

R.S. No. 199B/1-3, Gokul Shirgaon, Kolhapur - 416 234,
Maharashtra, INDIA.
Tel. +91 7769001199, 9168781199
Fax +91 231 263 8881
Email : info@kitcoek.in
Web : www.kitcoek.in



KOLHAPUR INSTITUTE
OF TECHNOLOGY'S
**COLLEGE OF
ENGINEERING
KOLHAPUR**

An Autonomous Institute
Accredited 'A' Grade by NAAC with CGPA 3.12

KIT/CEK No 1151

27 SEP 2018

To,
Director,
Board of Examinations and Evaluation,
Shivaji University,
Vidyanagar, Kolhapur

Subject: Request for granting an approval for absorption of students from University
affiliated pattern to Autonomous System.

Respected Sir,
Greetings and Good Wishes !

We are very much thankful and appreciate the guidance provided by various sections of Shivaji University for implementing the autonomy. We would like to bring to your kind notice that University nominees at various statutory committees are providing guidance for flawless execution.

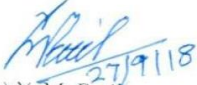
Referring to the subject cited above, the institute is proposing herewith the Modalities and a Subject wise Comprehensive Plan for Absorption of Students from University Pattern in to Autonomous System. for those who have failed and lost a year in academics.


In continuation with the proposed modalities, we are requesting you to grant permission to our institute for allowing the interested students those who have failed (Year Down) to take readmission in the autonomous system. Similarly, please allow the students those who have passed or got ATKT in affiliated system to take admission in autonomous system. The students who have ATKT they will complete their backlog by giving examination in affiliated system only. The detailed plan is attached herewith.

Therefore, we request you for granting an approval.

Thanking you and with warm regards,

Yours Sincerely


Prof. (Dr.) Y. M. Patil
Controller of Examination (CoE)


Dr. V.V. Karjinni
Director

0/c.
Encl : A copy of Modalities and Subject wise comprehensive Plan.


संचालक
परीक्षा व मूल्यांकन मंडळ कार्यालय
शिवाजी विद्यापीठ, कोल्हापूर



KOLHAPUR INSTITUTE OF TECHNOLOGY'S COLLEGE OF ENGINEERING (AUTONOMOUS), KOLHAPUR

MODALITIES AND COURSE WISE COMPREHENSIVE PLAN FOR ABSORPTION OF STUDENTS FROM UNIVERSITY PATTERN TO AUTONOMOUS PATTERN

(UNDER GRADUATE & POST GRADUATE)



R.S.No. 199B/1-3, Gokul Shirgaon, Kolhapur – 416 234. Maharashtra, INDIA.

Tel : +91 7769001199, 9168781199

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Email : info@kitcoek.in Web : www.kitcoek.in

Short Title and Commencement:

1. The Regulations listed under this head are common for all degree level undergraduate programs (B.Tech.) offered by the Institute.
2. The Proposal for Absorption of students from University pattern in to Autonomous system is applicable for all UG Engineering (B.Tech.).
3. The regulations here under are subjected to amendments as may be made by the Academic council of the Institute and approval of Shivaji University from time to time. Any or all such amendments will be effective from such date and to such batches of the candidates, including those already undergoing the program, as may be decided by the academic council.

Preliminary Definitions, Nomenclatures or Abbreviations:

1. “Autonomous Institute/ College” mean an institute / college designated as autonomous institute by the Shivaji University, Kolhapur, as per University College status and Regulations.
2. “Academic Autonomy” means freedom to the college in all aspects of conducting its academic programmes, granted by the University for promoting excellence.
3. “UGC” means University Grant Commission.
4. “AICTE” means All India Council for Technical Education.
5. “DTE” means Directorate of Technical Education.
6. “SUK” means Shivaji University, Kolhapur
7. “Program” shall mean a structured package of the courses offered by the Institute leading to B.Tech
8. “B.Tech.” means Bachelor of Technology.
9. “M.Tech. means Master of Technology.
10. “Branch” means specialization in a program like B.Tech. Degree program in Engineering.
11. “Course/ Subject” means a theory, practical, project subject, identified by its course number and course title, which is studied in a semester. For example UBSH0101 Engineering Mathematics and approved by concerned authorities.
12. “Course Coordinators” means a faculty member who shall have full responsibility for the course, coordinating the work of other faculty member(s) involved in that course, including examinations and award of grades.
13. “ISE-I” and ISE-II” means In Semester Examination.
14. “MSE” means Mid Semester Examination.

15. "ESE" means End Semester Examination.
16. "SGPA" means Semester Grade Point Average.
17. "CGPA" means Cumulative Grade Point Average.
18. "AC" Academic Council.
19. "BoS" means Board of Studies.
20. "HOD" Head of Department.
21. "UG" Under Graduate.
22. "PG" Post Graduate.
23. "BoE" Board of Examination Committee.
24. "COE" Controller of Examination.
25. "EQ" means Equivalence
26. "U" means Equivalence available for theory and indicated or Replacement is provided.
27. "P" means Equivalence available for Practical and indicated or Replacement is provided.
28. "A" means Add on course in Autonomous system and required Bridge Course.

1] Preamble:

Kolhapur Institute of Technology's College of Engineering, Kolhapur an institute established in May 1983, which has reflected the vision of leading industrialists and educationalists. The vast exposure and experience of its founder members has helped this Institute to establish its identity as an Institute of repute in the field of Engineering. The Institute has been awarded "A" status by Govt of Maharashtra in recognition of its overall academic excellence and infrastructure. It is permanently affiliated to Shivaji University, Kolhapur and is approved by AICTE, New Delhi. The Institute has been accredited by NBA in the year 2005 and 2008. In January 2015, the Institute was accredited with "A" grade (3.12 CGPA) by NAAC. Institute is Spread over a sprawling 30 acres, the natural form of the landscape has been preserved. The spacious campus houses the main building, hostels for boys & girls, workshops with a built-up area of around 27,500 sq. m. and an innovative waste recycling system, windmills, and gardens dotted with solar powered lamps.

The structure embraces within its fold classrooms, drawing halls, laboratories, computing facilities, seminar halls, library, canteen, open-air auditorium, and a gymnasium. The interiors have been crafted keeping in mind the fact that 'ambiance does inspire and stimulate intellectual endeavors'. The playground behind the main building, where all the outdoor activities are held. The teaching-learning process is student centric and governed by the concept of outcome based education.

A booklet is developed to give comprehensive information on the rules and regulations for Examination cell with due approval of Academic council. All undergraduate and post graduate programmes functioning is governed by these rules and regulations. All departments adheres to these rules and regulations approved by the academic council from time to time. Keeping in view the ever growing challenges and new developments, the curriculum has been developed. The stakeholders particularly the students, and parents/guardians, are advised to be fully familiar with the academic system of the institute. Students should know the rules and regulations governing academic requirements, evaluation system, and grading system. These rules and regulations have been developed through discussion with HODs, senior faculties and as per the directives of UGC, AICTE and by studying the rules and regulations of other reputed autonomous institutes. It is expected that these rules will bring transparency in the functioning of the institute related with academics amongst students, faculty members, administrators, parents and other stakeholders. Kolhapur Institute of Technology's College of Engineering, Kolhapur has student oriented academic system, every possible opportunity is provided to progress academically, and overall development of the students is ensured.

