NATIONAL EDUCATION POLICY

(NEP-2020)

Scheme of Implementation for

BCA (Bachelor of Computer Application)

Three /Four Year Undergraduate Degree

Programme

In the Faculty of

Science and Technology (Science Group)

Sant Gadge Baba Amravati University

Amravati, Maharashtra

Commencement Year: 2024 – 2025

Message from AICTE

The quality of technical education depends on many factors but largely on- out- come based socially and industrially relevant curriculum, good quality motivated faculty, teaching learning process, effective industry internship and evaluation of students based on desired outcomes. Therefore, it was imperative that a Model Curriculum be prepared by best experts from academia and industry, keeping in view the latest industry trends and market requirements and be made available to all universities / board of technical education and engineering institutions in the country. AICTE constituted team of experts to prepare the model curriculum of UG Degree Course in Bachelor of Computer Application (BCA). Similar exercise is done for other UG, Diploma and PG level in engineering, MBA, PGDM, Architecture, etc.

It comprises of Computer Application courses, having focus on fundamentals, significant discipline level courses and ample electives both from the disciplines and cross disciplines including emerging areas all within a cumulative structure of 120-160 credits. Summer Internships have been embedded to make the student understand the industry requirements and have hands-on experience. These programs are meticulously crafted to meet the demands of the modern business world, integrating theoretical knowledge with practical application. Emphasizing innovation, entrepreneurship, and ethical social leadership, the curriculum aims to develop well-rounded individuals capable of driving organizational growth, fostering sustainable practices, and contributing positively to society.

With a focus on interdisciplinary learning, experiential learning methodologies, and industry-relevant projects, these programs seek to instill critical thinking, problem-solving abilities, and effective communication skills in students. Additionally, the Honours and Honours with Research tracks offer enhanced opportunities for academic excellence, advanced research, and specialization in specific domains of Computer Application.

As a major initiative by AICTE, a three-week mandatory induction program for students has also been designed and has to be given at the beginning of the course. The idea behind this is to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature.

AICTE places on record, special thanks to Dr. Muralidhara B.L., Senior Professor, Dept. of Computer Application, Bangalore University, Bengaluru, Prof. Sukhdeep Singh, DCRUST, Haryana, Prof. Priti Sehgal, Dept. of Computer Science, Keshav Mahavidalaya, University of Delhi, Delhi, Dr. Srabani Mukhopadhyaya, Associate Professor, BIT Mesra Ranchi, Sh. Siddarth Arya, Technical Delivery Manager, Wipro Limited, Dr. R Venkateshwaran, Former-CTO, Persistent Systems Ltd and other committee members. We are sure that this Model Curriculum will help to enhance not just the employability skills but will also enable youngsters to become job creators.

We strongly urge the institutions / universities / boards of technical education in India to adopt this Model Curriculum at the earliest. This is a suggestive curriculum and the concerned university / institution / board should build on and exercise flexibility in readjustment of courses within the overall 120-160 credits.

Prof. T G Sitharam)
Chairman, AICTE

PREFACE
Greetings from the AICTE!

We, the Expert Committee constituted by the All India Council for Technical Education (AICTE), vide this letter are submitting the draft of the model curriculum for the Bachelor of Computer Application (BCA) programs at the undergraduate level. In alignment with our continuous endeavour to enhance the quality of education in India, we embarked to envisage a model curriculum for undergraduate programs in Computer Application (BCA). This initiative was driven by the imperative need to keep our academic offerings relevant, industry-aligned, and futuristic, thereby nurturing a cadre of competent and innovative professionals.

The committee, comprising esteemed members from academia and industry, has worked diligently over the past several weeks to develop a comprehensive and industry-aligned curriculum that caters to the evolving needs of the management education landscape in India. The committee was chaired by Dr. Muralidhara B.L., Senior Professor, Dept. of Computer Application, Bangalore University, Bengaluru, Prof. Sukhdeep Singh, DCRUST, Haryana, Prof. Priti Sehgal, Dept. of Computer Science, Keshav Mahavidalaya, University of Delhi, Delhi, Dr. Srabani Mukhopadhyaya, Associate Professor, BIT Mesra Ranchi, Sh. Siddarth Arya, Technical Delivery Manager, Wipro Limited, Dr. R Venkateshwaran, Former-CTO, Persistent Systems Ltd.

