University. At the end of third year, a learner may wish to continue to fourth year (optional) as mentioned in clause 4.3.

5.2 A learner, who has failed twice in the 1<sup>st</sup> year shall not be allowed to continue the studies further in the program the learner was admitted. However, a learner who has not appeared due to genuine reasons or has not been permitted to appear in the examination

in 1<sup>st</sup> and/or 2<sup>nd</sup> semester of the first year may be allowed for one more attempt to appear in the examination upon the approval of the competent authority.

- 5.3 The maximum duration allowed for a learner admitted in the 1<sup>st</sup> semester to complete the BCA Program shall be 7 (seven) effective study years. If a learner at any stage of the study is found unable to complete it within the said study period, the learners shall not be allowed to continue their studies further.

## 6. Entry and Exit Option

The following entry and exit options will be made available to the students joining the BCA program:

### Entry Options

- Re-entry into Second Year (Third Semester)
- Re-entry into Third Year (Fifth Semester)
- Re-entry into Fourth Year (Seventh Semester)

Re-entry to any of the year is allowed only after the learner has earned requisite credits in the previous year of the year a learner wish to take re-entry.

### Exit Options

- **One Year:** Undergraduate Certificate in Computer Application
- **Two Years:** Undergraduate Diploma in Computer Application
- **Three Years:** Bachelor in Computer Application (BCA)
- **Four Years:** BCA (Honours) or BCA (Honours with Research)

The criteria for various exit options are mentioned in Annexure II.

## 7. Curriculum

- 7.1 The 3-year curriculum has been divided into 6 semesters and shall include lectures, tutorials, practical, seminars, projects and industrial training/internship as defined in the scheme of instructions, examinations and executive instructions issued by the University.
- 7.2 The curriculum will also include such other curricular, co-curricular and extra - curricular activities as may be prescribed by the University from time to time.
- 7.3 The details of variants of BCA programs offered by the university to the learners are given below:

**Table 1: Variants of BCA Program**

S. No.	Program	Variant	Total Number of Years	Total Number of Credit Requirements	Remarks
1	BCA	BCA	3	120	Course Structure in line with NEP 2020
2	BCA	BCA (Honours)	4	160	This variant offers learners to get a specialized degree in their chosen stream.
3	BCA	BCA (Honours with Research)	4	160	This variant is designed for students interested in academic and research careers.

### 7.4 Credit System

Each BCA Program will have a curriculum in which every course will be assigned certain credits reflecting its weight and contact periods per week.

In addition to theory and laboratory courses, there may be other courses such as seminar, project, industrial training/internship, capstone projects, extension activities etc., which will be assigned credits as per its contributions to the program without regard to contact periods.

## **7.5 Course Categories**

The curriculum for BCA will contain courses from the following categories having credits in such a way that the total credits will be equal to that required for the award of BCA degree as specified in clause 7.3.

**Table 2: Types of Courses.**

<b>Course Code</b>	<b>Definitions</b>	<b>Credit Range</b>
CC	Core Courses	50-55
AEC	Ability Enhancement Courses	3-6
MDE	Multi-Disciplinary Elective	2-5
VAC	Value Added Courses	6-8
SEC	Skill Enhancement Courses	27-30
DSE	Discipline Specific Elective	27-30

## **7.6 The Curriculum Structure**

The curriculum will contain a list of all courses, with each course having a course category, course code, course title, number of credits assigned, number of contact periods per week, and the marks assigned to various components of evaluation.

## **7.7 Approval of the Curriculum**

The curriculum of BCA programs will be prepared by the department concerned and endorsed by the Board of Studies of the department. It will then be tabled at the Faculty Board for further endorsement. Once endorsed by the Faculty Board, it will be tabled in the Academic Council for approval. After approval, the curriculum will be implemented. The same procedure shall be used for any modification in the curriculum.

