

SHARNBASVA UNIVERSITY REGULATIONS FOR CHOICE BASED CREDIT SYSTEM (CBCS) AND OUTCOME BASED EDUCATION (OBE) FOR THE UNDERGRADUATE PROGRAMS, 2022-23 (B.E./B.TECH./B.ARCH/BCA/BBA etc.)

1. TITLE AND COMMENCEMENT:

These Regulations shall be called “**SHARNBASVA UNIVERSITY REGULATIONS FOR CHOICE BASED CREDIT SYSTEM (CBCS) AND OUTCOME BASED EDUCATION (OBE) FOR UNDERGRADUATE PROGRAMMES, 2022-23**”.

These Regulations shall come into force from the academic year 2022-23 and framed as per the guidelines of NEP 2020.

These regulations are applicable from the academic year 2021-2022 i.e. the first batch under NEP 2020.

2. THE PROGRAMS:

The University shall offer different programs of study representing various Faculties, at Undergraduate, Postgraduate, Research, Integrated, Dual Degree Certificate, diploma and other non-degree programs. The minimum and maximum duration of various programs shall be specified in the guidelines governing the respective programs of study, from time to time.

The following are the Faculties:

- i. Faculty of Engineering & Technology
- ii. Faculty of Architecture
- iii. Faculty of Business Studies
- iv. Faculty of Computer Applications

3. DEFINITIONS OF KEY WORDS:

- i. “**Programme**” means an educational programme leading to award of a degree or diploma or certificate.
- ii. “**Semester**” Duration of each main semester will be of 18 weeks and that of a supplementary semester will be of 8 weeks. The activities in each semester shall include: (a) Registration of courses in the first week of semester, withdrawal from courses within two weeks, dropping the courses towards the end of the semester by the students, under the advice of faculty, (b) Teaching, learning, examination and evaluation.
- iii. “**Academic Year**” is divided into three semesters viz; Two main semesters (Odd and Even Semesters) and One supplementary semester.
- iv. “**Course or Subject**” Usually referred to, as ‘papers’ is a component of a programme. All courses need not carry the same weightage. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures / tutorials / laboratory work / field work / outreach activities /

project work / internship training / viva / seminars / term papers / assignments / presentations / self-study etc. or a combination of some of these including online courses.

- v. **“Credit”** means a unit by which the course is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture)/tutorial or two hours of practical work/field work etc., per week.
- vi. **“Choice Based Credit System” (CBCS)** means Choice Based Credit System which provides choice for the students to select from prescribed courses (core, professional electives, emerging technology courses, open electives, skill based ability enhancement course, non- credit mandatory courses, internship, projects to provide the necessary supports to achieve their goals).
- vii. **“CIE”** and **“SEE”** means respectively the Continuous Internal Evaluation and Semester End Examination of the University.
- viii. **“First Attempt”** referred to a student who has completed all formalities and passed all the heads in SEE in single attempt, shall be considered as first attempt.
- ix. **“Convocation”** means the convocation of the University, where the Degrees, Honorary Degrees, Diplomas, Academic Distinctions and Certificates are awarded as per the requirements of the University.
- x. **“Letter Grade”** means an index of the performance of students in a said course. Grades are denoted by letters O, S, A, B, C, D, E and F.
- xi. **“Grade Point”** means a numerical weight allotted to each letter grade on 10-point scale.
- xii. **“Credit Point”** means the product of grade point and number of credits for a course.
- xiii. **“Semester Grade Point Average” (SGPA):** It is a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
- xiv. **“Cumulative Grade Point Average” (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
- xv. **“Transcript or Grade Card or Certificate”:** Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.
- xvi. **“Major Degree”** means B.E./B.Tech degree awarded by the University after satisfying the relevant degree award conditions.
- xvii. **“Minor Degree”** means a recognition award to a well-performing UG student on earning the specified extra credits after satisfying the relevant degree (Major) award conditions.

- xviii. **“Students”** means a person admitted to and pursuing a specified programme of study in the University.
- xix. **“Teacher”, “Course Instructor”, “Faculty Member”** means respectively a faculty member appointed for imparting instruction and research guidance to students in the University and the Teacher instructing a Course.
- xx. **“Notification”** means the notification of the University.
- xxi. **“HEI”** means Higher Education Institutions.
- xxii. **“Academic Bank of Credits (ABC)”** the Academic Bank of Credits, is a national-level facility which will promote the flexibility of the curriculum frame work and interdisciplinary/multidisciplinary academic mobility of students across the Universities/HEIs in the country with appropriate “credit transfer” mechanism.
- xxiii. **“Multiple Entry and Multiple Exit”** The multiple entries and exit points in the academic programs offered at Universities, HEIs would remove rigid boundaries and create new possibilities for students. There are occasions where students have to force to give up their education mid way for several valid reasons. To facilitate flexible learning within the stipulated period, multiple exit and entry options can be provided to the needy students. The multiple entry option is provided to the students at the beginning of odd semesters (3rd, 5th, 7th & 9th semesters) and multiple exit option is provided at the end of even semesters (2nd, 4th, 6th, 8th and 10th semesters).
- xxiv. **“OBE”**, means **Outcome Based Education**.
- xxv. **“University”** means the Sharnbasva University, Kalaburagi.
- xxvi. **“AICTE”** means the All India Council for Technical Education, New Delhi.
- xxvii. **“MHRD or MOE”** means the Ministry of Human Resource & Development or Ministry of Education, Government of India.
- xxviii. **“Government”, Govt.** means the Government of Karnataka.
- xxix. **“UGC”** means the University Grants Commission, New Delhi.
- xxx. **“AIU”** means the Association of Indian Universities, New Delhi
- xxxi. **“COA”**, means the Council of Architecture, New Delhi.
- xxxii. **“KSHCEC”**, means Karnataka State Higher Education Council, Bengaluru, Karnataka.
- xxxiii. **“CUET”**, means Central University Entrance Test

4. ACADEMIC YEAR:

- i. The academic year is divided into three semesters viz; Two main semesters (Odd and Even Semesters) and One supplementary semester. Duration of each main semester will be of 18 weeks and that of a supplementary semester will be of 8 weeks.
- ii. The activities in each semester shall include: (a) Registration of courses in the first week of semester, withdrawal from courses within two weeks, dropping the courses towards the end of the semester by the students, under the advice of faculty, (b) Teaching, learning, examination and evaluation.

5. SEMESTER SYSTEM AND CHOICE BASED CREDIT SYSTEM:

- i. Semester wise choice based credit system shall be followed in each program of study except in the case of certificate and non-degree programs.
- ii. Every course offered shall have following components associated with the teaching-learning process, viz.; Lecture-L, Tutorial -T, Laboratory –P, Self-study-S, Assignments-A, Field Work-F.
- iii. Credits shall be assigned to each course in a programme of study is as follows:
L- One hour lecture =One credit;
T- One hour Tutorial=One credit;
P- Two hours of laboratory/Seminar = One credit;
S- Four hours of Self study; = One Credit;
A- Four hours of Assignment = One credit;
F- Four hours of Field work = One Credit.
- iv. Each course in a programme of study shall have L-T-P-S-A-F-C, where L, T, P, S, A, F and C means respectively, number of lecture hours per week, number of tutorial hours per week, number of laboratory /seminar hours per week, number of self- study hours per week, number of Assignments hours per week, number of Field Work hours per week and the number of credits assigned to the course.
- v. **A course shall have either or all the components.** Consider the Following example; (1) A course may have only lecture component of 4 hours per week, then it will be represented, as 4:0:0 (2) A course may have 3 hours of lecture and one hour of tutorial, then it will be represented as 3:1:0 (3) If, the course, has only laboratory component of 2 hours duration and one hour of tutorial, then it will be represented, as 0:1:2 (4) For Self-Study/ Assignments/Field Work course of 4 hours duration, then it will be represented as 0:0:0:4.
- vi. The number of credits required to be earned for a four year degree programme shall be calculated at an average of **20 credits** per main semester. For example, a **four** year degree programme (B.Tech/B.E) shall comprise of **eight** main semesters and therefore require **160 credits**, and for degree programme of **five** years (B.Arch.), the number of credits required to be earned shall be **200 credits**. For lateral entry, at 3rd semester B.Tech/B.E programme the number of credits required to be earned shall be **120 credits** (for four year degree programme).
A variation of 5% credits is allowed.
- vii. A full time student shall normally register for a minimum of **18 credits** and maximum of **23 credits** during main semester, whereas in supplementary semester a maximum of **08 credits**.
- viii. Every course in a programme of study normally runs for the full length of a semester.
- ix. Each theory course shall be of
 - a. **1 credit:** The semester duration for 1credit course shall be 20 hours/week.
 - b. **2 credits:** The semester duration for **2 credits** course shall be 30 hours/week.

- c. **3 credits:** The semester duration for **3 credits** course shall be 40 hours/week.
- d. **4 credits:** The semester duration for 4 credits course shall be 50 hours/week.

6. ADMISSION:

Admission to the University shall normally be made at the commencement of each academic year for various programmes of study except research programmes. The date for advertisement, entrance examination, if any, counseling, admission, registration, commencement of classes, and other details for the academic session shall be notified by the Registrar, from time to time.