The Academic Council has been conferred with certain powers and duties to decide the methodology for examination and evaluation of the programmes run by this institute. The various Committees constituted, shall continue to function and shall be governed by the Academic Council. Board of Examination (BOE) is one of such committees instituted on similar lines as those of Maharashtra University Act 1994.

2] Academic Outline and Programmes offered:

KIT'S College of Engineering, Kolhapur Institute provides Science based Engineering education with a view to produce quality engineers. The curriculum provides board based knowledge and molds the student in life long process of learning. The syllabus structure includes foundation courses in the area of mathematics, basic science, humanities along with departmental requirements. Departmental courses offer core and elective choices and in total constitute more than 50% of the total curriculum.

Academic programs of the institute are governed by the rules and regulations approved by the academic council, which is the highest academic body of the institute. These academic rules and regulations are applicable to the students admitted into first year of four year undergraduate program offered by the Institute, leading B.Tech. degrees in the engineering discipline. The autonomous institute follows semester pattern for all four years (UG) programs with internal and external evaluation.

Semester Pattern: Each academic year shall be divided into two semesters, each of 90 days duration, including instructions, in semester evaluation, etc. each semester consists of 28 to 32 contact periods per week.

Programs offered by the Institute:

Academic Department	Programmes Offered	Code
Bio Technology	B.Tech. (Bio Technology)	BIO
Civil Engineering	B.Tech.(Civil Engineering)	CVL
Computer Science & Engineering	B.Tech. (Computer Science and Engineering)	CSE
Electronics & Telecommunication Engineering	B.Tech. (Electronics & Telecommunication Engineering)	ETC
Electronics Engineering	B.Tech. (Electronics Engineering)	ELN
Environmental Engineering	B.Tech. (Environmental Engineering)	ENV
Information Technology	B.Tech. (Information Technology)	ITE
Mechanical Engineering	B.Tech. (Mechanical Engineering)	MCH
Production Engineering	B.Tech. (Production Engineering)	PRD
Electrical Engineering	B.Tech. (Electrical Engineering)	EEE

B.Tech. Program extends over a period of four academic years or eight semesters leading to the Degree of Bachelor of Technology of Shivaji University, Kolhapur. The first year at any academic program shall be completed in three year with at least 75% of the credits allotted.

The medium of instruction in the institute is English.

PG :

M.Tech. Program extends over a period of two academic years or four semesters leading to the Degree of Master of Technology administration of Shivaji University, Kolhapur.

3] Curriculum Framework and its Development:

Curriculum Framework is important in setting the right direction for a degree program, as it takes into account the type and quantum of knowledge necessary to be acquired by a student to qualify for a particular award in his/her chosen program. Besides this it also helps in assigning the credits to each course, sequencing the courses semester-wise and finally arriving at the total number of courses to be studied and total number of credits to be earned by a student to fulfill the requirement for a particular conferment.

A typical Framework for B.Tech. program includes courses from Basic Science, Interdisciplinary Engineering, Humanities, Professional Core Either Theory and/or Practical, open Elective, Projects, seminars, Industrial Training and Ability and Skill Enhancement Courses. Also there is provision for inclusion of National Service scheme (NSS), Social Service Scheme (SSS) and any other program as declared by director from time to time.

4] ACADEMIC CALENDER

4.1 The academic activities of the college shall be governed by academic calendar prepared by Dean Academics and approved by the AC/ASC. It shall be notified at the beginning of each academic year. Academic calendar shall incorporate schedule of admission, course registration, course delivery, examination/evaluation, course feedback, course/graduate exit survey, co-curricular activities, extra-curricular activities, holidays, compensation for academic loss, meetings (AC, ASC, IQAC, BoE, Alumni), academic audit, and vacation.

4.2 The curriculum shall be typically delivered in two semesters in an academic year. Each semester shall be of 20 weeks (approximately 100 working days) duration, including evaluation, grade moderation and result declaration. Generally, 13-14 weeks (72-77 days) for course content delivery and 4-6 weeks (20-30 days) for examination/evaluation shall be assigned in each semester. The academic session in each semester shall provide at least 75 teaching days, with 40 hours of teaching per week.

The first and second semesters of an academic year normally shall begin from first week of July and first week of January respectively.

- 4.3** The academic calendar should be strictly adhered to, and all other activities including co-curricular and extra-curricular activities should be scheduled so as not to interfere with the curricular activities as stipulated in the academic calendar.
- 4.4** The non-conduct of academics on any particular working teaching day for whatsoever reason shall be made up by having the class/lab/teaching sessions conducted on a suitable holiday by following the particular class time table of that teaching day which was so lost.

5. ATTENDANCE

- 5.1** All students should attend the classes and expected to be regular (100% attendance) for all the courses. The attendance records of students should be maintained in Kolhapur Institute of Technology's College of Engineering, Kolhapur MOODLE by the course teacher. The students should check their attendance on MOODLE regularly and should contact respective course teacher for any discrepancy/grievance.
- 5.2** A maximum of 25% exemption in the attendance may be permitted for the approved leave of absence from class teacher/HoD for participating in co-curricular/extra-curricular activities/medical emergencies/reasons beyond the control of student. Students with more than 75% attendance shall not be imposed with any grade penalty.
- 5.3** Students reported having "non-satisfactory performance" in a laboratory/seminar/mini project/project by the course teacher shall obtain F1 grade. Non-satisfactory performance shall be reported in case of not satisfying/fulfilling the requirements for the respective courses.
- 5.4** The students with less than 75% attendance in theory course/s shall be liable for grade penalty as below:
- Students having attendance greater than or equal to 65% but less than 75% shall be allowed to appear for ESE in that course with maximum grade of B.
 - Students having attendance greater than or equal to 50% but less than 65% shall be allowed to appear for ESE in that course with maximum grade of C.
- 5.5** Students having attendance less than 50% shall be awarded with F2 grade in that course.
- 5.6** Students obtaining F2 grade in a course/s shall not be eligible to appear for ESE in that semester and also makeup examination in that semester for these course/s. The performance of such students in ISE and MSE for this course/s shall be cancelled.
- 5.7** Students obtaining F2 grade shall re-register for the course/s in subsequent year.

5.8 Students obtaining “F2” grade in more than three courses in a regular semester shall be detained for that semester and shall not be allowed to appear for ESE in that semester and also make up examination in that semester for any of the courses. The performance of the student in ISE and MSE for all courses shall be cancelled. Such students shall have to re-register for all courses of that semester in next academic year and undergo all evaluations along with regular students.

6. CURRICULUM

6.1 There shall be a prescribed course structure for each of the academic programmes and in general terms it shall be known as the curriculum of courses of study. The curriculum prescribes all the courses of study semester-wise with credits, assigned teaching/contact hours, evaluation scheme and minimum requirements for the award of degree. The curriculum revisions/reforms/revamping shall be a continuous process governed by outcome based education, choice based credit system and AICTE guidelines.

6.2 The components of curriculum with the weightages assigned are given in Table 6.1. The weightage given for these components are in line with those suggested by AICTE.

