REGULATIONS AND CURRICULUM GOVERNING

B.Sc. DENTAL TECHNOLOGY PROGRAM

Implemented in Academic Year 2022-23

Revised in 2024

Amended up to 2025

Name of the constituent Unit: Yenepoya School of Allied Health Sciences

YENEPOYA
(DEEMED TO BE UNIVERSITY)

Deralakatte, Mangalore, Karnataka

YENEPOYA
(DEEMED TO BE UNIVERSITY)

NOTIFICATION FROM THE UNIVERSITY

Sl. No.	ACM with date	Decisions/Approvals
1.	47th ACM/ 20.06.2022	Starting the BSc course in Dental Technology from the Academic Year 2022 -2025 under the Faculty of Allied & Healthcare Professions
2.	56th ACM/ 15/05/2024	Introduction of values added course –Basic computers and medical record management in BSc dental technolgy under the Faculty of Allied & Healthcare Professions from the academic year 2024.
3.	64th ACM/ 14/08/2025	(i) Proposal for revision in progression criteria of the BSc dental technology course. (ii) Implementing Ability Enhancement Course "English and Communication" in all B.Sc. Technology Programs under the Faculty of Allied & Healthcare Professions was approved.

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1. Preamble

Laboratory training dental technology requires the application of a wide range of knowledge and experience in an integrated manner for the provision of appliances for patients. Dental technology is divided into four main areas, fixed prosthodontics, complete denture technology, removable denture technology and orthodontic technology.

The graduate will be prepared to:

- Demonstrate the breadth of knowledge in the principals of restorative dental prosthesis and dental sciences.
- Demonstrate proficiency in the technical competency skills necessary to perform at or beyond an entry-level position in a dental laboratory.
- Select and utilize specified materials in the construction of dental prostheses, recognizing the materials limitations and advantages.
- Work and communicate effectively as part of an interdisciplinary health care team.
- Design and construct dental prostheses using current technologies and materials.
- The Government of India has notified NEP - 2020 on July 29, 2020 with the objective to bridge the gap between the current system of education and what is required in the 21st century. It is to have holistic and multidisciplinary UG education to produce employable graduates with integrated personality,with an aim to develop good thoughtful, well rounded and creative individuals & the higher education should enable an individual to study one or more specialized area of interest at a deep level and also develop character, ethical and constitutional values, intellectual curiosity, scientific temper, creativity, spirit of service and 21st centuries capabilities across a range of disciplines including science, social sciences, arts, humanities, languages, as well as professional, technical and occasional subjects. The policy envisages the regulations and shall facilitate students to choose their own learning path to attain a Degree or Diploma or academic qualification, working on the principle of multiple entry-multiple exit as well as any-time, any-where, and any-level learning. Policy emphasizes preparing students for more meaningful and satisfied lives, work roles and enable economic independence.

Choice based Credit System is a flexible system of learning. The distinguishing features of CBCS are following:

- It permits students to learn at their own pace.
- Choose Electives from a wide range of Elective courses offered by the other departments/university.

- Undergo additional courses to acquire more than the required number of credits.
- Adopt an Inter-disciplinary and Intra-disciplinary approach in learning
- Make best use of the available expertise of the faculty across the departments or disciplines.
- Has an inbuilt evaluation system to assess the analytical and creative skills of students in addition to the conventional domain knowledge assessment pattern.

2. Definitions

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

b. **Semester System / Choice Based Credit System:** The semester system accelerates the teaching – learning process. The CBCS provides flexibility in designing curriculum and assigning credits based on the course content and hours of teaching. The choice based credit system provides a cafeteria type approach in which the students can take courses of their choice, undergo additional courses and acquire more than the required credits, and adopt an interdisciplinary approach to learning.