# **8. EXAMINATION/ASSESSMENT AND GRADING**

## **8.1 Components of Evaluation**

The evaluation of learners in a course shall be a continuous process and it is based on their performances in the End of Semester Examinations, Continuous Assessment.

The weightages of End of Semester Examination (ESE) and Continuous Assessment (CA) for awarding of Grades shall be as per Annexure III.

## **8.2 Grading of Performance**

### **8.2.1 Letter Grade and Grade Point Allocation**

The Credit and Grading system will be effective from the academic year 2025-26 for Faculty of Engineering & Information Technology. For each course, based on the combined performance in all assessments in a particular semester as per the curriculum/syllabus, the learner is awarded a letter grade. These letter grades not only indicate a qualitative assessment of the learner's performance but also carry a quantitative (numeric) equivalent called the Grade Point. The letter grades and their equivalent grade point applicable for BCA programs are given below:

**Table 3: Letter Grade and Grade Point**

Percentage of Marks Obtained	Letter	Grade Points	Performance
85.00 – 100.0	O	10	Outstanding
80.00 – 84.99	A	9	Excellent
75.00 – 79.99	B	8	Very Good
65.00 – 74.99	C	7	Good
60.00 – 64.99	D	6	Fair
55.00 – 59.99	E	5	Average
40.00 – 54.99	P	4	Pass
Less than 40.00	F	0	Fail
Absent	Ab	0	Absent

*Note: SGPI & CGPI is calculated as per guideline provided in Annexure IV*

### 8.3 Award of Grades

A learner will be declared **PASS** if,

- A learner shall secure at least 35% of total marks in the End of Semester Theory Examination and 35% of total marks in the End of Semester Practical Examination separately.
- Additionally, the learner shall achieve an overall combined score of at least 40% (ESE + CA) in that course.
- There is no minimum pass percentage in the continuous assessment of any course/paper.

### 8.4 Carry Forward of Marks

8.4.1 In case of a learner who does not secure at least 35% marks in the End of Semester theory Exam or 35% of total marks in the End of Semester Practical Examination or at least 40% overall marks (ESE+CA) in any course, then the learner has to reappear in the End of Semester Examination of that course. However, the marks of the Continuous Assessment shall be carried over for that course. In special cases, the learner may be allowed to reappear in the Continuous Assessment subject to the approval of the competent authority.

8.4.2 Assessment will be conducted as per the process defined by the University.

8.4.3 The facility of back paper/carryover will be available to the students for the papers of the odd semester only in the odd semester and papers of even semester only in the even semester.

### 8.5 Promotion of learner

8.5.1 A learner will always be promoted from the current odd semester to the next even semester, irrespective of the result of the current odd semester.

8.5.2 Promotion from the current even semester to the next odd semester i.e. from current year to next year is subjected to the condition that learner must have earned at least 40% of the total required credits from the previous years.

8.5.3 For promotion from the second year to the third year, it is necessary to pass all the required courses of the first year.

8.5.4 For promotion from the third year to the fourth year, it is necessary to pass all the required courses of the second year.

**9. Re-Registration**

A learner who has not been promoted to a higher class will have to repeat the whole year, upon re-registration and paying the prescribed fees.

**10. Result**

If a learner passes all the examinations and fulfills all the requirements for the award of degree, their result will be shown as **Passed** mentioning “Letter Grade” obtained by the learner.

(a) The division awarded will be based on the CGPI. Numerical percentage will be calculated by the following formula.

$$y = 6.5 * x + 25$$

Where y is percentage & x is CGPI

The division will be awarded as mentioned in Table 4:

**Table 4: Division Classification Based on Percentage Scores**

Division	Percentage Range
First Division (Honours)	75% and above
First Division	$\geq 60\%$ but $< 75\%$
Second Division	$< 60\%$ but $\geq 41\%$
Fail	Less than 41%

(b) Ranks/Positions will be determined at the end of even semesters. Only those students who fulfill the following conditions will be eligible for ranks/positions:

- (i) They do not have any break in their studies.
- (ii) They have passed every scheduled course in first attempt.
- (iii) They have passed every course on time as per the curriculum.
- (iv) They have earned credits as per the schedule given in the curriculum.
- (v) They have not been given any academic concessions, such as improvement of their grades in any course after passing the course.