7. ELIGIBILITY FOR ADMISSION:

The Admission of students to various programmes of studies offered by the University shall fulfill the minimum qualifications laid down by the University, Government, AICTE, UGC and MHRD/MOE for the programme of study concerned, subject to Rules of reservation for candidates belonging to SC, ST, CAT-I and other Backward Classes as laid down by the State Government from time to time.

8. ADMISSION PROCESS:

Admission process for various programmes shall be as follows:

- i. Admission to I year / I semester professional programmes (B.E./B.TECH, etc.) shall be open to the candidates who have passed the second year PUC or XII standard or Equivalent examination recognized by the University
- ii. NRI/PIO/FN seeking admission to the above professional programmes shall apply separately with equivalency/eligibility/migration certificate along with passport/visa/clearance/NOC from concerned bodies to the Admission Committee. Only after the eligibility is ascertained, a NRI/PIO/FN can appear for the entrance test conducted by the University.
- iii. A candidate seeking admission under the Government Quota shall follow the procedures of the Common Entrance Test (CET) as notified by the KEA, Government of Karnataka from time to time, and NATA/JEE ranks for B.Arch.
- iv. A candidate seeking admission under the University Quota (Management Quota) shall appear for entrance test conducted by the University by submitting application form and paying the prescribed entrance test fee. However, the students who have cleared and obtained rank in KEA/CET/JEE/CUET paper I&II/NATA etc., need not write the University Entrance Exam.
- v. Admission Committee shall prepare a merit list for each of programme of study subject to a minimum performance criterion in the entrance test as prescribed by the admission committee from time to time, and the percentage

of marks obtained in the qualifying examinations as prescribed by Government of Karnataka/AICTE/COA/Equivalent.

- vi. Merit list as prepared by Admission Committee shall be submitted to the Vice Chancellor/ Chancellor for approval.
- vii. The Admission Committee shall notify the list of selected candidates after the due approval.
- viii. The selected candidates (as per the notification) shall complete the admission process by submitting the requisite forms along with supporting documents, paying the prescribed fees and full filling any other requirements mentioned in the notification.
- ix. Candidates who have passed a qualifying examination not conducted by Government of Karnataka/ by this University shall submit the eligibility and migration certificate in original for admission to a programme of study.
- x. Candidate shall be required to submit medical certificate (if demanded by University) and character certificate from the recognized Doctor and Head of the institution last attended respectively.
- xi. Admission to IInd year/ III Sem B.E./B.Tech. under lateral entry scheme shall be open to the candidates who have passed the three year diploma from the Karnataka state and secured not less than 45% of marks in aggregate (considering the marks of all six semesters). In case of SC/ST and OBC students from Karnataka state the eligibility shall be 40%. However candidates who have passed diploma from other than the Karnataka state shall provide the equivalence/ eligibility certificate from the competent authority. Also, the students who have passed B.Sc. Degree from the recognized university or equivalent qualification as recognized by university and secured not less than 45% marks in aggregate (considering the marks of all six semesters), in case of SC/ST and OBC students from Karnataka state the eligibility shall be 40%. However candidates who have passed B.Sc. from other than the Karnataka state shall provide the equivalence/ eligibility certificate from the competent authority.

8 A. Mandatory Induction Programme:

All the new entrants to the University shall attend Mandatory Induction Programme as notified by the University from time to time.

9. ATTENDANCE REQUIREMENT:

- i. Each semester is considered as one unit and the student is required to have a minimum attendance of 85% in each course with a provision of condonation of 10% of attendance by the Vice- Chancellor on the specific recommendation of the Dean of the Faculty/University, indicating reasonable cause such as medical ground, participation in University level sports, cultural programs, seminars, workshops, paper presentation, etc.

- ii. The calculation of the attendance shall be based on the reopening date notified by the University by its calendar of events from time to time. However, for first semester (III semester for later entry) students the same will be reckoned from the last date of admission to the course as per KEA, Govt. of Karnataka/the University/ AICTE.
- iii. The shortage of attendance shall be informed to the students/Parents by the Dean/Chairman/Coordinator/Teacher concerned or as and when student/parent request for attendance status periodically to be cautious and to make up the shortage. In case, a student's class attendance in a course is less than as stipulated by the University, the student is said to have dropped that course and the student has to re-register for the dropped course when the course is offered again by the Department if it is a mandatory core course. The student may choose the same or any alternate core/elective in case the dropped course is soft core/elective course.
- iv. Provided that mere omission by the University to inform the student about the shortage of attendance shall not entitle him/her to appear for the examination.

10. ASSESSMENT AND EVALUATION:

The assessment and evaluation of each student shall comprise of two components viz; Continuous Internal Evaluation (CIE) and Semester End Examination (SEE). Equal weightage shall be given for CIE and SEE.

10.1. Continuous Internal Evaluation:

The CIE shall be conducted by the course teacher throughout the semester. The suggested components of CIE for Theory and Laboratory/ Project course are as depicted below in Table-I and Table-II respectively.

Table-I: Suggested components of CIE for Theory

Sl. No	Components	Marks
1	Internal Test-I*	15
2	Internal Test-II*	15
3	Internal Test-III*	15
4	Session wise Assignment	25
	Seminar & Library Work	05

	Attendance	05	95% to 100%	85% to 94%
			05	04

*Average of Best Two performances of the Internal Tests shall be considered for 15 Marks.

Table-II: Suggested components of CIE for Laboratory

Sl. No	Components	Marks
1	Conduction of experiments / Design and fabrication of the system.	25
2	Evaluation of Lab	15
3	Mock Evaluation/ Presentation	10

Table III: Suggested components of CIE for Semester Wise Project

There is no SEE examination

Sl. No	Components	Marks
1	Design and fabrication of the project.	50
2	Evaluation of project report by the department	30
3	Mock evaluation/ Presentation	20

The suggested components of CIE for semester wise, Internship and Final Project course are as depicted below in Table-IV, Table-V and Table-VI respectively.

Table-IV: Suggested components of CIE for Seminar

Sl. No	Components	Marks
1	Identification of Seminar topic from referred Journals in relevant domain suggested by the guide	20

2	Report on Seminar and Evaluation	40
3	Presentation	40

Table-V: Suggested components of CIE for Internship

Sl. No	Components	Marks
1	Midterm Presentation on Internship	25
2	Report on Internship	25

Table-VI: Suggested components of CIE for Final Project

Sl. No	Components	Marks
1	Project Phase-I Literature Survey / Visit to industries / R & D to finalize the project topic	50
2	Project Phase-II	30
	a) Design, Testing and Results Analysis	10
	b) Presentation	10
	c) Thesis Writing	10

10.1.1 Provision to Drop the Course:

In case a student secures less percentage of marks in CIE as prescribed in the course, the student is said to have **dropped** that course, and such a student is not allowed to write SEE in that course.

A student has to re-register for the **dropped** course when the course is offered again by the department if it is a mandatory core course. The student may choose the same or an alternate core/elective, in case the dropped course is soft core/elective course.

A student who is said to have dropped the Internship/project work has to re-register for the same subsequently within the stipulated period.

The details of any dropped course shall not appear in the Grade card.

10.1.2 Provision to withdraw course:

A student can withdraw any course within 10 days from the date of commencement of semester. Whenever a student withdraws a course, he/she has to register for the same course in case it is mandatory core course, the same course or an alternate course if it is soft core/open elective.

10.1.3 Provision for Appeal:

If a student is not satisfied with the evaluation of CIE, he/she can approach the Grievance Reddressal Cell with the written submission together with all the facts, the assignments, test papers etc which were evaluated. This shall be done before the commencement of SEE. The Grievance Reddressal Cell shall look into the details and if necessary take corrective measures.

10.2. Semester End Examination (SEE):

- i. A student, who has complied with the minimum specified attendance in a programme and secured greater than or equal to 45% in CIE, shall register for SEE by paying the prescribed fees. The registration process may be online/ offline as notified from time to time by the Registrar Evaluation. The registration of a student shall be liable to be cancelled by the office of the Registrar Evaluation, where disciplinary issues are raised by the concerned Dean of Faculty.
- ii. After the last date of registration for SEE, the list of students along with their registered courses shall be released by the office of Registrar Evaluation. A student shall verify the accuracy of his/her particulars in the list and discrepancies, if any, shall be reported to office of Registrar Evaluation within Three days from the date of release.
- iii. The office of the Registrar Evaluation shall issue the Admit cards to eligible students based on the SEE list. The Admit card of a student shall be valid only for the SEE for which it is issued. The Admit card of a student shall include (i) recent photograph of the student and (ii) registered courses for SEE with subject codes.
- iv. With the specific approval of the Vice-Chancellor/the Chancellor, under extra ordinary circumstances, a student whose name does not find place in the student list may be permitted to appear for SEE. The result of such a student may be announced after due verification.
- v. The Registrar Evaluation shall appoint Chief Superintendent and Deputy Chief Superintendent for the conduct of SEE as per the Time Table notified.

Theory Examination: The SEE shall be of two or three hours duration or as mentioned in the scheme. The evaluation for this component shall be 50% of the maximum marks.