TABLE 6.1: COMPONENTS OF CURRICULUM

S. No.	Component of curriculum	Weightage assigned
1	Humanities, Social science and Management	6
2	Basic sciences including mathematics	15
3	Engineering science	15
4	Professional core	34
5	Professional elective	15
6	Open elective	5
7	Project work, Seminar, Internship in industry etc.	10

6.3 The curriculum shall have credit and audit courses. The structure of curriculum for a programme and course syllabi shall be approved by AC on recommendation of respective BoS.

6.4 Normally number of courses in a semester shall not be more than six for theory and four for laboratory courses.

6.5 Open electives offered by any parent department shall be the courses listed in the curriculum structure under the open elective category. These shall be offered to students of any other department (including parent department) in 6th and 7th semester. Normally,

professional and open electives shall be conducted if minimum of fifteen students opt for that elective course.

6.6 Major project work shall be in 8th semester. Project work in the final year facilitates students in exhibiting their technical knowledge and professional skills to address a solution to societal/industrial problems. It also encourages students to work in teams and adopt project management skills. The preparatory work for the project shall be carried out in 7th semester under project Phase I work. The students shall have to carry out the project either within campus or in industry/autonomous institutes/reputed organizations. Normally, major project work shall be carried out by not more than three in a group. The formation of project groups shall be based on policy of respective departments. The students shall be encouraged to opt for Sponsored Project at Industry/Institute (SPAI). The projects under SPAI/any project outside the campus require approval from concerned department.

6.7 Process and guidelines for SPAI shall be:

- I. Students may opt for SPAI to be carried out in 8th semester.
- II. Students opting for SPAI should decide, identify and interact with relevant industry/institute in 7th semester itself. However, as per the specific needs of a particular department, the departmental academic and programme evaluation committee shall decide appropriately. Students shall take necessary help from their parent department/ Training and placement officer (TPO) to establish contact with industries/institutes.
- III. Students shall submit the application attached with relevant details viz. correspondence with industry, area and nature of project, progress report to the department before the end of 7th semester.
- IV. Director/Dean Academics shall issue permission letter to the students on the recommendation of HoD. Students shall be allowed to work in the industry/institute for maximum of 13 weeks during the project work in 8th semester.
- V. An internal guide from the parent department and mentor from industry/organization/institute where project is to be undertaken shall be allocated to student. Both guides should discuss and finalize the scope of project work and monitor the progress together.
- VI. Internal guide should visit the industry at least 5 times in a semester to see the progress of his/her student. Faculty will be supported with travelling and dearness allowance to visit industry/institute.

- VII. Students should maintain a diary, regularly write progress and get the approval from both internal and external guides at least twice in a month either by physically reporting or through email communication. If the progress is not found satisfactory due to any reason, the corrective action should be taken by consulting with Dean academic.
- VIII. Progress report and certification of the project work undertaken shall be submitted by the student to the respective guide. The mode of evaluation shall be same as adopted for students carrying out projects inhouse.
- IX. In addition to the Project work during 8th semester student shall undergo two online courses from Coursera , EDX, IIT BombayX. He/she shall submit the certificate/evidence of course completion to the department while submitting the final Project.

6.8 A course code shall be:

Level	Program Code			Revision	Semester	Course Number	
L	B	B	B	R	S	C	N

Where,

L	Level – U for UG, P for PG																																							
BB B	<ul style="list-style-type: none">BBB – Program code for Core Courses, Laboratory Courses, Seminar, Project, Professional Electives, Audit Course <table border="1"><thead><tr><th>Code</th><th>Program (UG) / Dept</th></tr></thead><tbody><tr><td>BIO</td><td>Biotechnology</td></tr><tr><td>CVL</td><td>Civil</td></tr><tr><td>CSE</td><td>Computer Sci.</td></tr><tr><td>ENV</td><td>Environmental</td></tr><tr><td>ELN</td><td>Electronics</td></tr><tr><td>ETC</td><td>Electronics & Tele Comm.</td></tr><tr><td>ITE</td><td>Information Technology</td></tr><tr><td>MCH</td><td>Mechanical</td></tr><tr><td>PRD</td><td>Production</td></tr><tr><td>BSH</td><td>Basic Sciences & Humanities</td></tr></tbody></table> <table border="1"><thead><tr><th>Code</th><th>Program (PG)</th></tr></thead><tbody><tr><td>ETC</td><td>Electronics & Tele Comm.</td></tr><tr><td>MPD</td><td>Mechanical – Production</td></tr><tr><td>CCC</td><td>CAD/CAM/CAE</td></tr><tr><td>IDE</td><td>Industrial Engineering</td></tr><tr><td>CSE</td><td>Computer Sci. & Engineering</td></tr><tr><td>ENV</td><td>Environmental</td></tr><tr><td>BEB</td><td>Biochemical Engineering & Biotechnology</td></tr></tbody></table> <ul style="list-style-type: none">OEL – Open ElectivesIMC – Institute Mandatory Courses		Code	Program (UG) / Dept	BIO	Biotechnology	CVL	Civil	CSE	Computer Sci.	ENV	Environmental	ELN	Electronics	ETC	Electronics & Tele Comm.	ITE	Information Technology	MCH	Mechanical	PRD	Production	BSH	Basic Sciences & Humanities	Code	Program (PG)	ETC	Electronics & Tele Comm.	MPD	Mechanical – Production	CCC	CAD/CAM/CAE	IDE	Industrial Engineering	CSE	Computer Sci. & Engineering	ENV	Environmental	BEB	Biochemical Engineering & Biotechnology
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BEB	Biochemical Engineering & Biotechnology																																							
R	Course Revision Number																																							
S	Semester 1 to 8 for UG, 1 to 4 for PG																																							
CN	Course Number for Core Courses, Laboratory Courses, Seminar, Project, Professional Electives, Audit Courses are - <ul style="list-style-type: none">01 – 20: Core Courses21 – 30: Professional Electives31 – 40: Laboratory Courses41 – 50: Seminars and Mini Projects, Industrial Training51 – 60: Project, Dissertation61 – 70: Audit Courses																																							

	<p>Course Number for Open Electives are –</p> <ul style="list-style-type: none"> • 01 – 10: Offered by Department of Biotechnology Engineering • 11 – 20: Offered by Department of Civil Engineering • 21 – 30: Offered by Department of Computer Engineering • 31 – 40: Offered by Department of Environmental Engineering • 41 – 50: Offered by Department of Electronics Engineering • 51 – 60: Offered by Department of Electronics & Tele Comm. Engineering • 61 – 70: Offered by Department of Information Technology Engineering • 71 – 80: Offered by Department of Mechanical Engineering • 81 – 90: Offered by Department of Production Engineering
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Example:

Course Code	Description
UELN1312	Represents Core Course of Third Semester of Second Year B. Tech in Electronics. i.e. Core Course of S.Y. B. Tech (Electronics) Semester – 3
UITE1437	Represents Laboratory Course of Fourth Semester of Second Year B. Tech in Information Technology
UOEL1670	Represents Open Elective offered for B. Tech at 6 th Semester
UIMC1601	Represents Institute Mandatory Course to be undergone in 6 th Semester by undergraduate students

6.9 A typical description of course syllabus shall consist of course title, course code, teaching hours per week for lecture/tutorial/practical, credit, pre-requisites, text books, reference books, objectives, outcomes with relevant Bloom's taxonomy levels, mapping of course outcome with programme outcome, assessment scheme, content, and module-wise outcomes.