The committee held a series of meetings to deliberate on the key aspects of the curriculum and ensure that it meets the highest standards of quality and relevance.

The model curriculum has been drafted keeping in mind the following objectives:

1. Align the curriculum with the current and future needs of the industry, ensuring that graduates are not only well-equipped with foundational knowledge in management principles, practices, and financial acumen but also possess essential communication skills. This alignment ensures our graduates are prepared to excel in their careers and adapt to the evolving business landscape.

2. Incorporate best practices in management education from

leading institutions across the globe, while adapting them to the Indian context. This includes the integration of a 3 Weeks Compulsory Induction Program (UHV-I) aimed at instilling core values and ethics in students, setting a precedent for a holistic educational journey that mirrors global standards.

3. Develop a comprehensive framework that includes updated course descriptions, learning outcomes, and assessment methods, ensuring a holistic approach to management education. This framework now also emphasizes the importance of hands-on learning through courses like 'Artificial Intelligence and 'Data Science,' which are designed to provide students with practical skills and knowledge critical for the business world.

4. Identify and include relevant pedagogical resources, case studies, and reference materials to support effective teaching and learning. The curriculum has been enriched with case studies and materials that reflect the latest industry trends, ensuring that the teaching and learning process is dynamic, engaging, and directly relevant to the real- world business environment.

5. The committee has taken utmost care to ensure that the curriculum is dynamic, flexible, and future-oriented, enabling institutions to customize it based on their specific needs and regional requirements. The curriculum also lays emphasis on experiential learning, industry exposure, and the development of soft skills, which are critical for success in today's business environment.

Key features of the draft model BCA Curriculum:

1. **Flexible Duration and Structure:** The curriculum offers a flexible duration of three to four years, divided into 6 or 8 semesters, with multiple entry and exit points. This structure accommodates a broad range of student needs and learning paces, providing certificates and diplomas at various stages.

2. **Comprehensive Credit Distribution:** The curriculum encompasses a total of 120 credits for the 3-year program and 160 credits for the 4-year (Honours and Honours with Research) programs. It includes a balanced mix of Humanities & Social Science Courses, Management Courses, Pro- gram Core and Elective Courses, Open Electives, and a significant emphasis on hands-on learning through Projects, Seminars, and Intern-ships.

3.**Innovative Course Structure:** The course structure introduces a rigorous Induction Program, mandatory visits/workshops, and expert lectures to foster a holistic educational experience. The model curriculum envisages connect of core subjects with NEP and its encompassing elements such as Holistic and Integrated Education, 21st Century Skills, Flexibility and Choice, Environmental Awareness, Value- Based Education, Emphasis on Innovation, Understanding Human Behaviour, Empathy and Social Awareness. The fundamentals will provide the requisite robust

grounding in management/business, the liberal arts subjects would help in furthering that grounding and also enable pluggability into international higher education systems (from exchange and dual degree perspectives) and the elements of sustainability, technology and behavioural sciences will ensure holistic development in synch with NEP.

4. **Diverse Specializations and Practical Exposure:** Students will have the opportunity to specialize in emerging areas through Open Electives and gain practical experience through structured internships and project work. This practical exposure is designed to enhance employability and entrepreneurial capabilities.

5. **Assessment and Grading:** A detailed and transparent assessment mechanism ensures that students' performances are evaluated fairly, focusing on continuous learning and improvement. The grading system is aligned with the quality and rigor expected in higher education.

6. **Research Orientation for Honours Students:** The BCA (Honours with Research) program offers a unique pathway for students interested in academic and research careers. With a focus on advanced data analysis, research methodology, and a dissertation, this track prepares students for challenges in academia and industry research roles. It will also give students an opportunity to pave their path to higher education in management and technical fields.

We would like to express our heartfelt gratitude to AICTE for entrusting us with this important responsibility and providing us with the necessary support and guidance throughout the process. We also extend our sincere thanks to all the committee members for their invaluable contributions, expertise, and commitment to this endeavour.

We are hopeful that this model curriculum will serve as a benchmark for BCA education in India and contribute significantly to the growth and development of the nation's future business leaders. We request your kind perusal of the attached draft and look forward to your valuable feedback and suggestions. We remain committed to incorporating any necessary changes and finalizing the curriculum at the earliest.