Laboratory Examination: The SEE shall be of two or three hours duration or as mentioned in the scheme and shall comprise of Conduction of experiments / Design and fabrication of the system/ Project. The evaluation for this component shall be 50% of the maximum marks.

The SEE for Laboratory shall be held in batches over several days. There shall be one Internal and one External Examiner and the evaluation shall be based on experimental procedure, write up, coding, execution, Demonstration, Result analysis / Graphs if any and Viva-voce.

Project Examination: The SEE for the Project shall be evaluated by two examiners jointly and the evaluation shall be based on various components such as, Writing of Abstract, Project report, Oral Presentation, Demonstration and Viva-voce.

Note: The distribution of marks for various components shall be made available to the Examiners by the Registrar Evaluation from time to time.

Question paper pattern:

The question paper for theory courses consist of Five modules. In each module, there are two full questions. The Students are required to answer five full questions selecting one from each module.

Note: Some courses which include design, drawing and mandatory courses shall have their own pattern.

Valuation of Answer Scripts:

The Registrar Evaluation shall appoint Chief Coordinator and Deputy Chief Coordinator for the evaluation of SEE answer scripts.

The Registrar Evaluation shall notify the guidelines for the evaluation of various subjects.

The answer books of SEE may be coded before issuing for evaluation by the office of the Registrar Evaluation.

11. ELIGIBILITY FOR PASSING:

11.1. The CIE and SEE have equal weightage and the student performance is judged by taking into accounts the results of CIE and SEE individually and also combined. The passing standards are as depicted in the Table-VI.

Table-VI. Eligibility for passing.

	Eligibility for passing.
CIE	$\geq 45\%$ of Maximum marks
SEE	$\geq 35\%$ of Maximum marks
CIE + SEE	$\geq 40\%$ of Maximum marks taken together

11.2. Rejection of Results

The student who passes a course of a semester shall not be allowed to appear for the same again, unless he/she opts for rejection of results as per the following:

- i. A student may, at his/her desire, reject his/her total performance of SEE (including CIE marks) or he/she may reject the performance of SEE only. The rejection is permitted only once during the entire course of study.
- ii. The student who desires to reject the performance as per (i) shall reject performance in all the courses of that semester, irrespective of whether the student has passed or failed in any course. However, the rejection of performance of 4th year project work shall not be permitted.
- iii. A student who desires to reject the total performance of the semester (including CIE), has to take readmission for the relevant semester. Application for such readmission shall be sent to the Registrar through the Dean of faculty within 30 days from the date of announcement of the results. Late submission of application shall not be accepted for any reasons. Readmission to First semester in such cases shall not be considered as Fresh admission.
- iv. The student, who desires to reject only the results of SEE of a semester and does not desire readmission, shall be permitted to re-appear for examinations of all the courses of the semester in the subsequent examinations. However, the CIE marks obtained by the student in the rejected semester shall be retained. Application for such readmission shall be sent to the Registrar through the Dean of faculty within 30 days from the date of announcement of the results as per the admission notification issued by the University from time to time. Late submission of application shall not be accepted for any reasons.

11.3. Grace Marks: Grace Marks shall be awarded to the students in SEE for passing theory/ Laboratory and / or passing semester as per the following attributes:

- i. Grace marks shall be awarded to theory / laboratory to a maximum of 2% of total SEE marks, if and only if the student clears that theory / laboratory with minimum prescribed marks.
- ii. If a student failed in any one theory / laboratory / head, he/she is eligible for 3 grace marks, if and only if he/she passes the semester.

A student is granted either i or ii of the above, not both. The granted marks shall be documented in the records but not disclosed in the grade card.

11.4. Make Up Examination:

The Make Up examination shall be available to students who may have missed to attend the SEE of one or more courses in a semester for valid reasons and given the 'I' grade. The students having 'X' grade shall also be eligible to take up Make Up examination. The Make Up examinations shall be held as per dates notified in the Academic Calendar by notification from time to time. The standard of the Make Up examination shall be same as that of regular SEE for the courses.

12. ELIGIBILITY REQUIREMENTS FOR PROMOTION TO NEXT ACADEMIC YEAR:

- i. The candidate is allowed to move from **ODD to EVEN** or **EVEN to ODD** semester provided he/she has to satisfy the attendance and CIE requirements.
Carry Over all Backlog Courses: For B.Tech./B.E./B.Arch./BBA/BCA, etc Programmes:
- ii. From 1st semester till 5th semester, 7th semester and 9th semester for 3 years, 4 years and 5 year UG programmes respectively, the student/s who obtains required attendance, CIE and appears for SEE but fails (F Grade) to pass a course/s is allowed to move forward to the next semester (odd/even) irrespective of number of F Grades, including courses absent for SEE. However, for the award of a degree, the student must pass all courses as per applicable schemes and regulations and earn the prescribed credits. This is subject to a permitted maximum duration of 6 years, 8 years and 10 years for UG programs of 3 years, 4 years and 5 years respectively.
- iii. **Successive Failures:**
 - a) If a student fails to pass a Course even after four attempts, that course is deemed to be exempted for him/her. Then, the student may choose a course /courses of his / her choice with the matching number of credits from the pool of courses suggested by the concerned Board of Studies. The courses so selected should not have been studied by the student or to be studied in higher semester/s. The faculty advisor shall guide/advise the student in this regard. The department has to make arrangements for the registration and conduction of CIE for the selected course.
 - b) This provision is given only for two courses (one at a time) during the entire maximum duration of a programme.
- iv. The mandatory non credit courses Additional mathematics I & II prescribed at 3rd & 4th semester respectively to lateral entry admitted student to 3rd semester of B.Tech programs, shall attend the classes during respective semester to complete CIE and attendance requirements. In case any student fails to satisfy the course requirements he / she shall be deemed to have secure F grade. In such case, the student has to fulfill the requirements during subsequent semester/s.
- v. **Completion of Additional Mathematics I and II shall be mandatory for the Award of B.E./B.Tech. Degree.**
- vi. Lateral entry students with **B.Sc. degree** shall clear non credit courses such as Engineering Graphics, Elements of Civil Engineering etc. or as decided by BOS from time to time of the first year engineering programme for the award of degree.
- vii. **Completion of mandatory non credit courses (as mentioned in v and vi.) shall be mandatory for the award of B.Tech. degree.**

13. MAXIMUM DURATION FOR UG PROGRAM COMPLETION:

The student shall complete the UG program of **Three/Four/Five** years within a maximum period of **Six/Eight/Ten** Academic years respectively from the date of

first admission, failing which he/she shall be declared as **Not Fit for Professional Education.**

14. MULTIPLE ENTRY AND EXIT OPTION

14.1. ENTRY 1: (at 1st semester) A program of study leading to entry into 1st year of the bachelor's degree is open to those who have met the entrance requirements, including the secondary level of education specified in the programme admission regulations at clause no.8(i-x).

14.2. EXIT 1: The exit option is given to the students at the end of 1st year along with a **certificate** indicating the skills attained by the student. The student has to complete all academic requirements of 1st year and earn requisite credits of 1st and 2nd semester and also recommended by Academic Council and approved by Board of Management of the university.

14.3. ENTRY 2: (at 3rd semester). All the 1st year students of UG programme eligible for vertical progression to move from one academic year to next academic year as per clause 12 ii. (a), and lateral entry students selected as per clause 8(xi) is admitted to 2nd year of Bachelor's Degree.

This option is also open to those who have left after completion of 1st year of the program and wants to join back for the continuation of their study, **subject to the condition of maximum duration of 8 years from the date of 1st admission.**

This option is also open to the students of multidisciplinary programme to 3rd semester level who have completed all academic requirements of 1st year and earn requisite credits of 1st and 2nd semester and also recommended by admission committee of the University. Such of the students have to undergo a mandatory bridge courses during summer semester.

14.4. EXIT 2: The exit 2 option is given to the student at the end of the 2nd year (after the 4th semester) along with **DIPLOMA** Certificate mentioning the area of specialization. The student has to complete all the academic requirements to complete the two years B.Tech. and earned requisite credits of 1st to 4th semester and recommended by the Academic Council and approved by the Board of Management of the University.

14.5 ENTRY 3: (at 5th semester). All the 2nd year students of Under Graduate Programme eligible for vertical progression to move from one academic year to next academic year as per clause 12(ii), is admitted to 3rd year (5th semester) Bachelors Degree.

This option is open to those who have left after completion of the 2nd year of the programme and want to join back for the continuation of their study, subject to the condition of a maximum duration of 8 years(1st year admitted) /6years(lateral Entry), from the date of 1st admission.

14.6 EXIT 3: (after 6th semester) On successful completion of three years, the relevant degree shall be awarded, the student has to complete all academic requirements to complete the three years of the undergraduate program and earned requisite credits of 1st to 6th semester and recommendation of Academic Council and approved by Board of Management of University.

14.7. ENTRY 4: (at 7th semester) All the 3rd year students of Under Graduate Programme eligible for vertical progression to move from one academic year to next academic year as per clause 12(ii), is admitted to 4th year (7th semester) Bachelors Degree.

This option is open to those who have left after completion of the 3rd year of the programme and want to join back for the continuation of their study subject to the condition of a maximum duration of 8 years(1st year admitted) /6years(lateral Entry) from the date of 1st admission.