The learners who violate any of the above conditions will not be awarded any rank/position. The ranks/positions will be determined on the basis of CGPI.

**11. Grace Marks:**

11.1 A learner may be awarded grace marks up to a maximum total of 12 marks distributed across a maximum of four courses in each academic year, provided they can be declared to have passed the academic year by the award of these marks.

11.2 The grace marks shall be added to the aggregate marks.

11.3 Grace marks shall be awarded in carryover/special examinations.

**12. Scrutiny:**

12.1 Scrutiny shall be allowed in only theory papers for which the candidate has to apply within 15 days after declaration of semester result.

12.2 Re-evaluation is not permitted.

**13. Cancellation of Admission**

The admission of a learner at any stage shall be cancelled if:

(i) The learner is not found qualified as per AICTE/ State Government norms and guidelines or the eligibility criteria prescribed by the University.

or

(ii) The learner is found unable to complete the course within the stipulated time as prescribed in clause 5.3

or

(iii) The learner is found involved in creating indiscipline in the University.

or

(iv) The learner is found involved in any criminal case or has given any false statement

**14. Migration from any other University**

A learner may be able to transfer credits to another program within the University or may be able to transfer credit towards a program from a different University/Institution. Credit transfer depends on whether the accumulated credit is relevant to the program to which the learner wants to transfer.

No-Objection Certificate (NOC) is required from University/Institute for migration

**The Academic Council shall have the absolute power to relax or amend any provision provided in the ordinances.**



### **Annexure-I**

#### **For admission of learners through IJET:**

Candidates who have passed '10+2' from any recognized Board or equivalent examination with at least 45% marks (including all subjects) are eligible for admission to the 1<sup>st</sup> year of the BCA program offered by the university.

## Annexure-II

### Exit Criteria after First Year of BCA Program

Students will have the option to exit the Bachelor of Computer Application (BCA) program after successfully completing the first year. Upon exit, they will be awarded a **UG Certificate in Computer Application**. To be eligible for this certificate, students must complete an additional 04 credits in one of the following areas:

1. **Skill-Based Subject:** A course designed to enhance practical and technical skills in the field of computer applications.
2. **Work-Based Vocational Course:** A vocational course offered during the summer term that emphasizes hands-on training and workplace readiness.
3. **Internship/Apprenticeship:** A professional internship or apprenticeship program in a relevant field, with a minimum duration of 08 weeks, which will take place after the second semester.
4. **Social Responsibility & Community Engagement:** Active engagement with an NGO or community organization for a minimum duration of 08 weeks, focusing on real-world problem-solving, social responsibility, and community service.

Students will be required to complete the 08-week program during the summer term following their second semester. The exiting students will clear the subject / submit the Internship Report as per the University schedule.

### Exit Criteria after Second Year of BCA Program

Students will have the option to exit the Bachelor of Computer Application (BCA) program after successfully completing the second year. Upon exit, they will be awarded a **UG Diploma in Computer Application**. To be eligible for this diploma, students must complete an additional 04 credits in one of the following areas:

1. **Skill-Based Subject:** A specialized course aimed at enhancing technical and practical expertise in computer applications.
2. **Work-Based Vocational Course:** A vocational course offered during the summer term, focused on building practical, industry-relevant skills.
3. **Internship/Apprenticeship:** A professional internship or apprenticeship with a minimum duration of 08 weeks, conducted after the fourth semester, offering hands-on experience in a relevant field.
4. **Social Responsibility & Community Engagement:** Involvement with an NGO or community-based organization for a minimum of 08 weeks, contributing to social initiatives and applying computer application knowledge to solve real-world challenges.
5. **Capstone Project:** Completion of a capstone project integrating the skills and knowledge gained during the first two years of the program, which can be an independent or group project.