Expert Committee for BCA Model Curriculum
All India Council for Technical Education (AICTE)

Sant Gadge Baba Amravati University, Amravati

NEP - 2020: Scheme of Implementation for BCA Three /Four Year Undergraduate Degree Programme

NEP Implementation in First Phase:

Applicability: This scheme shall be applicable to the undergraduate Programmes Batchelor of Computer Application (BCA) in the faculty of Science & Technology
In the BCA, two streams offered by university. Student may choose one of them at the time of admission in the First year.
- 101 Artificial Intelligence and Machine Learning
- 102 Data Science

Implementation Year

First Year (Semester I & II) :2024-25
Second Year (Semester III & IV) : 2025-26
Third Year (Semester V & VI) : 2026-27
Fourth Year (Semester VII & VIII) : 2027-28

General Course Structure & Theme

A. Definition of Credit:

1 Hr. Lecture (L) per week	1 Credit
1 Hr. Tutorial (T) per week	1 Credit
1 Hr. Practical (P) per week	0.5 Credit
2 Hours Practical (P) per week	1 Credit

B. Course code and definition:

Course code	Definitions
L	Lecture
T	Tutorial
P	Practical
CC	Core Courses
AEC	Ability Enhancement Courses
MDE	Multi-Disciplinary Elective course
VAC	Value added Courses
SEC	Skill Enhancement courses
DSE	Discipline Specific Elective
OE	Open Elective

Course Name: Bachelor in Computer Application, Bachelor in Computer Application (Honours)

Course Level/Duration/System:
Undergraduate / Three or Four years/6 or 8 Semesters with multiple entry and exit. The following option will be made available to the students joining BCA Research Program:

a. One year: Under Graduate Certificate in Computer Application
b. Two years: Under Graduate Diploma in Computer Application
c. Three years: Bachelor in Computer Application (BCA)
d. Four years: Bachelor in Computer Application with Honours: BCA (Honours) or Bachelor in Computer Application Honours with Research: BCA (Honours with Research)

Minimum Eligibility Criteria:
Eligibility for admission to Three-year BCA UG Program in the faculty of Science & Technology will be as follows:
- The Students passing H.S.C. Examination with Science stream OR
- The Students passing three years Diploma course in Computer Engg. / Electronics Engg. OR
- 10+2 level minimum competency vocational course in Computer Technology / Electronics Technology.

Minimum eligibility criteria for opting the course in the fourth year will be as follows:
1. BCA (Honours with Research): BCA Degree
2. For BCA (Honours): BCA Degree

Note : The students who are eligible for BCA (Honours with Research) shall have choice to pursue either BCA (Honours) or BCA (Honours with Research).

The fourth year of Four-year UG programme
The fourth year of the Four-year UG programme will not be granted to any such college as 'natural growth'. The affiliated colleges conducting 3-year UG degree programme will seek permission to commence fourth year of UG programme as extension by following the prevailing statutory procedures. However, colleges already having permission and recognition for the PG degree programme along with UG degree programme in the same Major shall be automatically allowed to continue PG degree programme and conduct the fourth year of UG Honors Degree programme without undergoing any additional procedures. Similarly, the colleges with approved / recognized Ph.D. Research Centre shall be automatically allowed to continue PG Degree programme and start the fourth year of UG Honors with Research Degree programme without undergoing any additional procedures. For students of colleges running only Three-year UG Degree Programme, the University shall evolve suitable mechanisms for admission to fourth-year honors program in other Colleges shall be evolved by the University separately.

Semester Wise Credit Distribution:

Semester Wise Credit Distribution of Proposed BCA, [BCA (Honours) And BCA (Honours With Research)] Program:

Semester	Core Courses	Ability Enhancement Courses	Multi-Disciplinary Elective course	Value added Courses	Skill Enhancement courses	Discipline Specific Elective	Total
I	8	2	2	2	5	-	19
II	12	-	-	2	7	-	21
III	11	0	0	2	4	3	20
IV	15	0	0	0	2	3	20
V	0	0	0	0	6	15	21
VI	4	1	0	0	4	10	19
BCA (Honours)							
VII	5	0	3	0	4	8	20
VIII					8	12	20
BCA (Honours with Research)							
VII	12					8	20
VIII	20						20

Category-wise distribution*

Description	Core Courses	Ability Enhancement Courses	Multi-Disciplinary Elective course	Value added Courses	Skill Enhancement courses	Discipline Specific Elective	Total
BCA	50	3	2	6	28	31	120
BCA (Honours)	55	3	5	6	40	51	160
BCA (Honours with Research)	82	3	2	6	28	39	160

3 Years BCA Program	**Total Credits = 120**
4 Years BCA (Honours) and BCA (Honours with Research)	**Total Credits = 160**

Note: Students can take extra credit course from their own department or from other department as per the Admitting Body / University norms.