14.8 EXIT 4: (after 8th semester) On successful completion of four years, the relevant degree with research shall be awarded, the student has to complete all academic requirements to complete the four years of the undergraduate program and earned requisite credits of 1st to 8th semester (for lateral entry 3rd to 8th semester).

Further student should have completed bridge courses, if any, as applicable is compulsory and also mandatory earning of activity points prescribed by AICTE and recommendation of Academic Council and approved by Board of Management of University.

The above guidelines are applicable for B.Arch., with additional **Entry** and **Exit** points.

15. TYPES OF COURSES:

The curriculum shall be designed based on the concept of **CBCS, OBE and Multidisciplinary NEP 2020**.

The **CBCS** provides choice for the students, to select from the prescribed courses of the programme of study as well from Multidisciplinary programs.

Different Courses to be offered in a programme of study shall be categorized and with the breakup of credits as given in table VII.

Table VII

Sl. No.	Category	Breakup of Credits	
		Percentage	Credits
1.	Ability Enhancement Courses (AEC-OE)	01-03%	02
2.	Humanities, Social Sciences and management Courses (HSMC)	06-10%	08
3.	Applied science courses- (ASC)	12-15%	22
4.	Engineering Science Courses- Open Elective	08-12%	12

	(ESC)/ ESC-OE		
5.	Emerging Technology Courses- Open Elective (ETC-OE) OR Programming Language Course - Open Elective- PLC-OE	3-6%	06
6.	Programme core courses (Specialization wise) (PCC)	30-35%	45
7.	Professional Elective Courses (Specialization Wise) (PEC)	08-14%	15
8.	Open Elective Courses(Cross Discipline Courses) (OEC) and Online Courses (OC)	15-25%	25
09.	Research Project Work, Seminar and Research Internship in Industry or elsewhere	15-20%	25
10.	Mandatory Audit Courses	0	0
Total		-	160

Note 1: The mode of teaching learning for all categories of courses mentioned in the table VII include:

- a. **Offline**
- b. **Online**
- c. **Blended mode (both online & offline).**

Note 2: Minor variation is allowed as per need of the specialization.

- **Ability Enhancement Courses (AEC-OE):** These courses are designed to help students to enhance their skills in communication, language, and personality development etc. they also promote a deeper understanding of courses like social science, ethics, culture, human behavior, human rights, and the law. Ability enhancement courses are based upon the content that leads to knowledge enhancement. These courses shall be in the range of 1-3% of the total minimum credits for a programme of study.
- **Humanities, Social Sciences and management Courses (HSMC):**
 - a. **Humanities and Social Sciences (HSS):** These courses enable the students to acquire the required skills and knowledge essential to pursue a given programme of study. These courses include communication, economics, environment, professional ethics, constitution of India etc;. These courses shall be in the range of 6-10% of the total minimum credits for a programme of study.

b. **Universal Human Values Courses (UHV):** The courses which teach, a holistic perspective based on self-exploration about themselves (human being), family, society, and nature, understanding (or developing clarity) of the harmony in the human being, family, society and nature. These are mandatory for all disciplines. These courses shall be in the range of 01-02% of the total minimum credits for a programme of study.

➤ **Applied science courses- (ASC):**

BS courses include physics, chemistry, mathematics, statistics and they are mandatory for all the engineering programme of study. These courses shall be in the range of 08-15% of the total minimum credits for a programme of study.

➤ **Engineering Science Courses- Open Elective (ESC)/ ESC-OE**

ES Courses includes elements of: civil, mechanical, electrical, electronic, and computer programming skills, etc; and they are mandatory for all the engineering programme of study. These courses shall be in the range of 08-12% of the total minimum credits for a programme of study.

➤ **Emerging Technology Courses- Open Elective (ETC-OE)**

OR

Programming Language Course - Open Elective- PLC-OE:

These courses are designed to help students to keep abreast of recent Technology/ Innovations

➤ **Programme core courses (Specialization wise) (PCC):** The Programme Core Courses are branch specific core courses which may be very specific and supportive to the programme of study. These courses shall be in the range of 30-40% of the total minimum credits for a programme of study.

➤ **Professional Elective Courses (Specialization Wise) (PEC):** Professional Elective course is a course, which can be chosen from a pool of courses, and which may be very specific or specialized or advanced or supportive to the programme of study or which provides an extended scope or which enables an exposure to some other programme of study or nurtures the students proficiency. These courses shall be in the range of 08-14% of the total minimum credits for a programme of study.

➤ **Open Elective Courses(Cross Discipline Courses) (OEC) and Online Courses (OC)**

a. **Open Elective Course (OEC):** An open elective course chosen generally from the other programme of study, with an intention to seek exposure is called an **Open Elective Course**. These courses shall be designed by other Faculties of the University, such as, Social Sciences, Science and Technology, Architecture, Master of Computer Applications, Languages, Business Studies, other departments of Engineering and

Technology, etc. These courses shall be in the range of 10-15% of the total minimum credits for a programme of study.

b. Self-Study Course (SSC): A self-study course designed to acquire an advanced knowledge to support a major project work, and a student studies such a course on his own with an advisory support by a teacher is called a **self-study course**.

These courses shall be in the range of 01-02% of the total minimum credits for a programme of study.

c. Online Courses (OC): These include SWAYAM, MOOCS, NPTEL, Online courses designed by University, etc. These courses shall be up to 40% of the total minimum credits for a programme of study. **Interested students can select courses up to 40% credits in online mode(as per the credit transfer guidelines of AICTE).**

- **Research Project Work, Seminar and Research Internship in Industry or elsewhere** These are intended to enhance the student's practical knowledge and exposure to research and industry. The credits for this category shall not exceed 10-15% of the total minimum credits for a programme. Major project work shall normally be carried out in regular semesters.

Research Internship:

The student of UG programme shall undergo Internship of 12 weeks either in the 7th semester or 8th semester.

- Each student shall be attached with an internal faculty guide.
- After 6 weeks of Internship, the student is required to make Presentation on the progress of Internship in the concerned department.
- After completion of Internship, the student shall submit the report to the concerned department with the approval of both Internal and External guides (From the Industry/Organization where the student has carried out Internship)
- There shall be 50 CIE marks comprising of Mid-term presentation and report submission after completion of Internship.
- Viva-voce on Internship shall be conducted at the concerned department and date of Viva-Voce shall be fixed in consultation with the external examiner in blended mode (face to face/Online).
- Viva-Voce shall be conducted by both Internal and External examiners and jointly evaluates the Internship report for 50 marks.
- The internal guide has to visit physically/online at least once during the course of Internship.

Research Project Work:

Final Project work shall be carried out in fourth academic year in a group of maximum of four students.

Each Group shall be attached a Guide (Faculty Member of the Department),

- The group of students in consultation with the Guide shall carry out literature survey/visit industry/ R&D/ Reputed Organizations (public/private) to finalize the topic of the project.
- Every group of Students shall submit a report on project survey and present a seminar before the review committee comprising of Chairman of the program, one senior faculty and the Guide.
- Then the group of students shall be permitted to register for Final Project only after successful presentation of seminar before the review committee.
- Before submitting the final Thesis/Report, the work shall be evaluated by a review committee.
- It is mandatory to Publish/Present a paper on the project in the reputed International / National Journals / Conferences at National level.
- Viva-Voce exam shall be conducted only if the student has completed all the prescribed courses of the previous semesters.

Technical Seminars:

Each student shall be attached with an internal faculty guide.

The student shall choose seminar topic on the emerging area from referred Journals only.

The student shall present his/her seminar before a committee comprising of Chairman of the Program, One senior faculty and the Guide.

- **Mandatory Audit Courses (Non- Credit):** A student may be permitted to take any number of audit courses over and above the graduation requirements for learning a subject.

Certain programmes of study may have additional requirements such as apprenticeship, residency, etc. .

16. GRADING PATTERN:

- i. The **SHARNBASVA UNIVERSITY** adopts absolute grading system wherein the marks are converted to grades and every *semester* results shall be given with ***Semester Grade Point Average (SGPA)*** and ***Cumulative Grade Point Average (CGPA)***.
- ii. The Grading pattern shall have the letter grade points, as per the following table:

Table – VII . Grades and Grade Points

Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Poor	Fail
Letter Grade	O	S	A	B	C	D	E	F
Grade Points	10	9	8	7	6	5	4	00

- iii. A student shall be awarded Grade F if he/she either fails in the course or is absent for the SEE of that course and the student shall be required to reappear for the semester end examination. If the course is laboratory/practical component, the student shall re-appear both CIE and SEE. Absenting in any one or both of them shall result in award of F Grade.

Table -VIII. Grade Point Scale

Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Pass	Fail
Letter Grade	O	S	A	B	C	D	E	F
Grade Points	10	9	8	7	6	5	4	00
Score (marks) Range (%)	≥ 90	< 90 ≥ 80	< 80 ≥ 70	< 70 ≥ 60	< 60 ≥ 55	< 55 ≥ 50	< 50 ≥ 40	< 40

iv. **W , X and I Grades:**

W Grade shall be awarded to a student who has withdrawn from a course. Further, this grade shall be recorded in the grade card. If the course is audit course, then there shall be no mention of course in the grade card.