6.10 The details of curriculum structure and course details shall be published in college MOODLE (<https://210.212.172.190>) and website (www.kitcoek.in)

6.11 Summer term shall also be conducted for academically weak students during the academic year for theory courses. Remedial classes and student-teacher interactive sessions shall be conducted during summer term. The duration of summer term shall be typically 3-4 weeks. The registration for the courses in summer term shall be mainly to students who have obtained F grade in a course in the current academic year. Students with F2 grade shall also be allowed for registration to summer term. However, students with F2 grade shall not be allowed to appear for makeup examination in that semester as mentioned in section 6.5. Attendance penalty given in section 6.3 shall be applicable for makeup examination also.

Students with F1/F2 grade may register for course/s in a summer term by paying prescribed fee for each course. A particular course/s shall be conducted if the number of registered students for a course/s is more than 10. The registered students should attend the classes regularly. Attendance rules shall be applicable to summer term also.

6.12 Credit System

The primary purpose of the credit system is continuous evaluation of a student's performance which is measured by the number of credits the student has earned. Typically, credit measures the quantum of work involved in a course. The cumulative performance index (CPI) is calculated based on the course credits and grades obtained by the student. A minimum number of earned credits and a minimum CPI should be acquired in order to qualify for the degree. A typical credit structure for various courses with various combinations of theory/ tutorial and laboratory/ project/ seminar/ mini-project hours is given in Table 6.2.

TABLE 6.2: ASSIGNED CREDITS FOR VARIOUS TYPES OF COURSES

Hours per week per student for			Credits assigned
Theory	Tutorial/ Seminar	Laboratory/ Project	
0	0	2	1
0	1	0	1
1	0	0	1
0	0	4	2
1	1	0	2
1	0	2	2
3	0	0	3
2	0	2	3
2	1	0	3
3	1	0	4
3	0	2	4
4	0	0	4
2	0	4	4

$$\text{Credit} = \text{Theory hours} + \text{Tutorial hours} + 0.5 (\text{Laboratory hours})$$

A student can earn credits for a particular course by fulfilling the minimum academic requirements of attendance and evaluation. No credits shall be awarded if a student satisfies the minimum attendance requirements but fails to meet minimum evaluation requirements.

The total number of credits required for completing a programme typically is 190 for regular entry and 140 for lateral entry. The exact number of credits required is mentioned in the

curriculum structure for the respective programme. The total number of credits in a semester in which a student shall register is generally 23-28. Normally, the maximum number of credits per semester shall not exceed 30.

6.13 Award of Degree :

Student shall earn a minimum number of credits 170 as specified in the curriculum. He/She shall obtain CGPA>5 (Minimum requirement for passing)

PG : Student shall earn a minimum number of credits 76 for award of M.Tech.

Development in Curriculum:

An important stakeholder of academic institute is industry which expects various qualities from Engineers, Further, there is a considerable changes happening all around in every sector of Industry, there is vibrant growth in technology, by considering there facts, new curriculum has designed and new courses are introduced based on skill development, ability enhancement, project based learning, industrial training, open electives etc. it is expected that these changes shall help us to improve student quality in terms of thinking ability, evaluation and analysis of engineering concepts, creativity, higher order and continue learning ability.

However, the challenges from other side of situation is quality of input students in terms of diversified social, economic and geographical background, rural and urban background and command on English. In this wide range of students, few of them may perform academically weak and results in to fail in particular subject(s) of that academic year. In the progressive autonomy, such students have to be absorbed in autonomous system for continuing their leftover academic undertakings. Therefore, with kind request institute is proposing the modalities supported by subject wise comprehensive plan to the affiliated Shivaji University for granting an approval to follow and guide the institute.

7. ABSORPTION OF STUDENTS:

During such transformation of academically weak students into autonomous system, it is important to note that their academic performance shall be converted into credits and CPA instead of marks and percentage. This academic activity has well defined and institute shall follow the same as described in modalities. The students from affiliated system to autonomous system will be absorbed as per the academic rule 4.5 depicted in academic handbook as

Students admitted to Kolhapur Institute of Technology's College of Engineering, Kolhapur in pre-autonomous status and desirous of seeking re-admission shall be eligible for admission in autonomous status only in odd (1st, 3rd, 5th, and 7th) semesters. Such students should have passed all the courses of previous semesters or fulfill the prevailing ATKT norms of Shivaji University, Kolhapur. The students admitted through ATKT norms shall clear backlog courses by appearing for the respective examinations of Shivaji University, Kolhapur. Further they shall undergo additional academic requirements (bridge courses) if any as specified by the BoS of the respective department to be at par with Kolhapur Institute of Technology's College of Engineering, Kolhapur autonomous curriculum. Students who have obtained condone in any of the subjects/courses of university curriculum by Shivaji University, Kolhapur shall be considered to have cleared that subjects/courses.

Similarly the students those who have failed in the particular class in affiliated system and wants to take readmission in the same class in autonomous system then he will require to cancel his performance of that year from university system and take readmission in the same class in autonomous system.

8. Modalities for Equivalence and Absorption of Students:

Comprehensive plan for Absorption of student from affiliated system to Autonomous System is as follows:

A] Admission Year 2015-16 (FE):

The students who have taken admission in academic year 2015-16 in first year Engineering and fail in subsequent Examinations till May-June 2018, such students are not allowed to seek admission in Second year (S Y B. tech) as they are NFTE. However those students are fail but applied for revaluation for the subject in which he failed, based on result of revaluation candidate shall take admission in second year. (If candidate fails he will not allowed to take admission in Second year or Readmission in First Year as he completes 3 years after first year admission. If candidates get pass/ATKT then he shall take admission in Second Year B Tech)

B] Admission Year 2016-17(FE):

Candidates whose result is PASS shall take admission in Second year Autonomous System in 2018-19 and he/she will have to register for bridge courses defined by respective BOS.

Candidates whose result is ATKT shall take admission in Second year Autonomous

System in 2018-19 and candidate will have to register and clear bridge courses defined by respective BOS. The student shall clear his backlog by appearing for Shivaji University Examinations.

The complete flow diagram is shown in FD 1

2] Admission in second Year in 2017-18 or in previous years:

Candidates whose result is PASS /ATKT shall take admission in Third year of Affiliated System in 2018-19.

Candidates whose result is FAIL shall-

i) take Readmission in Second year of Autonomous System in 2018-19 by cancelling his/her SUK Examination Performance

OR

ii) clear his backlog by appearing for Shivaji University Examinations and seek admission in Autonomous System

in the year 2019-20. Such candidate will have to register and clear bridge courses defined by respective BOS.

The complete flow diagram is shown in FD 2

3] Admission in Third Year in 2018-19 or in previous years:

Candidates whose result is pass/ATKT shall take admission in Final year in affiliated System (year 2019-20).