An academic year shall consist of two semesters:

Odd Semester 1st, 3rd, 5th& 7th	September/October to February/March
Even semester 2nd, 4th, 6th& 8th	March/April to August/September

c. **Course:** Usually referred to, as "papers" is a component of a programme. The courses shall define learning objectives and learning outcomes. A course shall comprise lectures/ tutorials/ laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these. The courses can be of the following types i.e. Core, Ability Enhancement, Skill enhancement, Value added courses, Multidisciplinary Electives and Internship.

d. **Credits:** Credit defines the quantum of contents/syllabus prescribed for a course and determines the number of hours of instruction required per week. Thus, normally in each of the courses, credits will be assigned on the basis of the number of

lectures/tutorial laboratory work and other forms of learning required, to complete the course contents in a 15-20week schedule: One credit =1 hour of lecture per week/ two hours of Laboratory or practical/three hours of clinical rotation, field work/posting. All courses need not carry the same credits.

	Lecture (L)	**Tutorial (T)**	**Practical (P)**	**Clinical Rotation (CR)**
1 Credit	1 Hour	1 Hour	2 Hours	3-5 Hours

Credit Hours for different types of courses: Each course may have only a lecture component or a lecture and tutorial component or a lecture and practicum component or a lecture, tutorial, and practicum component, or only practicum component. For example, a three-credit lecture course in a semester means three one-hour lectures per week with each one-hour lecture counted as one credit. In a semester of 15 weeks duration, a three-credit lecture course is equivalent to 45 hours of teaching.

One credit for tutorial work means one hour of engagement per week. In a semester of 15 weeks duration, a one-credit tutorial in a course is equivalent to 15 hours of engagement.

A one-credit course in practicum or lab work, community engagement and services, and fieldwork in a semester mean two-hour engagement per week. In a semester of 15 weeks duration, a one-credit practicum in a course is equivalent to 30 hours of engagement.

A one-credit of Seminar or Internship or Studio activities or Field practice/projects or Community engagement and service means two-hour engagements per week. Accordingly, in a semester of 15 weeks duration, one credit in these courses is equivalent to 30 hours of engagement.

A course can have a combination of lecture credits, tutorial credits, and practicum credits. For example, a 4–credit course with three credits assigned for lectures and one credit for practicum shall have three 1-hour lectures per week and one 2-hour duration field-based learning/project or lab work, or workshop activities. In a semester of 15 weeks duration, a

4-credit course is equivalent to 45 hours of lectures and 30 hours of practicum. Similarly, a 4 –credit course with 3- credits assigned for lectures and one credit for tutorial shall have three 1-hour lectures per week and one 1-hour tutorial per week. In a semester of 15 weeks duration, a four-credit course is equivalent to 45 hours of lectures and 15 hours of tutorials.

Experiential learning credit is equal to 3-hour duration per week. For example, 1 credit for experiential learning will mean 45 hours of learning. The credits assigned to the course is indicated as L:T:P format. For example, for a 4credit course format could be: 4:0:0 or 1:2:1 or 3:1:0 or 0:0:4etc.

e. **Programme:** An educational program leading to award of a degree, diploma or certificate. The following types of courses/activities constitute the programmes of study. Each of them will require a specific number of hours of teaching/guidance and laboratory/studio/workshop activities, field-based learning/projects, internships, and community engagement and service.

a. **Lecture courses:** Courses involving lectures relating to a field or discipline by an expert or qualified personnel in a field of learning, work/vocation, or professional practice.

b. **Tutorial courses:** Courses involving problem-solving and discussions relating to a field or discipline under the guidance of qualified personnel in a field of learning, work/vocation, or professional practice.

c. **Practicum or Laboratory work:** A course requiring students to participate in a project or practical or lab activity that applies previously learned/studied principles/theory related to the chosen field of learning, work/vocation, or professional practice under the supervision of an expert or qualified individual in the field of learning, work/vocation or professional practice.

d. **Seminar:** A course requiring students to participate in structured discussion/conversation or debate focused on assigned tasks/readings, current or

historical events, or shared experiences guided or led by an expert or qualified personnel in a field of learning, work/vocation, or professional practice.

e. **Experiential learning activities:** Field project work / Day out learning activities etc are considered as experiential activities.

f. **Grade Point:** It is a numerical weight allotted to each letter grade on a 10-point scale.