X Grade shall be awarded to a student whose attendance is satisfactory and CIE rating ($\geq 60\%$) in a course, but SEE performance observed to be Poor/fail, for such course X grade shall be awarded. The student shall be provided with an opportunity in the Make-Up examination; however the grades ('B' to 'O') will be reduced to the next lower grade and the other grades remains same.

I Grade shall be awarded temporarily to a student who is unable to appear for **SEE** for one or more courses, with the permission of the Vice-Chancellor in response to a written appeal by the student, due to valid reasons such as medical emergency, calamity in the family or any other valid reason. For such a student, the I grade shall be converted in to one of the other letter grades as in the table after the completion of scheduled make up SEE. If the student does not appear to the make-up SEE, the I grade shall be converted to an F grade.

- v. **AP and AF Grades:** A student shall be awarded either an **Audit Pass (AP)** or **Audit Fail (AF)** grade for an audit course. The Audit Pass (*AP*) grade shall be awarded if the student satisfies the attendance and performance criteria specified for the course by the concerned Faculty. Otherwise, an *AF* grade shall be awarded.

- vi. **COMPUTATION OF SGPA and CGPA:**

COMPUTATION OF SGPA:

Illustration of Computation of SGPA and Format for Transcripts

Computation of SGPA

Illustration No. 1

Course	Credit (C)	Letter Grade	Grade point (G)	Credit point (C X G)
Course 1	4	A	8	4X8=32
Course 2	4	C	6	4X6=24
Course 3	4	B	7	4X7=28
Course 4	3	O	10	3X10=30
Course 5	3	D	5	3X5=15
Course 6	1	C	6	1X6=06
Course 7	1	S	9	1X9=09
Course 8	1	C	6	1X6=06
	21			150

Thus, $SGPA = 150/21 = 7.14$

Illustration No. 2

Course	Credit (C)	Letter Grade	Grade point (G)	Credit point (C X G)
Course 1	4	A	8	4X8=32
Course 2	4	C	6	4X6=24
Course 3	4	B	7	4X7=28
Course 4	3	O	10	3X10=30
Course 5	3	F	0	3X0=0
Course 6	1	C	6	1X6=06
Course 7	1	S	9	1X9=09
Course 8	1	C	6	1X6=06
	21			135

Thus. $SGPA=135/21= 6.43$

Illustration No. 2(A)

Course	Credit (C)	Letter Grade	Grade point (G)	Credit point (C X G)
Course 5	3	B	7	3X7=21
	21			(First Attempt=135+Subsequent Attempt =21)=156

Thus. $SGPA=156/21= 7.43$

Illustration No. 3

Course	Credit (C)	Letter Grade	Grade point (G)	Credit point (C X G)
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Course 1	4	A	8	4X8=32
Course 2	4	C	6	4X6=24
Course 3	4	B	7	4X7=28
Course 4	3	O	10	3X10=30
Course 5	3	S	9	3X9=27
Course 6	1	C	6	1X6=06
Course 7	1	S	9	1X9=09
Course 8	1	C	6	1X6=06
	21			162

Thus. $SGPA=162/21= 7.71$

$CGPA=(21X7.14+21X7.43)/42 =7.28$

CGPA after Final Semester

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
Credit :21 SGPA: 7	Credit : 21 SGPA : 8.5	Credit :21 SGPA: 9.2	Credit : 21 SGPA:6.86	Credit: 21 SGPA:8.18	Credit : 21 SGPA:7.73	Credit: 17 SGPA:8.68	Credit: 17 SGPA:9.4

Thus,

$CGPA = (21X7+21X8.5+21X9.2+21X6.86+21X8.18+21X7.73+17X8.68+17X9.4)/160=8.15$

17. CONVERSION OF GRADES INTO PERCENTAGE:

Conversion of GPA into Percentage is given below

$$\text{Percentage of Marks} = (\text{CGPA Earned}) * 10$$

There is no formula for the conversion of CGPA into the percentage of marks. However, the above formula for conversion of the CGPA on a 10-point scale into the percentage of marks (M) may be used.

Illustration: if CGPA=7.8 then, percentage of marks (M) secured = $(7.8) * 10 = 78\%$.

18. CLASS / DIVISION DECLARATION:

After successful completion of the programme and CGPA conversion as above (16) the graduating student is declared to have passed in (as per the below table).

Equivalent Percentage	Class
$\geq 70\%$	First Class with Distinction
$60\% \leq \% < 70\%$	First Class
$50\% \leq \% < 60\%$	Second Class
$40\% \leq \% < 50\%$	Pass Class
$< 40\%$	Fail

19. AWARD OF UG DEGREE:

(a). Students shall be declared to have completed the Program of Bachelor's Degree and is eligible for the award of degree provided the students have undergone the stipulated Course work of all the semesters under the Scheme of Teaching and Examinations and have earned the prescribed number of credits within the permitted maximum duration.

(b) For the award of degree, completion of bridge courses, if any, as applicable is compulsory.

(c) Mandatory Earning of Activity Points: Applicable only for AICTE Programmes – (Refer : Chapter 6 – AICTE Activity Points Programme).

Sl. No,	Students Category	Activity Points Prescribed by AICTE
1	Regular students admitted to the 4 years Degree program	100
2	Students entering 4 years Degree programs through lateral entry	75
3	Students transferred from other Universities to the fifth semester	50

20. Bachelor's (Honors) degree

A student shall be declared to have completed the Program of Bachelor's degree and shall be eligible to get Bachelor's degree with Honors, provided.

1. The student has undergone the stipulated Course work of all the semesters under the same Scheme of Teaching and Examinations and has earned the prescribed number of credits, i.e. **160 credits** for I semester admitted students and **120 credits** for III semester admitted students as per clause 19 above.
2. Has earned additional 18 or more credits through University-approved online/offline Courses.
3. Satisfied the Regulations Governing the Award of Honors at B.E./B.Tech. Degree Programs – Guidelines – Annexure-II.

21. Bachelor's with Minor degree

A student shall be declared to have completed the Program of Bachelor's Degree and shall be eligible to get Bachelor's Degree with minors, provided.

1. The student has undergone the stipulated Course work of all the semesters under the same Scheme of Teaching and Examinations and has earned the prescribed number of credits, i.e. **160 credits** for I semester admitted students and **120 credits** for B.E./B.Tech for III semester admitted students as per clause 19.
2. Has earned additional 18 or more credits through a University- approved courses list submitted by the board of studies. For Guidelines refer to Annexure-III.

22. Award of B.Tech/B.E Degree for an Extraordinary Student:

The University through faculties can offer a fast-track degree for an extraordinary student. The same is done by offering courses of his / her choice to fulfill the requirement of the program in three and half years. However, the degree shall be awarded on completion of 04 years. However, the course completion letter may be

issued by University immediately after completion of the program, notwithstanding the minimum duration.

Aspirant students have to register with University through the Dean of the faculty at the 5th-semester level, with the prescribed registration fee as fixed by the University from time to time. A special provision to registering for more credits other than regular semester credits shall be made only after registration.

The extraordinary student is one with a CGPA ≥ 9 in 2nd, 3rd, and 4th semesters and maintains the same in all the semesters. Otherwise, his/her registration will stand canceled automatically.

23. AWARD OF PRIZES, MEDALS AND RANKS:

All these awards will be in two broad groups:

1. All Co-Education Programs and
 2. All Exclusively for Women Programme.
- i. For the award of *Prizes* and *Medals*, the conditions stipulated by the Donor shall be considered subject to the provisions of the statutes framed by the University for such Awards.
 - ii. For award of rank in a specialization of B.Tech., the CGPA secured by the student from III to VIII semester is considered, for B.Arch. the CGPA of III to X semester shall be considered, for BCA and BBA all semesters CGPA shall be considered.
 - iii. A student shall eligible for a rank at the time of award of the degree of B.Tech/BCA/BBA etc, provided the student:
 - a. Has passed all semester in all courses in first attempt only in case of candidate admitted to I year.
 - b. Has passed III to last semester in all courses in first attempt only in case of candidate admitted under lateral entry scheme.
 - c. Has completed all the prescribed Audit/mandatory courses.
 - d. Is not repeated in any semester because of rejection of result of a semester/shortage of attendance etc;.
 - e. Has completed all the semester without any break/discontinuity.
 - f. Has completed all the semester (I to last semester or III to last semester for lateral entry students) in the University
 - g. Has not been transferred from any autonomous institution or from any other University to the Sharnbasva University.
 - iv. Total number of ranks awarded shall be 10% of the total number of students appeared in final semester subject to the maximum of 10 ranks in a specialization.
 - v. For award the rank in specialization, a minimum of 10 students should have appeared in the final semester examination.

Illustration:

- a. If 1228 students appeared for the VIII semester in Electronics and Communication Engineering Programme, the number of ranks to be awarded for Electronics and Communication Engineering shall be 10.

- b. If 90 students appeared for the VIII semester in Biomedical Engineering, the number of ranks to be awarded for Biomedical Engineering will be 9.
- c. If 10 or less students appeared for the final semester of any degree, the number of ranks shall be awarded is one.
- vi. In case of fraction number of ranks, it is rounded to higher integer when the first decimal place value is greater than or equal to 5.
- vii. Ranks are awarded based on the merit of the students as determined CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the number of times student has obtained higher SGPA. If it is not resolved even at this stage, the number of times student has obtained higher grades like S, A, B, etc., shall be taken into account to decide the order of the rank.