After Year 1, Students are advised to take Social Responsibility & Community Engagement - encompassing Community Engagement with an NGO in the vacation time.

An Under Graduate Certificate in Computer Application will be awarded, if a student wishes to exit at the end of First year.

Exit Criteria after First Year of BCA Programme:

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.

   The mode and specifics of these additional credits will be determined by the respective University/Admitting Body, and 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.

Re-entry Criteria in to Second Year (Third Semester):
   The student who takes an exit after one year with an award of certificate may be allowed to re-enter in to Third Semester for completion of the BCA Program as per the respective University /Admitting Body schedule after earning requisite credits in the First year.

Note:

1. At the end of the Fourth Semester every student shall undergo Summer Training/ Internship / Capstone for Eight Weeks in the industry/Research or Academic Institute. This component will be evaluated during the fifth semester.
2. An Under Graduate Diploma in Computer Application will be awarded, if a student wishes to exit at the end of Second year.

Exit Criteria after Second Year of BCA Programme:
   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.

4. **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.

5. **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.

6. **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.
The specific mode of completing the additional credits will be decided by the respective University/Admitting Body, and 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/Admitting Body before they are awarded the UG Diploma.

Re-entry Criteria in to Third Year (Fifth Semester):

   The student who takes an exit after second year with an award of Diploma may be allowed to re-enter into fifth Semester for completion of the BCA Program as per the respective University / Admitting Body schedule after earning requisite credits in the Second year.

Bachelor In Computer Application Degree will be awarded, if a student wishes to exit at the end of Third year.

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.

Re-entry Criteria in to Fourth Year (Seventh Semester)

The student who takes an exit after third year with an award of BCA may be allowed to re-enter in to Seventh Semester for completion of the BCA (Honours) or BCA (Honours with Research) Program as per the respective University / Admitting Body schedule after earning requisite credits in the Third year.

Enrollment and Registration of Students on ABC

Creation of ABC ID: Credits awarded to a student from one program from an institution may be transferred/ redeemed by another institution upon the students consent through ABC. Therefore, it is essential to all students to enroll on ABC, Create ABC ID and share ABC ID with academic institution where he/she admitted.

Credit Transfer Mechanism: Credit Transfer Mechanism comprising of Credit Accumulation, Credit Recognition, Credit Redemption and Credit Transfer shall be as prescribed.

Examination and Assessment Process:

i.   The basic principle of the Credit framework is that Credits are a function of the successful completion of a program of study/ vocational education/ training and assessment. No Credit can be earned by the student unless the student is assessed for the achievement of the desired competencies and outcome of a program.

ii. Exit options are provided with Certificate, Diploma and Basic Bachelor's degrees to the students at the end of the second, fourth and sixth semesters of a Four Years Multidisciplinary Degree Programme. Students will receive a Bachelor's degree with Honors/ Research on successfully completing of all eight semesters of the UG Program either at a stretch or with opted exits and re-entries.

iii. For the smooth success of four-year degree programme with multiple entry and exit systems, the examination mode should be based on the combination of innovative trends in formative (informal and formal tests administered during the learning process) and summative (evaluation of students learning at the end of an instructional unit) examination modes in line with the UGC Report on 'Evaluation Reforms in Higher Educational Institutions (2019).

Examination, Evaluation and Assessment Scheme
Continuous Assessment Tests (CAT)

For internal assessment, the Continuous Assessment Tests (CAT) shall be conducted as under-

i.   Three CAT each of 8 / 10 Marks (Theory) as applicable and 10 Marks (Practical).
   • First on completion of 25% Syllabus of the course or on completion of 25 teaching days,
   • Second on completion of 50% Syllabus of the course or on completion of 50 teaching days,
   • Third on completion of 75% Syllabus of the course or on completion of 75 teaching days.

ii. Each concurrent assessment (CAT-I, II & III) will be mapped to relevant Course Learning Outcome.

iii. Total Performance in CAT (i.e.40 %) shall be based on the **best two out of three**in CAT examinations

iv. Internal assessment (CAT) shall be carried out by the respective course teacher by choosing variety of assessment tools/methods such as class test, record book, seminar, case study, field work, mini project work, quiz or any innovative method, which may be deemed to be appropriate for assessing the relevant course outcome.