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

h. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters: O, A+, A, B+, B, C, P, F, AB.

i. **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 secured 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.

j. **Semester Grade Point Average (SGPA):** It is a measure of performance of work done in a semester. It is 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.

k. **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.

l. **Academic Bank Account:** Means an individual account with the Academic Bank of Credits opened and operated by a student, to which all academic credits earned by the student from course(s) of study are deposited, recognized, maintained,

accumulated, transferred, validated or redeemed for the purposes of the award of degree/diploma/certificates etc. by an awarding institution.

m. **Academic Bank of Credits:** Means the provision for innovative and interchangeable curricular structures to enable creative combinations of Courses or Programmes in Disciplines of study leading to Degree or Diploma or Post Graduate Diploma or Certificate of Study offering multiple entry and multiple exit facilities, while removing rigid curricular boundaries and creating new possibilities of life-long learning.

n. **Credit Accumulation:** Means the facility created by Academic Bank of Credits in the Academic Bank Account opened by students in order to transfer and consolidate the credits earned by them by undergoing Courses.

o. **Credit Redemption:** Means the process of commuting the accrued credits in the Academic Bank Account of the students maintained in ABC for the purpose of fulfilling the credits requirements for the award of Degrees or Diplomas or Certificates or Course work for Ph.D. programme etc., by the registered degree-awarding Higher Educational Institutions.

p. **Credit Transfer:** Means the mechanism by which the Registered Higher Educational Institutions are able to receive or provide prescribed credits to individual Academic Bank Accounts in adherence to the University Grants Commission credit norms for the 'course/s' undertaken by students enrolled in any Registered Higher Education Institution within India.

q. **Curricular components of the B.Sc. Dental Technology Programme:**

Courses in the programme may be of the following types:

a. Core Course
b. Skill Enhancement Courses (SEC)
c. Ability Enhancement Courses (AEC)
d. Value Added Courses (VAC)
e. Multidisciplinary Elective (ME)

a. **Core Course (CC):**A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course. This is the course which is the major disciple/subject having main focus and degree will be awarded in this discipline. This core course provides opportunity for our student to pursue in depth study of a particular subject or discipline hence, it is compulsorily studied by a student as a core requirement to complete the program of study in a said discipline.

b. **Skill Enhancement Course (SEC):** SEC courses are aimed at imparting practical skills, hands- on training, competencies etc to enhance the skill-based knowledge and thus the employability of the students.

c. **Ability Enhancement Courses (AEC):** These are the courses which aim to provide the students the competency in a modern Indian language (MIL) and in the English language with special emphasis on language and the communication skills. The courses aim at enabling the students to acquire and demonstrate the core linguistic skills, including critical reading and expository and academic skills, that helps students articulate their arguments and present their thinking clearly and coherently and recognize the importance of language as a mediator of knowledge and identity. The courses will also emphasize the development and enhancement of skills such a communication, and the ability to participate/ conduct discussion and debate.

d. **Value Added Courses (VAC):** These are the courses relating to understanding India, environmental science/ education, Health and Wellness etc..

   i. **Constitution of India:** The course aims at enabling the students at acquire and demonstrate the knowledge and understanding of contemporary India with its historical perspective, the basic framework of the goals and policies of National development, and the constitutional obligations with special emphasis on constitutional values and fundamental rights and duties.

   ii. **Environmental Studies:** The course aims to equip the students with the ability to apply the acquired knowledge, skills, attitudes, and values require to take

appropriate actions for mitigating the effects of environmental degradation, climate change, and pollution, effective waste management, conservation of biological diversity, management of biological resources, forest and wild life conservation, and sustainable development and living.

iii. **Human Rights & Gender equity:** The Course emphasis understanding social justice issues and roles of human rights in promoting equitable society including international, national perspective, contemporary issues with this holistic coverage and relevance to today's world.

iv. **Medical Ethics:** The course deals with ethics involving fundamental and moral issues related to decision making while performing professional practice. It guides the students in systematic and rational way of working through dilemmas and to determine the best course of action in their field of practice.

v. **Basic Knowledge in Computers and medical record management:** Course aims to prepares the students with the ability to operate and manage the windows operating system and also understand the application of the contemporary protocols in respect of compiling medical and dental records.