24. APPLICABILITY AND POWER TO MODIFY:

- i. The regulations governing the degree of Bachelor's Degree of SUK shall be binding on all concerned.
- ii. Notwithstanding anything contained in the foregoing the university shall have the power to issue directions /orders to address any difficulty.
- iii. 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.

SHARNBASVA UNIVERSITY REGULATIONS GOVERNING THE AWARD OF “HONOURS” AT B.E./B.TECH. DEGREE PROGRAMMES 2021-2022

These regulations governing the award of ‘Honours’ at B.E./B.Tech., degree programmes have been framed in pursuance in the provisions for this qualification in AICTE model curriculum for undergraduate programmes in Engineering and Technology, Vol. I and II, January 2018 and in the UGC Notification on the specification of Degrees, March 2014. These provisions aim at facilitating the award of higher qualifications and recognition to well-performing undergraduate students of the University on their acquiring additional credits in the same time period for the programmes. In adopting these provisions the University has taken steps to ensure that the quality and standard of the degree awards are not compromised in any way and they continue to be maintained at a high level.

1. Title and Commencement:

- i.** These regulations shall be called “**Sharnbasva University Regulations Governing the Award of ‘HONOURS’ at B.E./B.Tech. Degree Programmes, 2021-2022**”.
- ii.** These regulations shall come into force from the academic year 2021-2022.

2. Definitions/ Key Words:

- xxxiv. “**University**” means the Sharnbasva University, Kalaburagi.
- xxxv. “**AICTE**” means the All India Council for Technical Education, New Delhi.
- xxxvi. “**MHRD or MOE**” means the Ministry of Human Resource and Development or member of education, Government of India.
- xxxvii. “**Government**”, **Govt.** means the Government of Karnataka.
- xxxviii. “**UGC**” means the University Grants Commission, New Delhi.
- xxxix. “**Academic Council - AC**”, “**Board Of Management - BOM**”, means the respective of the authority of the University.
- xl. “**E-Resource**”, means learning material saved electronically in online storage platforms/ Devices for using any-where and any-time accessed online or after being downloaded from the relevant sources.
- xli. “**Honours**”, means a higher recognition awarded to a well performing UG student on earning the specific extra credits after satisfying the relevant degree award conditions.
- xlii. “**MOOCs**”, means Massive Open Online Courses in a variety of disciplines available at both introductory and advanced levels, accessible from e-resources in India and abroad.
- xliii. “**Coursework**”, means the courses prescribed for the relevant program, which the student shall successfully complete in the specified time period for the degree award.

3. Eligibility Criterion For Registration :

Every student of the University intending to register for the 'Honours' qualification shall fulfill the following academic requirements.

- i. Registration to 'Honours' qualification shall start from the fifth semester onwards.
- ii. The registrants shall have obtained a grade $\geq E$ in all the courses in the first attempt only, in the semesters until this stage.
- iii. The Registrants shall have obtained a CGPA ≥ 8.50 at the end of the fourth semester.
- iv. The Lateral entry Diploma students shall have completed Additional Mathematics I and II during 3rd and 4th semesters in first attempt only.
- v. The lateral entry B.Sc. students shall have completed Engineering Graphics and Design, and Civil Engineering and Mechanics of First-Year Engineering programme, by the end of IV semester in first attempt only.

4. Registration Procedure:

- i. Any student meeting the eligibility criteria specified above and intending to register for the Honours qualification shall apply to the University through the Dean, Faculty of Engineering and Technology of His/Her Department in the prescribed form along with the prescribed application fees within 15 working days after notification by the University.
- ii. There shall be no limit on the intake of students for registration for the Honours qualification. All the applicants fulfilling the eligibility shall be free to register for the Honours qualification.
- iii. The Registrar shall notify the registration, or otherwise, of the student/s within the next 15 working days on the University Notice Boards.
- iv. If registered, the students shall pay a one-time non-refundable registration fee as prescribed by the University to confirm the registration.

5. Additional Course Work

- a. In addition to the prescribed courses to be completed successfully in the remaining semesters, i.e. 5th to 8th semesters for the relevant degree award, each student registered for the honours qualification shall have to take up the course work as notified by the department from NPTEL and other platforms and complete each course work successfully irrespective of the number of attempts, with a final score (Online assignments : 25% + Proctored Exam: 75%) leading to NPTEL Elite (60% to 75%) / Elite + Silver (76% to 89%) / Elite + Gold ($\geq 90%$) certificate, within the minimum prescribed duration for the award of the degree. {To be read with [5.c]}.
- b. Students shall be permitted to drop the registered coursework/s and select alternative coursework/s in case they cannot appear for proctored examination/s or complete the examination as per 5(a).
- c. The University shall announce the BOS approved list of MOOCs (chosen from NPTEL/SWAYAM/other Platforms) corresponding to each engineering programme. The university shall have the freedom to review and approve additional online platforms from time to time.

- d.
- i. Students shall choose, online courses totaling to 18 or more credits from the bouquet of approved online courses as defined in 5.a.
 - ii. Students shall select, in consultation with the concerned Faculty Advisor, the MOOCs such that the content/syllabus of them are not similar to that of the programmes first to eight semesters core courses, professional electives or open electives that the student chooses at later semesters of the programme.
In case of violations, the credits earned by the students in such course/s shall not be considered for the summation of prescribed 18 or more credits and hence for the award of Honours degree.
- e. The students shall earn the credits by only appearing in person to the proctored examination conducted by NPTEL/SWAYAM/other platforms.
 - f. The method of assessment shall be as per the NPTEL, Online Platform.
 - g. The credit equivalence for online NPTEL courses shall be determined based on the following table.

Table : Assigned Credits	
Online course duration	Assigned Credits
04 weeks	01
08 weeks	02
12 weeks	03

6. Award of Honours Qualification:

All the students who successfully complete the online courses as prescribed under (5) above and submit their certificates to the University through The Dean/Chairman of their respective departments against the notification issued by the Registrar (Evaluation) in time before closure of eight semester as per calendar shall be eligible for the Honours Qualification.

- a. The Chairman of the Department shall submit the list of students who are eligible for the award of Honours degree along with the total credit earned by each student and the corresponding MOOCs certificates to the University, together with CIE marks of 8th semester.
The list shall be validated by the Faculty Advisor of the students under considerations and endorsed by the Chairman of the Department.
- b. Those students who cannot/ do not submit the certificates on or before the last date, prescribed by the University shall not be considered for the award of “Honours” qualification, irrespective of the number of credits earned by them. However, they shall be awarded only B.E./B.Tech. Degree.
- c. The ‘Honours’ qualification shall be suffixed to the respective degrees and shown in the degree certificates as a recognition of higher achievement by the student concerned.
- d. The CGPA earned by the students shall be only on the basis of students performance in the various semester level examinations conducted by the University.

- e. ..
 - i. Students shall maintain a grade $\geq D$ in all the courses of fifth to eight semesters in first attempt only.
 - ii. Students failing to maintain a grade $\geq D$ in all courses of fifth to eight semesters in first attempt only shall discontinue the attempt to earn additional credits.
 - iii. Students not having a CGPA ≥ 8.50 at the end of programme shall not be eligible for the award for Honours even if they have satisfied the additional credits consideration prescribed for Honours degree.
 - iv. The Chairmans of respective Department shall submit to the Registrar the list of such students who failed to satisfy (6(e)(i)) from time to time.
 - v. The Registrar shall notify the list of deregistered students from time to time.
- f.
 - i. The Honours degree shall be awarded only if the CGPA at end of the B.E./B.Tech. programme is ≥ 8.50 .
 - ii. Additional credits earned through NPTEL shall not be considered for CGPA of B.E./B.Tech. programme as well as rank declaration.
- g. All the students fulfilling (5(b) and (c)) and (6(e) (i) and (f)) shall be entitled to receive transcripts indicating both the achievements of the students concerned.
- h. The Award of Honours Degree shall be recommended by the Academic Council and approved by the Board of Management of the University.

7. Repeal and Savings:

- i. Notwithstanding anything contained in these Regulations, the provisions of any guidelines, orders, rules or regulations in force at the University shall be inapplicable to the extent of their inconsistency with these regulations.
- ii. The University shall issue such orders/ instructions, and prescribe such format / procedure, as it may deem fit to implement the provisions of these Regulations.

8. Interpretation:

- i. Any question as to the interpretation of these Regulations shall be decided by the Vice-Chancellor, whose decision shall be final and binding.
- ii. The University shall have the powers to issue clarification to remove any doubt,difficulty or anomaly which may arise during the implementation of the provisions of these Regulations.

SHARNBASVA UNIVERSITY REGULATIONS GOVERNING THE AWARD OF “MINOR” AT B.E./B.TECH. DEGREE PROGRAMMES 2022-2023

These regulations governing the award of ‘MINOR’ at B.E./ B.Tech., degree programmes have been framed to enhance employability skills and impart deep knowledge in emerging areas that are usually not being covered in the Undergraduate Degree credit framework. AICTE has come up with the concept of ‘Minor Degree’ in emerging areas. The concept of a Minor Degree is discussed in the Approval Process Handbook (APH) for the academic session 2022-23 page no. xxiv issued by AICTE. A Minor Degree will carry 18 credits in addition to the credits essential for obtaining the Under Graduate Degree in Major Discipline (i.e. 160 credits usually).