Conduction of the Examination:

As per the scheme of teaching, learning, examination and evaluation, theory/practical examinations of Semester-I, II, III, IV, V, VI, VII and VIII shall be conducted by the University (except for Internal Examinations as applicable) at the end of each semester.

The theory/practical examinations of all the Semesters shall be held as per the following Schedule –

Sr. No.	Name of the Examination	End Sem Examination	Supplementary Examination*
1	Semester-I, III, V and VII	Winter	Summer
2	Semester-II, IV, VI and VIII	Summer	Winter

*The University may evolve mechanism for conducting repeat end semester examination. Such repeat examinations shall have to be conducted within one month of the regular even semester examination and on demand examination.

1. The practical examination of all semesters shall be conducted by the University at the end of each semester. The HEI shall conduct the Practical examination of odd semesters as per the schedule announced by the University. **However, the appointment of the External and Internal Examiners shall be done by the Head or Principal of respective HEI to conduct external examination of the odd semester and the same should be communicated to the University before commencement of the practical examination.** The University shall conduct the external practical examination of all even semester by appointing external and internal examiners.
2. The examinations specified above shall be held twice in a year at such places and on such dates as may be prescribed by the University.
3. An applicant to an examination specified above, shall pursue a regular course of study in courses prescribed for the examination concerned for not less than one semester in a particular semester in a College/Institute/University department.
4. Provided that the student shall be eligible to appear for examination if -
   a. He/she complies with the provisions of the Ordinance pertaining to the Examination in general from time to time.
   b. He/she has prosecuted a regular course of study in a university department/college affiliated to the University.
   c. He/she has in the opinion of the Principal shown satisfactory progress in his/her studies.
5. The provisions of Ordinance No. 6 and Ordinance No. 9 shall be *mutatis-mutandis* applicable to every collegiate/non-collegiate student.
6. The fees for each theory examination and practical examination conducted by the university shall be as prescribed by the University, from time to time.

Computation of SGPA and CGPA

Mapping of Marks to Grades

Each course (Theory/Practical) is to be assigned 100 marks, irrespective of the number of credits, and the mapping of marks to grades may be done as per the following table:

Range of Marks	Assigned Grade
91-100	AA/A+
81-90	AB/A
71-80	BB/B+
61-70	BC/B
51-60	CC/C+
46-50	CD/C
40-45	DD/D
< 40	FF/F (Fail due to less marks)
-	FR (Fail due to shortage of attendance and therefore, to repeat the course)

Letter Grades and Grade Points:

Computation of SGPA and CGPA shall be on the basis of Credits prescribed to Courses and Grade Points obtained by the student based on scale as mentioned in table:

Table: Letter Grades and Grade Points

Semester GPA/ Program CGPA Semester/Program	% of Marks	Alpha-Sign / Letter Grade Result	Grade Point
9.00-10.00	91-100	AA/A+	10
8.00-<9.00	81-90	AB/A	9
7.00-<8.00	71-80	BB/B+	8
6.00-<7.00	61-70	BC/B	7
5.50-<6.00	51-60	CC/C+	6
5.00-<5.50	46-50	CD/C	5
4.00-<5.00	40-45	DD/D	4
Below 4.00	Below 40	FF/F (Fail due to less marks)	0
Ab (Absent)	Ab	Ab	0

Computation of SGPA and CGPA

The Semester Grade Point Average (SGPA) is computed from the grades as a measure of the student's performance in a given semester. The SGPA is based on the grades of the current term, while the Cumulative Grade Point Average (CGPA) is based on the grades in all courses taken after joining the programme of study.

Semester Grade Point Average (SGPA) The SGPA is the ratio of the sum of the product of the number of Credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of Credits of all the courses undergone by a student, i.e.

SGPA (Si) = $\sum$(Ci x Gi) / $\sum$Ci

Where Ci is the number of Credits of the ith course and Gi is the grade point scored by the student in the ith course.

Equivalence of the conventional division/class

Equivalence of the conventional division/class to the corresponding C.G.P.A. in final semester shall be in accordance with the table

Table: Equivalence of Class/Division to C.G.P.A.