e. **Multidisciplinary Electives (ME):** These courses are intended to broaden the intellectual experience and form part of liberal arts and science education. Students are not allowed to choose or repeat courses already undergone at the higher secondary level (Twelfth class). The courses relating to any of the broad discipline given below will come under this category.

i. **Natural and Physical Sciences:** Students can choose basic courses from disciplines such as natural science, for example, Biology, Botany, Zoology, Biotechnology, Biochemistry, Chemistry, Physics, Biophysics, Astronomy and Astrophysics, Earth and Environmental sciences, etc.

ii. **Mathematics, Statistics and computer applications:** Courses under this category will facilitate the students to use and apply tools and techniques in

their major and minor disciplines. The course may include training in programming software like python among others and application software like STATA, SPSS, TALLY, etc. Basic courses under this category will be helpful; for science and social science in data analysis and the application of quantitative tools.

iii. **Library, Information, and Media Sciences:** Courses from this category will help the students to understand the recent developments in information and media science (journalism, Mass Media, and Communication)

iv. **Commerce and Management:** Courses include business management, accountancy, financial institutions, Fintech, etc.,

v. **Humanities and Social Sciences:** The courses relating to Social sciences, for example, Anthropology, Communication and Media, Economics, History, Linguistics, Political science, Psychology, Social work, Sociology, etc. will enable students to understand the individuals and their social behavior, society and nation. Students be introduced to survey methodology and available large – scale databases for India. The courses under humanities include for example, Archeology, History, Comparative Literature, Arts and Creative Expressions, Creative writing and literature, language(s), philosophy etc., and interdisciplinary courses relating to humanities. The list of courses that can include interdisciplinary subjects such as cognitive science, environmental science, gender studies, global environment and health, international relations, political economy and development, sustainable development, Women's and gender studies, etc. will be useful to understand society.

The Multidisciplinary elective offered by Yenepoya (Deemed to be) University includes:

i. **First Aid and Basic Life Support (BLS):** This Course deals with training the students to be a first responder when there are medical or traumatic emergencies.

ii. **Yoga:** The course develop a comprehensive understanding of yoga, including its history, various schools, practices, and their application in daily life, while also recognizing its potential for personal well-being, professional growth, and promoting positive health.

iii. **Vermi-technology:** This category of course will help students to gain skills in using worms to convert decomposing food waste into nutrient-rich fertilizer in simple, inexpensive and energy efficient way.

iv. **Positive Psychology:** The course will enable students to enrich themselves to thrive on the belief that people want to lead meaningful and fulfilling lives, cultivate what is best within them, and enhance their experiences of love, work, and play.

v. **National Service Scheme (NSS):** Students can choose NSS to understand the basic concept of NSS, to identify the needs and problems of the community in which they work and to gain skills in mobilizing community participation.

vi. **Lifestyle Management:** This course will help students to learn to achieve health goals through lifestyle and behavior adjustments by creating healthy habits as well as stress management.

vii. **Youth Red Cross:** The course deals with providing knowledge on Youth Red Cross volunteer ship and identifying the role of youth in humanitarian service. It also enables youth to promote national and international understanding by using international link of the movement.

viii. **Jeevan Kaushal:** University grant commission identified 4 modules on life skills (Jeevan Kaushal), the skills that required through our life. Jeevan Kaushal courses such as Communication skills, Professional Skills, Leadership and Management skills and Universal Human Values which will help students in developing personal competencies that helps to deal with challenges of life

effectively thereby realizing his/her infinite potential as a human being.

ix. **Self – learning course:** In accordance with the UGC (Credit Framework for Online Learning Courses through SWAYAM) Regulation, 2021, New Delhi, dated 25th March 2021, and reference No.F.1-100/2016 (MOOCs/e-content), students are encouraged to augment their learning experience by opting for Massive Open Online Courses (MOOCs), Study Webs of Active Learning for Young Aspiring Minds (SWAYAM), and Coursera courses as part of the multidisciplinary elective.

Yenepoya (Deemed to be University) will adhere to UGC regulations governing MOOCs/SWAYAM/ Coursera courses, incorporating amendments as communicated by UGC over time. To facilitate the seamless completion of chosen courses, the department will appoint a designated course coordinator. The coordinator will guide and support students throughout the duration of the selected online courses.