The **Bachelor of Engineering /Bachelor of Technology (B.E./B. Tech.) with Minor** program focuses on the fundamental principles of multiple Engineering disciplines, critical & analytical thinking, and the ability to develop a distinctive approach to interdisciplinary problems.

The key objectives of offering B.E./B.Tech with Minor programs are:

- To enable students to pursue an allied academic interest in contemporary areas
- To expand the domain knowledge of the students in one of the other branches of engineering.
- To provide an academic mechanism for fulfilling the multidisciplinary demands of industries.
- To increase the employability of undergraduate students keeping in view better opportunities in interdisciplinary areas of engineering & technology.
- To offer knowledge in the areas which are identified as emerging technologies/thrust areas of Engineering.
- Provides an opportunity for students to become entrepreneurs and leaders by taking a business/management minor.
- Provides an opportunity to Applicants to pursue higher studies in an interdisciplinary field of study.
- To increase the overall scope of the undergraduate degrees

Minor Courses Syllabus

The BOS of the University shall prepare a syllabus for courses to be included in the curriculum for minor courses to offer between fourth to eight semesters for all branches. The eligible list of programs for various minor baskets shall be submitted by the BOS of the University.

The BOS concerned shall identify as many tracks as possible in the areas of emerging technologies and industrial relevance/demand. For example, the minor tracks can be the fundamental courses in CSE, ECE, EEE, CE, ME etc or industry tracks such as Artificial Intelligence (AI), Machine Learning (ML), Data Science (DS), Robotics, Electric vehicles, Robotics, VLSI etc.

The list of disciplines/branches eligible to opt for a particular industry-relevant minor specialization shall be clearly mentioned by the respective BOS

9. Title and Commencement:

iii. These regulations shall be called “**Sharnbasva University Regulations Governing the Award of ‘Minor’ at B.E./B.Tech. Degree Programmes, 2022-2023**”.

iv. These regulations shall come into force from the academic year 2022-2023.

10. Definitions/ Key Words:

- xliv. “**University**” means the Sharnbasva University, Kalaburagi.
- xlv. “**AICTE**” means the All India Council for Technical Education, New Delhi.
- xlvi. “**MHRD or MOE**” means the Ministry of Human Resource and Development or member of education, Government of India.
- xlvii. “**Government**”, **Govt.** means the Government of Karnataka.
- xlviii. “**UGC**” means the University Grants Commission, New Delhi.
- xlx. “**Academic Council - AC**”, “**Board Of Management - BOM**”, means the respective of the authority of the University.
 - l. “**E-Resource**”, means learning material saved electronically in online storage platforms/ Devices for using any-where and any-time accessed online or after being downloaded from the relevant sources.
 - li. “**Minor**”, means a recognition awarded to a well performing UG student on earning the specific extra credits after satisfying the relevant degree award (Major) conditions.
 - lii. “**MOOCs**”, means Massive Open Online Courses in a variety of disciplines available at both introductory and advanced levels, accessible from e-resources in India and abroad.
 - liii. “**Coursework**”, means the courses prescribed for the relevant program, which the student shall successfully complete in the specified time period for the degree award.

11. Eligibility Criterion For Registration :

Every student of the University intending to register for the ‘Minor’ qualification shall fulfill the following academic requirements.

- vi. A student can opt for B.E./ B.Tech., degree with a Minor program if she/he has no active backlogs till the 3rd semester at the time of registration.
- vii. The minimum CGPA required to maintain up to the 3rd semester at the time of registration and onward up to completing the core degree program is ≥ 5.0 .
- viii. A CGPA of ≥ 5.0 has to be maintained in the subsequent semesters without any backlog in order to keep the Minors' registration active.
- ix. Prior approval of mentor, chairperson, and Dean of the University for the enrollment into the Minor program, before commencement is mandatory.

12. Registration Procedure:

- i. Any student meeting the eligibility criteria specified above and intending to register for the Minor qualification shall apply to the University through the Dean of Faculty in the prescribed form along with the prescribed application fees within 15 Working days after notification by the University.
- ii. There shall be no limit on the intake of students for registration for the Minor qualification. All the applicants fulfilling the eligibility criteria can register.
- iii. The Registrar shall notify the registration, or otherwise of the students within the next 15 working days on the University Notice Boards with copies to the Chairman of the Department and copy to Dean of Faculty of Engineering and Technology concerned.
- iv. If registered, the students shall pay a one-time non-refundable registration fee as prescribed by the University to confirm the registration.
- v. A fee for late registration may be imposed as per the university norms.

13. Rules

- i. The choice to opt/take a Minor program is purely the choice of the students.
- ii. For B.E./B. Tech. with a Minor, a student needs to earn additional 18 credits (over and above the required 160 credits for the B.E./B. Tech program). The list of courses of each Minor program, the irrespective credits weightage, and the semester-wise break-up of the courses is enclosed as Annexure-I. All these 18 credits need to be completed between the **III semester to VII/ VIII semesters only**.
- iii. These 18 credits are to be earned from the additional courses offered by the department.
- iv. The students should choose a course from the list against each semester (from the Minor course structure) other than the course they have studied/registered for regular B.E./B.Tech program. No course should be identical to that of the regular B.E./B.Tech., course. The students should take the advice of faculty mentors while registering for a course at the beginning of the semester.
- v. After registering for the Minor program, if a student is unable to earn all the required 18 credits in a specified duration (twice the duration of the course), he/she shall not be awarded a Minor degree. However, if the student earns all

the required 160 credits of B.E./B.Tech., he/she will be awarded only B.E./B. Tech degree in the concerned branch.

- vi.** Minor must be completed simultaneously with a major degree program. A student cannot earn the Minor after he/she has already earned bachelor's degree.
- vii.** The student can choose only one Minor program along with his/her basic Engineering Degree. A student who chooses an Honours program is not eligible to choose a Minor program and vice-versa.
- viii.** There is no transfer of credits from Minor program courses to regular B.E./B.Tech.Degree course & vice-versa.
- ix.** A student can graduate with a Minor if he/she fulfills the requirements for his/her regular B.E./B.Tech program as well as fulfills the requirements for the Minor Program.
- x.** The maximum number of courses for the Minor is limited to two (three in case of inclusion of lab) in a semester along with regular semester courses.
- xi.** Any students failing to maintain the performance in the 4th-8th Semesters at UG, as the case may be, at the levels prescribed under clauses 3 (i) (ii) shall discontinue the attempt to earn additional credits. The Registrar (Evaluation) shall notify the list of deregistered students from time to time.
- xii.** The student shall be given a choice of withdrawing all the courses registered and/or the credits earned for the Minor program at any time; and in that case, the student will be awarded only B.E./B. Tech. degree in the concerned branch on earning the required credits of 160.
- xiii.** The University shall maintain a record of students registered and pursuing their Minor program, minor program-wise, and parent branch-wise.
- xiv.** The Department shall prepare the time-tables for each Minor course offered without any overlap/clash with other courses of study in the respective semesters.
- xv.** The weekly instruction hours, internal & external evaluation, and award of grades are on par with regular 4-Years B.E./B. Tech. program.
- xvi.** A Minor, in a program is permitted only if the University has a respective UG program and lab facilities as per the scheme of the curriculum of Minors courses.
- xvii.** There shall be no limit on the number of programs offered under Minor.
- xviii.** The University can offer Minor programs in emerging technologies based on expertise in the respective Departments or can explore the possibility of collaborating with the relevant industries/agencies/Institutes in offering the program.
- xix.** If industries/agencies/Institutes have sufficient expertise/infrastructure in the respective area/discipline. An undertaking to this effect has to be submitted by the Dean and is subjected to scrutiny/audit by the University. Complaints from any corner regarding this issue will not be entertained by the University and shall be addressed by the respective Dean.
- xx.** The Department can opt the courses from an external industry/agency/institute recommended and approved by the concerned BOS

and should produce a course completion certificate. The BOS of the concerned discipline of Engineering shall review such courses being offered by eligible external industry/agency/institute and prepare a fresh list every year incorporating the latest skills based on industrial demand.

14. Award of Minor Qualification:

- i. All the students who complete the course as prescribed under Section 5 above and submit their certificates in time before the closure of the UG (8th Semester) as per the academic calendar shall be eligible for the “Minors” qualification.
- ii. The ‘ Minors’ qualification shall be suffixed to the respective degrees and shown in the Degree certificate as a recognition of higher achievement by the student concerned .The CGPA and/or Class awarded to the students shall be only based on students’ performance in the various semester-level examinations conducted by the University.

15. Repeal and Savings:

- i. Notwithstanding anything contained in these Regulations, the provisions of any guidelines, orders, rules or regulations in force at the University shall be inapplicable to the extent of their inconsistency with these regulations.
- ii. The University shall issue such orders/ instructions, and prescribe such format / procedure, as it may deem fit to implement the provisions of these Regulations.