Sr. No.	C.G.P.A.	Class/Division
1.	7.5 or more than 7.5	First Class with Distinction
2.	6.00 or more but less than or equal to 7.49	First Class
3.	5.50 or more butless than or equal to 5.99	Higher Second Class
4.	5.00 or more but less than or equal to 5.49	Second Class
5.	4.00 or more but less than or equal to 4.99	Pass

Declaration of Results:

1. Declaration of result is based on the Semester Grade Point Average (SGPA) earned towards the end of each semester or the Cumulative Grade Point Average (CGPA) earned at the completion of all eight semesters of the programme and the corresponding overall alpha-sign or letter grades as given in **Table**. If some candidates exit at the completion of the first, second or third year of the Four years Undergraduate Programmes, with Certificate, Diploma or Basic Degree, respectively, then the results of successful candidates at the end of the second, fourth, sixth and eighth semesters shall also be classified on the basis of the CGPA obtained in the two, four, six or eight semesters, respectively.

2. A student obtaining Grade F shall be considered failed and will be required to reappear in the examination. Based on the above recommendations on Letter grades, grade points and SGPA and CGPA, the University shall issue the transcript for each semester and a consolidated transcript indicating the performance in all semesters.

Award of Degree:

1. A student pursuing Three Year / Four Year UG programme shall be awarded an appropriate Honors/ Research degree in Major/ Core Subject on completion of VIII Semester with the minimum of 160 Credits if he secures in that Subject at least 50% of the total Credits for that programme. He shall thus study the specific number of Mandatory Core Courses, Core Electives, Vocational and Skill Courses and Field projects/ Internships connected to Core Subjects in eight semesters, so as to cover at least 50% of the total Credits.

   University Three-Year Degree Completion Conditions: In order to be eligible for graduation from the Three-Year Degree Programme, students are required to earn a 120 credits during their time of study.

Re-entry or Lateral Entry:

i. Students, opting for exits at any level, will have the option to re-enter the programme from where they had left off, in the same or in a different higher education institution within three years of exit and complete the degree programme within the stipulated maximum period of seven years from the date of admission to first year UG.

ii. Re-entry at various levels for lateral entrants in academic programmes shall be based on the earned and valid Credits as-deposited and accumulated in the Academic Bank of Credits (ABC) through Registered Higher Education Institutions (RHEI) and proficiency test records. Lateral entry into the programme of study leading to the UG Diploma/ Three-year UG Degree will be based on the validation of prior learning outcomes achieved and subject to availability based on intake capacity.

iii. An unsuccessful examinee at any of the above examination shall carry college assessment marks (Sessional Marks) of the theory/Practical examination to the successive attempt at the examination. The examinee however can go for his/her college assessment marks in the subject or subjects in which he/she shall be examined for total marks comprising of theory and sessional together at his/her successive attempts.

Progression to Higher Class
Allow To Keep Term (ATKT):
Eligibility for progression to higher classes shall be as per **Table 1**

Table 1: Eligibility for progression to higher classes

S.N.	Admission to	Minimum Required Credits
1	Semester III	20 Credits from all Verticals of Semester I and II
2	Semester V	40 Credits from all Verticals of Semester I to IV

A student who could not complete a semester satisfactorily or did not keep term will be eligible for readmission to the same semester. However, readmission to the semester should be allowed only in regular session of that semester. In such case, the candidate will not be eligible to get admission in higher semester.

General Provision:

1. Record of student's Performance cum Evaluation (containing attendance, concept knowledge, intellectual/ decision making ability, handling skill, sense of responsibility, cooperative/leadership quality, presentation/demonstration) related to *Internships/Apprenticeship, Mini-Project, Field Projects /Studio Activities, Community Engagement and Services, etc.* shall be maintained by the college/institute/university department

2. For allotment of *Internships/Apprenticeship, Mini-Project, Field Projects /Studio Activities, Community Engagement and Services, etc.*, the College/ Institute/University Department shall follow Standard Operating Procedures (SOP) with concerned College/Institute/University Department/Organization/Industry on the basis of Memorandum of Understanding (MoU) /Letter of Intent and Joining letter. Further, for validation, progress records, Evaluation Sheet etc. shall be maintained by the College/Institute/University Department. The Internship policy documents of Govt. of Maharashtra shall be adopted by the University.