The evaluation process will adhere to predefined norms and parameters, which will be communicated in the course overview at the time of offering.

In COURSERA, the assessment are multifaceted and include quizzes or tests at the conclusion of each module, assignments or projects demonstrating the practical application of concepts, active participation in discussion forums, and peer-reviewed assessments. The culmination of each course involves final quizzes or capstone projects tailored to the course's content. Upon successful completion, students receive an online certificate, Yenepoya (Deemed to be University) will integrate the acquired credits into the student's official marks sheet.

In SWAYAM, Assessment will include formative continuous online assessments and end-of-course proctored exams, all of which are mandatory for successful completion by the student. Yenepoya (Deemed to be University) will integrate the marks or grade achieved by the student, conveyed by the Host Institution through the PI of the SWAYAM course, into the student's official marks sheet. These marks contribute to the final award of the degree conferred by the University.

3 Eligibility for Admissions:

To be eligible for admission in B. Sc Dental technology, a candidate should have passed two-years Pre-University examination/ Pre-Degree examination/ two years after ten years of schooling or its equivalent as recognized by the Yenepoya (Deemed to be) University .

Candidate needs to secure 40% or above marks in the qualifying examination to be eligible for admission. For SC/ST/OBC candidates minimum marks required in the qualifying exam are 35% marks. Vocational higher secondary education course conducted by Vocational Higher Secondary Education, government of Kerala, is considered equivalent to PUC (10+2) examinations of Government of Karnataka Pre-University Course.

4 Duration of the Program

The duration of the programme shall extend over 6 semesters (three academic years) each semester comprising minimum of 15 weeks with the minimum of 90 actual working days of instruction in each semester. The successful completion of the Undergraduate program will lead to Bachelor's degree in Dental Technology (B.Sc. DT).

5 Maximum Period for Completion of Programme:

A candidate shall complete six semesters (Three Years) programme within Six years from the date of admission. Hence, the maximum period for completion of the programme is six years.

6 Aim of the program

The graduate will be prepared to: Demonstrate the breadth of knowledge in the principals of restorative dental prosthesis and dental sciences. Demonstrate proficiency in the technical competency skills necessary to perform at or beyond an entry-level position in a dental laboratory. Select and utilize specified materials in the construction of dental prostheses, recognizing the materials limitations and advantages. Work and communicate effectively as part of an interdisciplinary health care team. Design and construct dental prostheses using current technologies and materials.

7 Outcome of the Program

Upon successful completion of the Programme, students will develop a broad knowledge in the field of dental technology and fabrication of various dental prosthesis.

In particular they will:

PO 1. Able to Perform his/her task independently

PO 2. Able to Perform detailed evaluation and execute the same

PO 3. Able to know the application, use and maintenance of the various appliances and machineries used

PO 4. Able to handle the various dental materials effectively

PO 5. Work independently or in concurrence with dental health care professional

Program Structure

	Broad category of course	**Hours / Credits**	**Course (Title)**
1.	**Discipline-Specific Courses**		
a)	Theory	**I Semester**	
		60 Hours / 4 Credits	Applied Physics, Chemistry & Mechanics
		30 Hours / 2 Credits	Applied Oral Anatomy
		60 Hours / 4 Credits	Dental Mechanics
		II Semester	
		30 Hours / 2 Credits	Applied Physics, Chemistry & Mechanics
		30 Hours / 2 Credits	Applied Oral Anatomy
		60 Hours / 4 Credits	Dental Mechanics (Complete and Partial Removable Prosthodontics Orthodontics, Maxillofacial Prosthetics)