Candidates whose result is FAIL shall-

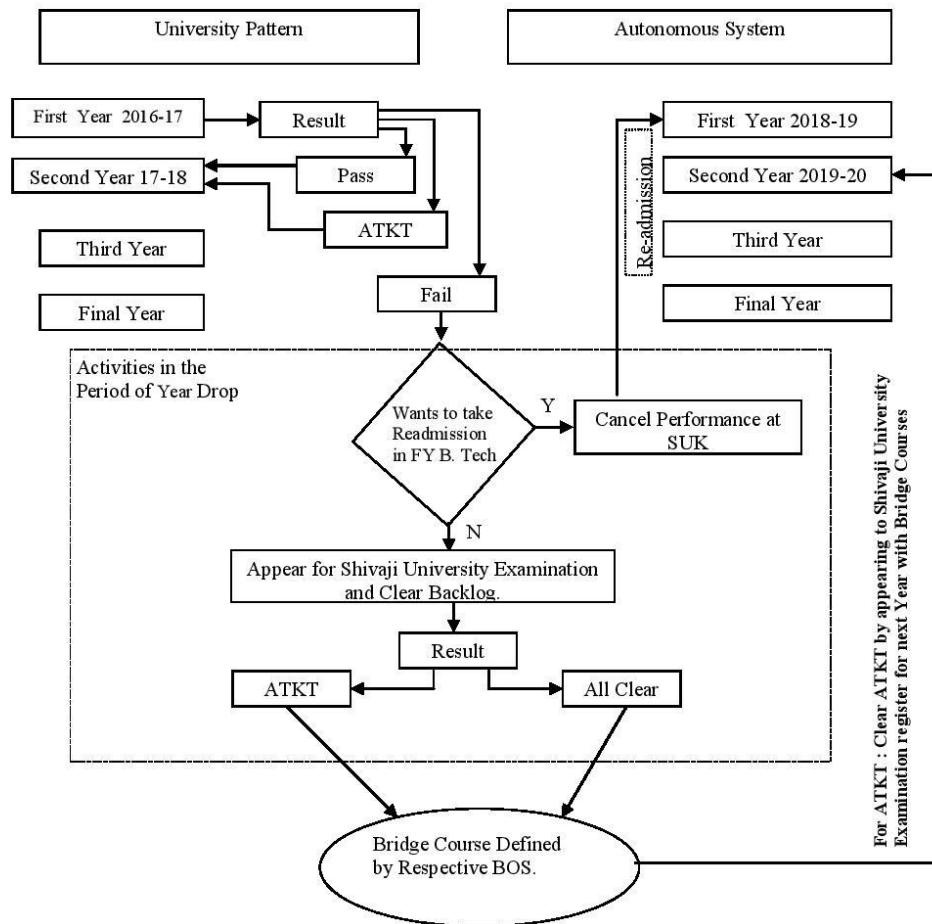
i) take Readmission in Third Year of Autonomous System in 2019-20 by cancelling his/her SUK Examination Per-formance

OR

ii) clear his backlog by appearing for Shivaji University Examinations and seek admission in Final Year of Autono-mous System in the year 2020-21. Such candidate will have to register and clear bridge courses defined by respective BOS.

The complete flow diagram is shown in FD 3

Absorption in First/Second Year UG



Note:

Admission Year 2015-16 (FE):

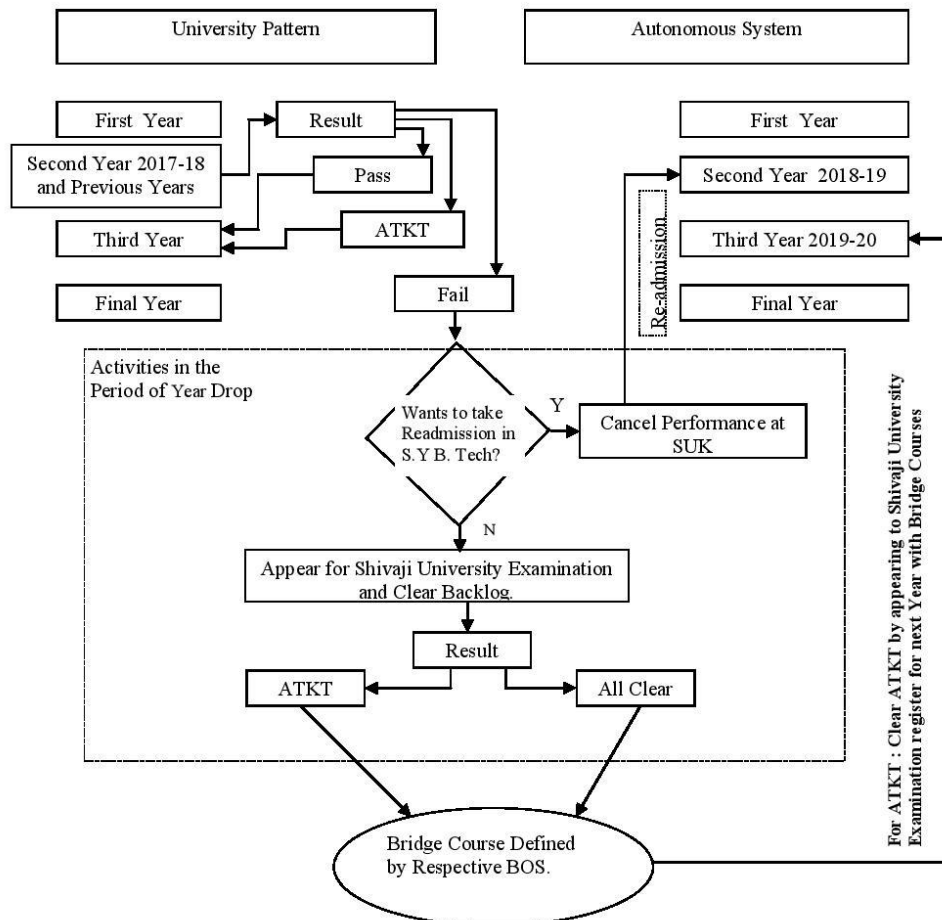
The students who have taken admission in academic year 2015-16 in first year Engineering and fail in subsequent Examinations till May-June 2018, such students are not allowed to seek admission in Second year (S Y B. tech) as they are NFTE. However those students are fail but applied for revaluation for the subject in which he failed, based on result of revaluation candidate shall take admission in second year. (If candidate fails he will not allowed to take admission in Second year or Readmission in First Year as he completes 3 years after first year admission. If candidates gets pass/ATKT then he shall take admission in Second Year B Tech)

Admission Year 2016-17(FE):

Candidates whose result is PASS shall take admission in Second year Autonomous System in 2018-19 and he/she will have to register for bridge courses defined by respective BOS.

Candidates whose result is ATKT shall take admission in Second year Autonomous System in 2018-19 and candidate will have to register and clear bridge courses defined by respective BOS. The student shall clear his backlog by appearing for Shivaji University Examinations.

Absorption in Second/Third Year UG



Note:

Admission in second Year in 2017-18 or in previous years:

Candidates whose result is PASS /ATKT shall take admission in Third year of Affiliated System in 2018-19.