3. For award of Credits to Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performing Arts, Academic Activities like paper presentations in conferences, Avishkar, start-ups, Hackathon, Quiz competitions, Article published, Participation in Summer school/ Winter School / Short term course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.); the college/ institute/university department should maintain a record of the student.

4. As per Maharashtra Public Universities Act, 2016, Section 89 Chapter VIII, the results of every examination and evaluation conducted by the University will be declared within thirty days from the last date of examination for that particular course and in any case declare the results latest within forty-five days. The names of the examinees passing the examination as a whole in the minimum prescribed period and obtaining the prescribed number of places in the CGPA shall be arranged in order of merit as provided in the examination in general Ordinance no. 6 provided that the merit list only be published in summer examination.

5. An examinee who has completed the term satisfactorily but fails to present himself/herself for the examination shall be eligible for re-examination externally to the same examination, on payment of fresh fees and other fees as may be prescribed by the university from time to time.

6. A candidate/student who has successfully completed all requisite courses approved by the university and earned minimum prescribed total Credits for which he/she is admitted for the under graduate degree programme and accumulated the required Credits for the program and who has put in the minimum residence time prescribed for each semester of the program shall be eligible to receive the degree.

7. Examinations will be conducted in Offline mode in accordance with Ordinance No.9. However, under special circumstances and in specific cases, those can be conducted in Online mode on the recommendations of Board of Examination & Evaluation and approval by the Academic Council.

8. Generally, and preferably, College/Institute/Department internal assessment examinations and university examinations papers should be set from the Question Bank prepared by the university.

9. Guidelines to Paper Setters are provided in Appendix B, Instructions to BOS in Appendix C, Glossary of Terms in Appendix D and Abbreviations in Appendix E, respectively. Further, at the end of Appendix E, list of references employed to compose this document is furnished.

10. Provisions of Ordinance No18/2001in respect of an Ordinance to provide grace marks for passing in a Head of passing and Improvement of Division (Higher Class) and getting Distinction in the subject and condonation of deficiency of marks in a subject shall apply to the examination under this Direction.

11. **Power to modify and remove difficulties:**
    a) Not with standing anything contained in the foregoing, Hon'ble Vice-Chancellor in consultation with the Dean of the faculty and all the Chairman (BoS) of the Science and Technology (Science Group) shall have the power to issue directions or orders to remove any difficulty,
    b) Nothing in the foregoing may be construed as limiting the power of the University to amend, modify or repeal any or all of the above.

12. Task for BoS for effective implementation of NEP is specified in Appendix 10, Glossary of Terms in Appendix 11 and Abbreviations in Appendix 12, respectively.

NEP Working Committee:

A) University Level: -

There shall be NEP working committee in the University comprising of the following members

1. Vice-Chancellor -Chairman

2. Pro-Vice Chancellor -Member
3. Deans of all faculties -Members
4. Two Experts not below the rank of Professors- Member
   nominated by the Honorable Vice-Chancellor
5. D. R. (Academic) -Member-secretary

B. University Department Level: -

There shall be NEP working committee in each university department comprising of the following members
1. Head of the University Department **-**Chairman
2. One representative of the University Dept Student Council -Member
3. One Teacher of the Department nominated by
   Honorable Vice-Chancellor -Member Secretary

C. College Level

There shall be a NEP working committee in each affiliated college comprising of the following members
1. Principal -Chairman
2. HoDs of Teaching Departments of a College-Members
3. One representative of the College Student Council -Member
4. IQAC Co-Ordinator - Member- Secretary

Powers and Duties of the NEP working committee
1. Committee shall take review of the Implementation of the NEP after completion of every Semester
2. The committee shall report to the University about difficulties faced during the implementation of the NEP.
3. The committee should also consider the grievances of the students regarding the difficulties/disadvantages put to them, if any, during their studies under NEP.
4. For college level and university level, the committee will also be a Grievance Redressal Committee for implementation of NEP.
5. The committee may consider any other matter in the interest of the students as far as the NEP is concerned.

Appendix 11: Glossary of the Terms

- **Academic Bank of Credits (ABC):** ABC is an academic service mechanism as a digital/virtual/online entity established and managed by MoE/UGC to facilitate students to become its academic account holders and paving the way for seamless student mobility between or within degree granting Higher Education Institutions (HEIs) through a formal system of Credit recognition, Credit accumulation, Credit transfers and Credit redemption to promote distributed and flexible teaching learning.