	Broad category of course	Hours / Credits	Course (Title)
		III Semester	
		30 Hours / 2 Credits	Dental Mechanics- Paper I (cast Partial dentures)
		60 Hours / 4 Credits	Dental Mechanics Paper-II (Flexible Removable Prosthodontics & Introduction to Fixed Prosthodontics)
		IV Semester	
		30 Hours / 2 Credits	Dental materials & Metallurgy
		60 Hours / 4 Credits	Dental Mechanics (Fixed Prosthodontics)
		V Semester	
		15 Hours / 1 Credits	Analogue Prosthodontics
		15 Hours / 1 Credits	Digital Prosthodontics
		VI Semester - NA	
b)	Practical (SEC)*	**I Semester**	
c)			
d)			
e)		60 Hours/4 Credits	Applied Oral Anatomy
f)		120 Hours/8 Credits	Dental Mechanics
g)		30 Hours/2 Credits	Art & Pencil Sketching
h)		**II Semester**	
i)		60 Hours/4 Credits	Applied Oral Anatomy
j)		60/4	Applied Physics, Chemistry & Mechanics
k)		120 Hours/8 Credits	Dental Mechanics Skill (Complete Removable Prosthodontics)
l)		**III Semester**	
m)		144 Hours/6 Credits	Dental Mechanics- Cast Partial dentures
n)		90 Hours/6 Credits	Dental Mechanics- Flexible Partial dentures

	Broad category of course	Hours / Credits	Course (Title)
o)		**IV Semester**	
p)		300 Hours/10 Credits	Dental Mechanics – Fixed Prosthodontics
q)		60 Hours/4 Credits	Dental materials & Metallurgy
r)		**V Semester**	
		240 Hours/8 Credits	Digital Prosthodontics (CADCAM)
s)		240 Hours/8 Credits	Analogue Prosthodontics (Implant Prosthodontics)
t)		**VI Semester**	
u)		240 Hours / 8 Credits	Complete laboratory workflow
v)		240 Hours / 8 Credits	Project (Complete laboratory workflow
w)			
x)	Clinical (SEC)*	-	
y)	Simulation-based (SEC)*	-	-
2.	**Curriculum Enrichment Courses**		
a)	Field Visit	-	-
b)	Community Posting	-	-
c)	Industry / Clinical Internship	-	-
d)	Research Project	-	-
3.	**Electives**		
a)	Discipline-Specific Electives	-	-
b)	Interdisciplinary Courses	45 Hours / 3 Credits per year	Coursera/Swayam/NSS/Red cross
c)	Ability Enhancement Courses	**I Semester**	
		45 Hours / 3 Credits	English and Communication I

	Broad category of course	Hours / Credits	Course (Title)
	• *Soft skills development* • *Language and communication skill development* • *Analytical skill development* • *Personality and professional development* • *Employability skill development*	**II Semester**	
		45 Hours / 3 Credits	English and Communication II
		45 Hours / 3 Credits	Hindi
d)	Value Added Courses	**I Semester**	
		30 Hours / 2 Credits	Constitution of India
		II Semester	
		30 Hours / 2 Credits	Basic Computers and Medical Record Management
		III Semester	
		30 Hours / 2 Credits	Human Rights & Gender Equity
		IV Semester	
		30 Hours / 2 Credits	Environmental Science
		VI Semester	
		30 Hours / 2 Credits	Medical Ethics
	Total	**142 credits**	

8 Attendance:

Each course (theory, practical, clinical etc.) shall be treated as an independent unit for the purpose of attendance. Candidates having minimum 80% attendance in each of the Courses can only qualify to appear for the Semester End Examination. The Candidates with less than 80% of attendance shall be required to repeat that Course by attending the semester.

There shall be no provision for condonation of shortage of attendance.

For SWAYAM/MOOC/NPTEL it shall be as per the regulations governing the courses of implementing authority.

The HOD/Course Coordinator through the Dean of Faculties shall announce the names of the candidates who will not be eligible to take the Semester End- Examinations (SEE) in the various courses and send a copy of the same to the Controller of Examinations (COE) Office. Registrations of such candidates for those courses shall be treated as cancelled.