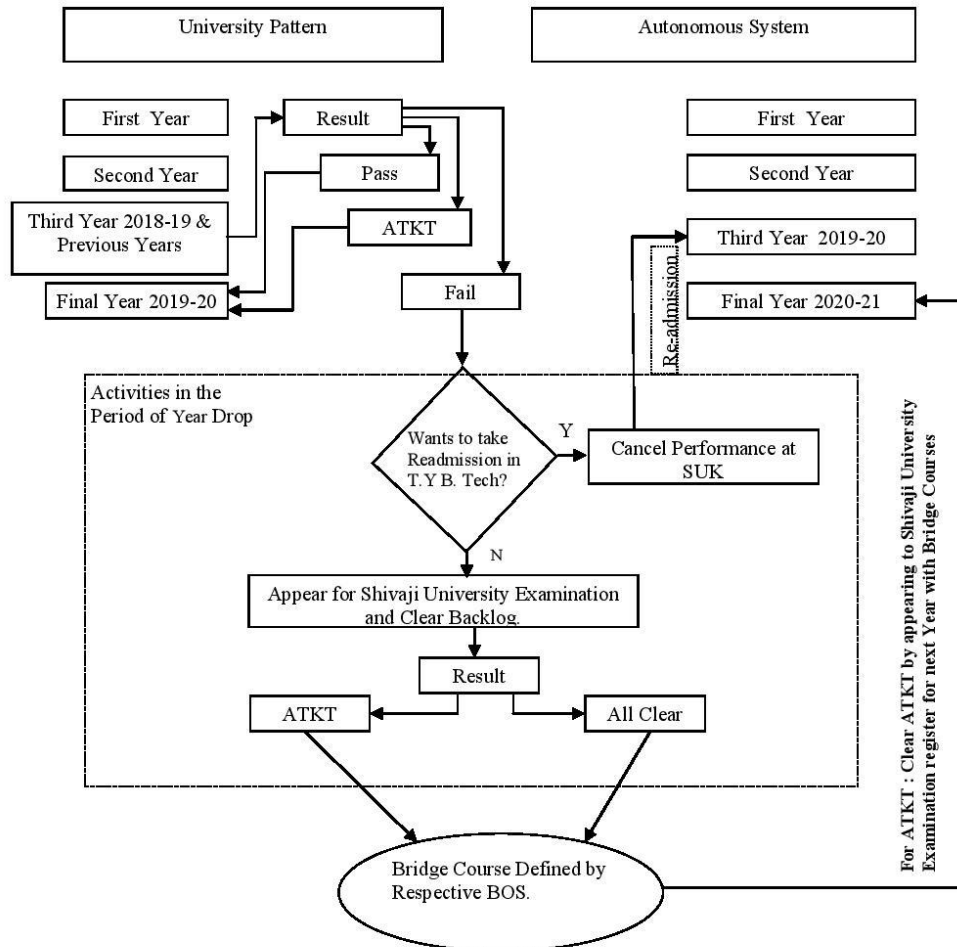
Candidates whose result is FAIL shall-

i) take Readmission in Second year of Autonomous System in 2018-19 by cancelling his/her SUK Examination Performance

OR

ii) clear his backlog by appearing for Shivaji University Examinations and seek admission in Autonomous System in the year 2019-20. Such candidate will have to register and clear bridge courses defined by respective BOS.

Absorption in Third/Final Year UG



Note:

Admission in Third Year in 2018-19 or in previous years:

Candidates whose result is pass/ATKT shall take admission in Final year in affiliated System (year 2019-20).

Candidates whose result is FAIL shall-

i) take Readmission in Third Year of Autonomous System in 2019-20 by cancelling his/her SUK Examination Performance

OR

ii) clear his backlog by appearing for Shivaji University Examinations and seek admission in Final Year of Autonomous System in the year 2020-21. Such candidate will have to register and clear bridge courses defined by respective BOS.

9. Course/Subject wise Comprehensive Plan:

The objective of the proposal course/ subject wise comprehensive Plan is:

- To define the equivalence to the respective subjects/ courses of Shivaji University Curriculum from newly designed autonomous curriculum.
- To design a Bridge Course(s) for the students registering in between the autonomous system; for the additional course floated in autonomous system which are not covered in earlier semesters University pattern.

Bridge Course

In case of registration to first semester of second year (semester III of Program), for the additional courses in autonomous pattern, which are not covered in University pattern; Institute/ department may float a bridge course in which students has to achieve satisfactory performance. The bridge course shall be conducted at weekends/ evening classes in the Institute and the course objectives shall cover important components of such additional courses; to make a new entering student technically fit to cope-up with other students of the class.

A design of Bridge course shall be conceptual and important contents shall be included. This course may content lecture as well as practical depending on requirements. Based on contents, assign number of Lectures and / or practical. Based on course content, department shall define method of evaluation. The Examination for the bridge course will be conducted at department level and the result of it shall be conveyed to COE.

Abbreviations used in Comprehensive Plan.

EQ For Subject / Course from University pattern an equivalence is available in Autonomous system with changes less than or equal to 20%.

U/P For subject / Course from University pattern an equivalence is available in Autonomous system other semester and indicated, however, in case non-equivalence, are placement is provided with competence course in Autonomous system. P is mentioned for Practical courses for simplicity purpose.

A For the Course(s) which are additional in Autonomous system, and not covered in earlier semesters of University pattern; a bridge course has been designed.

Following Section shows the bridge courses defined by each board of studies by developing equivalence and looking curriculum gap between Autonomous system and affiliated system. It also contains details of credits to be earned by the students entering from affiliated system to autonomous system.

Kolhapur Institute of Technology's

COLLEGE OF ENGINEERING (AUTONOMOUS)

Gokul Shirgaon, Kolhapur



An Autonomous Institute
"A" Grade by NAAC with CGPA 3.12

Absorption of Students

**From University System to Autonomous
System**

UG Programme

First Year B.Tech.

(Common for all Branches)

Academic Year 2017-2018

List of Bridge Courses to be given by Students seeking admission to S.Y.B. Tech under Autonomous Structure after completing F.E. in University System

Bridge course code	Name of the Bridge Course(Autonomous)
UBSH0171	Introduction of Auto CAD
UBSH0172	Fundamentals of German Language
UBSH0173	Basic Psychology

All students entering to SY B.TECH in Autonomy after completing FE in University System has to complete bridge course

Credit Comparison

Group A			
Program		Credits in University System	Credits in Autonomous System
Year	Semester		
1	I (PHY)	24	25
	II (PHY)	24	25
Total		48	50

Group B			
Program		Credits in University System	Credits in Autonomous System
Year	Semester		
1	I (CHEM)	24	25
	II (CHEM)	24	25
Total		48	50

Dr. M.S. Chavan
Dean Academics
KIT's College of Engg.