- **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.

- **Assessment:** It is the process of collecting, recording, scoring, describing and interpreting information about learning

- **Affiliated College:** It implies any higher education institution approved by the affiliating university on the basis of the stipulated norms and guidelines by virtue of which it provides for a course/programme of study for obtaining any qualification from a university.

- **Autonomous College:** It means any institution, whether known as such or by any other name accorded with autonomous status by the UGC upon the recommendations of the affiliating university and the State Government concerned, by virtue of which it provides for a course/programme of study with academic and innovation flexibility for obtaining any qualification from a university and which, in accordance with the Rules and Regulations of such university, is recognized as competent to provide for such course/programme of study and present students undergoing such course/programme of study for the examination leading to the award of such qualification.

- **Code:** Each course shall bear a distinguishing code (three letters and three digits) that identifies the discipline from which it is being offered.

- **Credit Point:** It is the product of grade point and number of Credits for a course.

- **Cumulative Grade Point Average (CGPA):** Weighted average of the grade points obtained in all courses registered by the student across semesters.

- **Evaluation:** It is the process of making judgments based on evidences and interpretations gathered through examination and assessment and on the basis of agreed upon criteria.

- **Grade Point:** Numeric weightage attached to each letter grade.

- **Grade Point Average (GPA):** A system of calculating academic achievement based on an average, calculated by multiplying the numerical grade point received in each course by the number of Credits.

- **Graduate Attributes (GAs):** It is a set of individually assessable outcomes that are indicative of the graduate's potential to acquire competencies in that programme.

- **Higher Education Institutions:** The Higher Education Institutions (HEIs) who are empowered to award degrees by themselves or through their affiliating universities m accordance with Section 22 of the UGC Act, 1956.

- **Lateral Entry:** Lateral entry or admission is granted to those students who have exit after award of Certification, Diploma, or a Basic Bachelor's Degree and are eligible for and desirous of re-entering into the second year/ third year/ fourth year, respectively of same Four-year multidisciplinary degree programme at any ABC registered HEI within stipulated/ permissible period of years as decided by Statutory Councils of that HEI. Lateral entry is also open to those students, if he/she has already successfully completed a multidisciplinary Four-year first degree programme and is desirous of and academically capable of pursuing another multidisciplinary Four-year first degree programme an allied subject.

- **Learning Management System** (LMS): It means a system to keep track of delivery of e-Learning Programmes, learner's engagement, assessment, results, reporting and other related details in one centralized location
- **Learning Outcome Based Education (LOBE):** Adherence to student-centric learning approach to measure student's performance based on pre-determined set of outcomes.
- **Letter Grade:** Index of performance resulting from the transformation of actual marks obtained by a student in a course.
- **Proctored Examination:** It means the examination conducted under the supervision of approved person or technology enabled proctoring which ensures the identity of the test taker and the integrity of the test taking environment, either in pen-paper mode or in computer-based testing mode or in full-fledged online mode, as may be permissible.
- **Programme:** Programme /Programme of study means a higher education programme pursued for a degree specified by the Commission under Section 22 (3) of the UGC Act. It also refers to a collection of courses in which a student enrolls and which contributes to meeting the requirements for the awarding of one or more Certificates/ Diplomas/ Degrees.
- **Programme Education Objectives (PEOs):** PEOs are broad statements that describes what graduates are expected to attend within few years of graduation.
- **Programme Learning Outcomes (PLOs):** They represent the knowledge, skills and attitudes a student should attain at the end of the programme.
- **Qualifications:** Qualifications are final 'awards' such as a Certificate, Diploma or Degree.
- Qualifications are awarded by a competent authority such as a college or university in recognition of the attainment by students of the expected learning outcomes on the successful completion of a particular programme of study. Qualifications can also signify the competence to follow an occupational practice.
- **Research Project/ Dissertation:** Project work is considered as a special course involving application of knowledge in solving / analyzing /exploring a real-life situation / difficult problem. The student undertakes research in specific areas of his Major/ Core Subject with an advisory support by a teacher/faculty member.
- **Rubric (Assessment Rubric):** A rubric for assessment, also called a scoring guide, is a tool used to interpret and grade students on any kind of work against criteria and standards.
- **Semester Grade Point Average (SGPA):** Performance of a student in a given semester.