Students will be required to complete the 08-week program or project during the summer term following their fourth semester.

Students opting for this exit will also be required to submit an Internship/Apprenticeship Report or complete the Capstone Project as per the schedule outlined by the University before they are awarded the UG Diploma.

### Exit Criteria after Third Year of BCA Programme

The students shall have an option to exit after 3rd year of Computer Application Program and will be awarded with a Bachelor's in Computer Application.

### Annexure-III

The weightages of Continuous Assessment Exam and End of Semester Exam for awarding of Grades shall be as follows.

**Theory Type of Courses:** This type of course includes lecture or/and tutorial classes.

Continuous Assessment	End Semester Exam	Total
50%	50%	100 %

(i) **Theory and Practical Type of Courses:** This type of course includes lecture and/or tutorial & practical classes.

Theory Part	Practical part	Total
75%	25%	100 %

The weightage of Continuous Assessment and the End of Semester exam for theory part shall be 50% each. The weightage of Continuous Assessment and the End of Semester exam for practical part shall be 50% each.

(ii) **Practical Type of Courses:** This type of course includes either practical or one lecture & practical classes.

Continuous Assessment	End Semester Exam	Total
50%	50%	100%

(iv) **Major Project**

The BCA Project evaluation shall be carried out by the concerned Department. The weightage of assessment is as follow:

Continuous Assessment	End Semester Exam	Total
50 %	50 %	100%

(v) **Research Internship Report/Dissertation**

This course has only End of Semester examination component. The weightage of assessment is as follow.

End Semester Exam (Practical Component)	Total
100 %	100%

**Note:** Continuous Assessment marks shall be awarded based on tests, quizzes, assignments, attendance, day-to-day performance in laboratory sessions, viva voce, experiments conducted, presentations, report writing, and submission, etc., and shall be assessed using rubrics system. The breakdown of marks for continuous assessment components will be implemented according to the approved evaluation scheme.

#### Annexure-IV

##### **Computation of SGPI and CGPI**

The Semester Grade Performance Index (SGPI) of a student in a semester is the weighted average of the Grade Points secured by the student in all the Credit Courses that he/she registered in that semester, irrespective of whether he/she could or could not complete the courses. The SGPI of a student in a semester shall be calculated on the UGC's 10-point scale by finding the ratio of sum of the product of the number of credits with the grade points scored by the student in all the courses in that semester to the sum of the number of credits of all the courses attended by the student in that semester.

$$SGPI = \frac{\sum_{i=1}^n (C_i G_i)}{\sum_{i=1}^n (C_i)}$$

Where:

n = number of courses in a current semester

C<sub>i</sub> = number of credit hours of i<sup>th</sup> course in a current semester G<sub>i</sub> = Grade point of i<sup>th</sup> course in the current semester SGPI is rounded off to 2 decimal points.

The Cumulative Grade Performance Index (CGPI) of a student in a program is the accumulated weighted average of the Grade Points secured by the student in all the Credit Courses that he/she registered in the current and previous semesters. The CGPI of a student shall be calculated on the UGC's 10-point scale by finding the ratio of sum of the product of the number of credits and SGPI of the student in the current and previous semester to the sum of the number of credits in the current and previous semesters.

$$CGPI = \frac{\sum_{m=1}^r C_m (SGPI)_m}{\sum_{m=1}^r (C)_m}$$

Where:

C<sub>m</sub> = number of credit hours in the m<sup>th</sup> semester (current & previous semesters)

(SGPI)<sub>m</sub> = Semester Grade Point Index in the m<sup>th</sup> semester (current & previous semesters) r = number of semesters

CGPI is rounded off to 2 decimal points.