Dr. D.J.Sathe
Chairperson, BOS
Basic Science and Humanities

Kolhapur Institute of Technology's

COLLEGE OF ENGINEERING (AUTONOMOUS)

Gokul Shirgaon, Kolhapur



An Autonomous Institute
"A" Grade by NAAC with CGPA 3.12

Absorption of Students

**From University System to Autonomous
System**

UG Programme

DEPARTMENT OF BIOTECHNOLOGY ENGINEERING

List of Bridge Courses to be given by Students seeking admission to T.Y.B. Tech under Autonomous Structure after completing S.E. in University System

List of Bridge Courses:

Course Code	Name of the Bridge Course
UBIO0371	Bioprocess Calculations
UBIO0372	Genetic Engineering
UBIO0373	Immunology
UBIO0374	Bioinformatics

List of Bridge Courses to be given by Students seeking admission to Final Year B. Tech under Autonomous Structure after completing T.E. in University System

List of Bridge Course:

Course Code	Name of the Bridge Course
UBIO0571	Bioreaction Engineering
UBIO0572	Animal Biotechnology

CREDIT COMPARISON TABLE
DEPARTMENT OF BIOTECHNOLOGY ENGINEERING

Program		Credits in University System	Credits in Autonomous System	No of Credits to be competed when student absorbs in year of Program		
Year	Semester			Second Year	Third Year	Final Year
1	I	24	25	24	24	24
	II	24	25	24	24	24
2	I	25	22	22	25	25
	II	24	22	22	24	24
3	I	24	22	22	22	24
	II	25.5	22	22	22	25.5
4	I	26.5	20	20	20	20
	II	23	12	12	12	12
TOTAL		196	170	168	173	178.5

Dean Academics

Mr. M. V. Patgaonkar
BoS Chairman & HOD
Department of Biotechnology Engineering

Kolhapur Institute of Technology's

COLLEGE OF ENGINEERING (AUTONOMOUS)

Gokul Shirgaon, Kolhapur



An Autonomous Institute
"A" Grade by NAAC with CGPA 3.12

**Absorption of Students
From University System to Autonomous System
UG Programme**

DEPARTMENT OF CIVIL ENGINEERING

List of Bridge Courses to be given by Students seeking admission to T.Y.B. Tech under Autonomous Structure after completing S.E. in University System

List of Bridge Course:

Course Code	Name of the Course (Bridge)
UCVL0471	Environmental Engineering

List of Bridge Courses to be given by Students seeking admission to Final Year .B. Tech under Autonomous Structure after completing T.E. in University System

List of Bridge Course:

Course Code	Name of the Bridge Course
UCVL0571	Mini Project
UCVL0572	Audit Course
UCVL0573	Design of Concrete Structures-I
UCVL0674	Professional Elective-I
UCVL0675	Open Elective-I

CREDIT COMPARISON TABLE
DEPARTMENT OF CIVIL ENGINEERING

Program		Credits in University System	Credits in Autonomous System	No of Credits to be competed when student absorbs in year of Program		
Year	Semester			Second Year	Third Year	Final Year
1	I	24	25	24	24	24
	II	24	25	24	24	24
2	I	24	22	22	24	24
	II	24	22	22	24	24
3	I	24	22	22	22	24
	II	23	22	22	22	23
4	I	24	20	20	20	20
	II	23	12	12	12	12
TOTAL		190	170	168	172	175

Dean Academics

Mr. M. A. Chavan
BoS Chairman & HOD
Department of Civil Engineering

Kolhapur Institute of Technology's

COLLEGE OF ENGINEERING (AUTONOMOUS)

Gokul Shirgaon, Kolhapur



An Autonomous Institute
"A" Grade by NAAC with CGPA 3.12

**Absorption of Students
From University System to Autonomous System
UG Programme**

**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**

List of Bridge Courses to be given by Students seeking admission to T.Y.B. Tech under Autonomous Structure after completing S.E. in University System

Sr. No	Code	Name
1	UCSE0371	Computer Graphics

List of Bridge Courses to be given by Students seeking admission to Final Year B. Tech under Autonomous Structure after completing T.E. in University System

Sr. No	Code	Name
1	UCSE0471	Advanced Database Systems
2	UCSE0472	Programming Paradigm

CREDIT COMPARISON TABLE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Program		Credits in Affiliated system	Credits in Autonomous system	No of Credits to be completed when student absorbs in year of program-		
Year	Semester			Second Year	Third Year	Final Year
1	I	24	25	24	24	24
	II	24	25	24	24	24
2	I	26	22	22	26	26
	II	25	22	22	25	25
3	I	26	22	22	22	26
	II	25	22	22	22	25
4	I	24	20	20	20	20
	II	24	12	12	12	12
Total		198	170	168	175	182

Dean Academics

Mr. A.S.PATIL
BoS Chairman & HOD
Department of Computer Science & Engineering

Kolhapur Institute of Technology's

COLLEGE OF ENGINEERING (AUTONOMOUS)

Gokul Shirgaon, Kolhapur



An Autonomous Institute
"A" Grade by NAAC with CGPA 3.12

**Absorption of Students
From University System to Autonomous System
UG Programme**

**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
ENGINEERING**

List of Bridge Courses to be given by Students seeking admission to T.Y.B. Tech under Autonomous Structure after completing S.E. in University System

List of Bridge Course:

Course Code	Name of the Course (Bridge)
UETC0371	Environmental studies
UETC0372	Enhancing Soft skills & Personality Development
UETC0373	Mini project-I

List of Bridge Courses to be given by Students seeking admission to Final Year B. Tech under Autonomous Structure after completing T.E. in University System

List of Bridge Course:

Course Code	Name of the Bridge Course
UETC0571	Industry Management
UETC0572	Mini project-II
UETC0573	Engineering Economics

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

CREDIT COMPARISON TABLE

Program		Credits in University System	Credits in Autonomous System	No of Credits to be competed when student absorbs in year of Program		
Year	Semester			Second Year	Third Year	Final Year
1	I	24	25	24	24	24
	II	24	25	24	24	24
2	I	26	22	22	24	24
	II	25	22	22	24	24
3	I	26	22	22	22	24
	II	25	22	22	22	23
4	I	24	20	20	20	20
	II	21	12	12	12	12
TOTAL		195	170	168	172	175

Dean Academics

Dr. Mrs. S. R. Chougule
BoS Chairman & HOD
Department of E&TC Engineering

Kolhapur Institute of Technology's

COLLEGE OF ENGINEERING (AUTONOMOUS)

Gokul Shirgaon, Kolhapur



An Autonomous Institute
"A" Grade by NAAC with CGPA 3.12

Absorption of Students

From University System to Autonomous System

UG Programme

DEPARTMENT OF ELECTRONICS ENGINEERING

List of Bridge Courses to be given by Students seeking admission to T.Y.B. Tech under Autonomous Structure after completing S.E. in University System

Sr.No.	Bridge Course Code	Bridge Course Title
1	UELN0371	Audit course-I Environmental Studies
2	UELN0372	Micro project- I LAB
3	UELN0373	Signals & Systems
4	UELN0374	Audit course-II Content Creation using Information and web Technologies
5	UELN0775	Micro-project 2 (LAB)

List of Bridge Courses to be given by Students seeking admission to Final Year B. Tech under Autonomous Structure after completing T.E. in University System

Sr.No.	Bridge Course Code	Bridge Course Title
1	UELN05XX	Professional Elective-I
2	UELN05XX	Professional Elective-I LAB
3	UELN0561	Audit Course-III Industry Standards
4	UELN0551	Micro project-III LAB
5	UOEL06**	Open Elective
6	UELN06XX	Professional Elective-II
7	UELN0661	Audit Course-IV Vedic Maths