16. Interpretation:

- i. Any question as to the interpretation of these Regulations shall be decided by the Vice-Chancellor, whose decision shall be final and binding.
- ii. The University shall have the powers to issue clarification to remove any doubt, difficulty or anomaly which may arise during the implementation of the provisions of these Regulations.

(EXAMPLE FOR MINOR)					
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING					
S.NO	COURSE NAME	L-T-P	CR	PRE - REQ	OFFERED TO
TRACK -1 POWER SYSTEMS					
1	Distribution System Planning & Automation				All departments except the EEE department
2	Restructured Power Systems				
3	HVDC & FACTS				
4	Power Quality				
5	Smart Grid Technologies				
TRACK -2 POWER ELECTRONICS					
1	Advanced Power Electronics				All departments except the EEE department
2	Advanced Electrical Drives				
3	HVDC & FACTS				
4	Power Quality				
5	Hybrid Electrical Vehicles				
TRACK- 3 CONTROL SYSTEMS					
1	State Estimation & System Identification				All departments except the EEE department
2	Digital Control Systems				
3	Non Linear Control Systems				
4	Optimal Control Systems				
5	Adaptive Control Systems				
TRACK- 4 ENERGY SYSTEMS					
1	Energy Conservation & Audit				All departments except the EEE department
2	Utilization of Electrical Energy				
3	Solar & Fuel cell Energy Systems				
4	Wind & Biomass Energy Systems				
5	Nuclear, Geothermal & Tidal Energy Systems				

The student has to select the track for his minor degree and register himself with the department. Each department has to forward the list of the students registered track-wise to the University before the commencement of the 4th semester. However, the change of track is permitted within 15 days of the registration.

Example for awarding of Minor degree

S. No.	Minor Program track name	Eligible branch of students	@Offering Department	Award of Degree
1.	Artificial Intelligence & Machine Learning	All branches, except B. Tech. in CSE (AI&ML) /B. Tech.(AI&ML)/ B. Tech. (AI)/ B. Tech. CSE(AI)	CSE	“B. Tech. in <u>branch-name</u> with Minor in Artificial Intelligence& Machine Learning”
2.	Cyber Security	All branches, except B. Tech. in CSE (Cyber Security)/ B. Tech. (Cyber Security)	CSE	“B. Tech. in <u>branch -name</u> with Minor inCyber Security”
3.	Data Science	All branches, except B. Tech.in CSE (Data Science)/ B.Tech. (Data Science)	CSE	“B. Tech. in <u>branch name</u> with Minor inData Science”
4.	IOT	All branches, except B. Tech.in CSE (IOT) / B. Tech. (IOT)	ECE	“B. Tech. in <u>branch-name</u> with Minor inIOT”
5.	Innovation and Entrepreneurship	All branches.	Management Science / MBA	“B. Tech. in <u>branchname</u> with Minor inInnovation and Entrepreneurship”

Additional Sample Minor programs Track list

Engineering & Technology Stream

- Nano Engineering
- Advanced Vehicle Engineering
- Biomedical and Micro Engineering
- Biomedical Engineering
- Aerospace Engineering
- Earth and Atmospheric Science
- Civil Infrastructure
- Environmental Engineering
- Structural Engineering
- Geotechnical Engineering
- Environmental & Water Resource Engineering
- Transportation Engineering
- Computer Science
- Electrical and Computer Engineering
- Game Design
- Network Engineering
- Software Engineering
- Distributed & Cloud Computing
- Information Science
- Computational Intelligence
- Communication Engineering
- Digital Systems
- Signal Processing
- Digital Systems
- Power System
- Power Electronics
- Control Systems
- Energy Systems
- Industrial Systems and Information Technology
- Materials Science and Engineering
- Mechanical Engineering
- Robotics
- Sustainable Energy Systems

MBA stream

- Business Administration
- Business Analytics
- Entrepreneurship
- Finance
- Human Resource Management
- International Business
- Leadership
- Management Information Systems
- Supply Chain and Operations Management
- Operations Research and Management Science
- Business for Engineering Students
- Entrepreneurship and Innovation
- Engineering Management



CHAPTER – 6

AICTE ACTIVITY POINT PROGRAMME

ADDITIONAL REQUIREMENT FOR EARNING 4 YEARS DEGREE PROGRAMME

Apart from technical knowledge and skills, to be successful as professionals, students should have excellent soft skills, leadership qualities and team spirit. They should have entrepreneurial capabilities and societal commitment. In order to match these multifarious requirements, AICTE has created a unique mechanism of awarding minimum 100 Activity Points over and above the academic grades.

Every regular student, who is admitted to the 4 years Degree programme, is required to earn 100 Activity Points in addition to the required academic grades, for getting 4 Years degree programme. Students entering 4 years Degree programme through lateral entry are required to earn 75 Activity Points, in addition to the academic grades, for getting 4 years' degree program. Similarly, Diploma students are required to earn 75 Activity Points during 3 years of their diploma programme.

AICTE recommends 300-400 hours Activity Programme for each degree student for Community service and allied activities. Similarly, 200-250 hours should be devoted by Diploma student for Community service and allied activities as an additional requirement or non-credit programme. Here, 40-45 hours are equivalent to 1 week.

These activities will be coordinated by NSS/NCC/Sports/SAGY Coordinator or TPO of the Institute. The student will be provided a certificate from the concerned coordinator and Institutional Head.

Every student is required to prepare a file containing documentary proofs of activities, done by him/ her. This file will be duly verified by the concerned evaluator as listed in Table-4. The student should earn at least 100 activity points before he/ she appears for his/ her Final Examinations. The points students have earned will be reflected on the student's transcript. However, there will be neither grades/ marks for these points nor will there be any effect on SPI/CPI/CGPA etc.

As proposed under the AICTE Rural Internship Programme, if a student completes any long term goal during his degree programme, it will be counted as Internship Activity and credit requirement for the internship is fulfilled. However, if only short term interventions under the programme are attempted it will be counted towards AICTE Activity Point Programme requisite. Following suggestive activities as Long Term Goals may be carried out by students in teams:

1. Prepare and implement plan to create local job opportunities.
2. Prepare and implement plan to improve education quality in village.
3. Prepare an actionable DPR for Doubling the village Income.
4. Developing Sustainable Water Management system.
5. Prepare and Improve a plan to improve health parameters of villagers.
6. Developing and implementing of Low Cost Sanitation facilities.
7. Prepare and implement plan to promote Local Tourism through Innovative Approaches.
8. Implement/Develop Technology solutions which will improve quality of life.
9. Prepare and implement solution for energy conservation.

AICTE INTERNSHIP POLICY: GUIDELINES & PROCEDURES

10. Prepare and implement plan to Skill village youth and provide employment.
11. Develop localized techniques for Reduction in construction Cost.
12. Prepare and implement plan of sustainable growth of village.
13. Setting of Information imparting club for women leading to contribution in social and economic issues.
14. Developing and managing Efficient garbage disposable system.
15. Contribution to any national level initiative of Government of India. For eg. Digital India/ Skill India/ Swachh Bharat Internship etc

The student may choose any activities as per their liking in order to earn the AICTE Activity points. These activities can be spread over the years, as per convenience of the student. The Minimum points required as per entry level of any student are presented in Table 3.

Table 3. The activity Point requirement for Degree/ Diploma/ Lateral entry students

Level of entry in degree courses	Total Years to Earn Points	Minimum Points
Degree Programmes		
1st Year Regular	1st to 4th Year	100
2nd Year (3rd Sem.) through lateral entry or transfer from other University	2nd to 4th year	75
Diploma Programmes		
1st Year Regular	1st to 3rd Year	75
2nd Year (3rd Sem.) through lateral entry	2nd to 3rd Year	50

Table 4: AICTE Activity Point Programme (Activity Summary Sheet)

Major Area of Activity	Credits (Max.) Degree/Diploma	Suggested period (Max.)	Total Duration/Week		Sub Activity-Head	Proposed Document or Evidence	Evaluated by	Performance appraisal/ Maximum points/ activity	Maximum Points under this category
			Degree	Diploma					
AICTE Activity Programme	Non Credit	Anytime during the semester during weekends or holidays	2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Prepare and implement plan to create local job opportunities.	Project Report	NSS/ NCC/ SAGY Coordinator of the Institute	20	100
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Prepare and implement plan to improve education quality in village.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Preparing an actionable DPR for Doubling the village Income.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Developing Sustainable Water Management system.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Prepare and improve a plan to improve health parameters of villagers.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Developing and implementing of Low Cost Sanitation facilities.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Prepare and implement plan to promote Local Tourism through Innovative Approaches.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Implement/Develop Technology solutions which will improve quality of life.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Prepare and implement solution for energy conservation.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Prepare and implement plan to Skill village youth and provide employment.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Develop localized techniques for Reduction in construction Cost.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Prepare and implement plan of sustainable growth of village.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Setting of Information Imparting club for women leading to contribution in social and economic issues.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Developing and managing Efficient garbage disposable system.			20	
			2 Weeks (80-90 hrs)	1 Week (40-45 hrs)	Contribution to any national level Initiative of Government of India. For eg. Digital India/ Skill India/ Swachh Bharat Internship etc			20	