DEPARTMENT OF ELECTRONICS ENGINEERING

CREDIT COMPARISON TABLE

Credit Comparison						
Program		Credits in Affiliated System	Credits in Autonomous System	No. of Credits to be completed when student absorbs in Year of Program		
Year	Semester			Second Year	Third Year	Final Year
1	I	24	22	24	24	24
	II	24	22	24	24	24
2	III	26	22	22	26	26
	IV	25	22	22	25	25
3	V	21	22	22	22	21
	VI	25	22	22	22	25
4	VII	25	20	20	20	20
	VIII	23	12	12	12	12
	Total	193	164	168	175	177

Dean Academics

Er. A.R. Nigavekar
BoS Chairman & HOD
Department of Electronics Engineering

Kolhapur Institute of Technology's

COLLEGE OF ENGINEERING (AUTONOMOUS)

Gokul Shirgaon, Kolhapur



An Autonomous Institute
"A" Grade by NAAC with CGPA 3.12

**Absorption of Students
From University System to Autonomous System
UG Programme**

DEPARTMENT OF INFORMATION TECHNOLOGY

List of Bridge Courses to be given by Students seeking admission to T.Y.B. Tech under Autonomous Structure after completing S.E. in University System

Course Code	Name of Course(Autonomous)
UITE0371	Soft skills
UITE0372	Mini Project-I

List of Bridge Courses to be given by Students seeking admission to Final year B.Tech IT under Autonomous Structure after completing T.E. IT in University System.

Course Code	Name of Course(Autonomous)
UITE0571	Machine Learning
UITE0572	Distributed Computing

DEPARTMENT OF INFORMATION TECHNOLOGY

CREDIT COMPARISON TABLE

Program		Credits in Affiliated system	Credits in Autonomous system	No of Credits to be completed when student absorbs in year of program-		
Year	Semester			Second Year	Third Year	Final Year
1	I	24	25	24	24	24
	II	24	25	24	24	24
2	I	27	22	22	27	27
	II	26	22	22	26	26
3	I	25	22	22	22	25
	II	24	22	22	22	24
4	I	24	20	20	20	20
	II	27	12	12	12	12
Total		201	170	168	177	182

Dr. M. S. Chavan

Dean, Academics

Prof. T. B. Patil

Head, department of IT

Kolhapur Institute of Technology's

COLLEGE OF ENGINEERING (AUTONOMOUS)

Gokul Shirgaon, Kolhapur



An Autonomous Institute
"A" Grade by NAAC with CGPA 3.12

**Absorption of Students
From University System to Autonomous System
UG Programme**

DEPARTMENT OF MECHANICAL ENGINEERING

List of Bridge Courses to be given by Students seeking admission to T.Y.B. Tech under Autonomous Structure after completing S.E. in University System

Course code	Name of the Course (Bridge)
UMCH0371	Electrical Technology
UMCH0372	Machine Drawing & Computer Aided Drafting
UMCH0373	Manufacturing Process
UMCH0474	Machine Tools

List of Bridge Courses to be given by Students seeking admission to Final Year B. Tech under Autonomous Structure after completing T.E. in University System

Course code	Name of the Course (Audit Course)
UMCH0571	Control Engineering
UMCH0572	Industrial Management & Operation Research

CREDIT COMPARISON TABLE

Program		Credits In Affiliated System	Credits In Autonomous System	No of credits completed when students absorbs in year of program		
Year	Semester			Second Year	Third Year	Final Year
1	I	23	25	23	23	23
	II	23	25	23	23	23
2	III	27	22	22	27	27
	IV	25	22	22	25	25
3	V	26	22	22	22	26
	VI	27	22	22	22	27
4	VII	25	20	20	20	20
	VIII	26	12	12	12	12
Total		202	170	166	174	183

Dr. S. M. Pise

B.O.S. Chairman

Mechanical Engineering

Kolhapur Institute of Technology's

COLLEGE OF ENGINEERING (AUTONOMOUS)

Gokul Shirgaon, Kolhapur



An Autonomous Institute
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Absorption of Students
From University System to Autonomous System
UG Programme

DEPARTMENT OF PRODUCTION ENGINEERING

List of Bridge Courses to be given by Students seeking admission to T.Y.B. Tech under Autonomous Structure after completing S.E. in University System

Course code	Name of the Course (Bridge)
UPRD0371	Metallurgy
UPRD0372	Mechanical Measurement & Metrology
UPRD0373	Professional Soft Skills (Audit)

List of Bridge Courses to be given by Students seeking admission to Final Year B. Tech under Autonomous Structure after completing T.E. in University System

Course code	Name of the Course (Audit Course)
UPRD0571	Industrial Management & Psychology
UPRD0572	Industrial Hydraulics & Pneumatics
UPRD0573	Mechatronics Systems
UPRD0574	Quality & Reliability Engineering (Audit Course)

DEPARTMENT OF PRODUCTION ENGINEERING
CREDIT COMPARISON TABLE

Program		Credits in affiliated systems	Credits in Autonomous system	No. of credits to be competed when student absorbed in year of program		
Year	Semester			Second year	Third year	Final year
1	I	24	25	24	24	24
	II	24	25	24	24	24
2	I	22	22	22	22	22
	II	23	22	22	23	23
3	I	24	22	22	22	24
	II	24	22	22	22	24
4	I	22	20	20	20	20
	II	23	12	12	12	12
Total		186	170	168	173	173

* Based on definition of credits, converted SUK syllabus structure to credits for comparison purpose.

Dr. M.S. Chavan
Dean Academics
KIT's College of Engg.

Prof. G.R.Naik
BOS Chairman
Production Engineering

Kolhapur Institute of Technology's

COLLEGE OF ENGINEERING (AUTONOMOUS)

Gokul Shirgaon, Kolhapur



An Autonomous Institute
"A" Grade by NAAC with CGPA 3.12

Absorption of Students
From University System to Autonomous System
UG Programme

DEPARTMENT OF ENVIRONMENTAL ENGINEERING

List of Bridge Courses to be given by Students seeking admission to T.Y.B. Tech under Autonomous Structure after completing S.E. in University System

Course code	Name of the Bridge Course
UENV0371	Building Drawing and Services

List of Bridge Courses to be given by Students seeking admission to Final Year B. Tech under Autonomous Structure after completing T.E. in University System

Course code	Name of the Bridge Course
UENV0571	Building Planning and Design
UENV0572	Structural Mechanics - II

DEPARTMENT OF ENVIRONMENTAL ENGINEERING

CREDIT COMPARISON TABLE

Program		Credits in Affiliated System	Credits in Autonomous System	No. of Credits to be completed when student absorbs in year of Program		
Year	Semester			Second Year	Third Year	Final Year
1	I	24	25	24	24	24
	II	24	25	24	24	24
2	I	26	22	22	26	26
	II	24	22	22	24	24
3	I	25	22	22	22	25
	II	25	22	22	22	25
4	I	25	20	20	20	20
	II	22	12	12	12	12
Total		195	170	168	174	180

Dean Academics

Kolhapur Institute of Technology's College of
Engineering (Autonomous), Kolhapur

Dr. Akshay R. Thorvat

B.O.S. Chairman

Department of Environmental Engineering
Kolhapur Institute of Technology's College of
Engineering (Autonomous), Kolhapur