10.Teaching Learning Method

Teaching–Learning Method	**Courses**
Experiential learning	1.Dental Mechanics: **Hands-on practice**: Lab work and simulations that allow students to directly engage with dental materials, tools, and equipment. For example, working on dental impressions, creating dental prostheses, or studying the biomechanics of the jaw. **Clinical attachments**: Shadowing professionals in real dental settings. **Workshops**: Practical workshops in dental mechanics, material testing, and anatomy applications.
Integrated/Inter-disciplinary learning	**Applied Physics, Applied Chemistry & Mechanics** could integrate with **Dental Materials & Metallurgy**, where students understand the chemical properties of materials and how they behave under mechanical stress in the mouth. **Applied Oral Anatomy** could be integrated with **Dental Mechanics** when learning about how dental devices fit the individual patient's anatomy. The use of **computers and medical**

Teaching–Learning Method	Courses
	record management could be cross-disciplined with the **patient-centric** approach, using patient data to drive treatment decisions.
Participatory learning	1. First Aid and Basic Life Support (BLS) 2. Yoga 3. Vermitechnology 4. NSS 5. Youth Red Cros 6. Jeevan Kaushal
Problem-solving methodologies	**Critical thinking and application**: Incorporate case studies where students are presented with complex dental problems (e.g., unusual tooth anatomy, rare material failures) and tasked with diagnosing the issue and proposing a solution. Problem-solving exercises could also involve the development of new dental products or methods for improving existing procedures.
Self-directed learning	1. SWAYAM 2. Coursera Encourage students to pursue certifications or courses related to dental technology through these platforms to broaden their knowledge and skill set.
Patient-centric and Evidence-based	**Evidence-Based Practices**:

Teaching–Learning Method	Courses
learning	Discussions and case studies where students examine recent dental research and explore how it applies to real-world situations. **Patient-Centered Care**: Encouraging students to understand the patient's needs, concerns, and comfort. They could practice empathy by interacting with simulated patients or real patients under supervision.
The Humanities	Human Rights and Gender Equity
Project-based learning	**Practical Projects**: Students could design and create a complete dental prosthetic (like crowns, bridges, or dentures) from start to finish.
Role-play	**Simulated Patient Interactions**: Role-play exercises could involve scenarios where students must communicate effectively with doctors, understand what best they want for the patient. This can include scenarios like a patient requiring a dental implant or explaining the use of dental materials in restorations.
Team-work	**Collaborative Assignments**: In a dental laboratory, students can work in teams to create dental prostheses, with each member contributing to different parts of the process. Teamwork is essential as dentists, dental technologists, and assistants work together in a clinical

Teaching–Learning Method	Courses
	setting.
Reflective writing	Reflective writing can also be used to document the training they undergo.
Any other	Nil

9 Scheme of Examination

Evaluation of a course shall be done based on continuous internal assessment (CIA) mode followed by Semester End University Examination (SEE) for each core, SEC, AEC & VAC. The evaluation of Multidisciplinary elective offered by Yenepoya (Deemed to be) University shall be done based on formative assessment.

The components of CIA (Continuous Internal Assessment) may include sessional tests, Seminar, Assignment/ Social involvement and other activities as determined by the respective specialty.

There shall be examinations at the end of each semester ordinarily during February/March for odd semesters and during August/September for even semesters.

The SEE duration shall be 60 minutes for 25 marks paper and 120 minutes for 50 mark paper.

The various Formative assessment methods include Assignments, reports, quizzes…

a. Examination structure:

The Examination structure shall vary depending on the course, however, broadly divided as follows:

Examination/Assessment	Core/SEC/AEC(English)	AEC Kannada) /VAC
Continuous Internal Assessment	50 Marks	25 Marks
Semester End Examination	50 Marks	25 Marks
Total	100 Marks	50 Marks

b. Multidisciplinary Elective

Multidisciplinary elective will be assessed through continuous and comprehensive assessment throughout the Semester (50 Marks)

i. Evaluation and Certification of online courses:

Evaluation will be based on predefined norms and parameters and announced in the overview of the Course at the time of offering the course. Formative continuous online assessments and end of course proctored exams shall be completed by the student.

The certificate obtained shall be submitted to the college office which will be communicated to the office of the Controller of Examinations of Yenepoya (Deemed to be University).

The Yenepoya (Deemed to be) University will give the equivalent credit weightage to the students for the credits earned through online learning courses through MOOCS/Coursera as per the credit plan of the program.

ii. Credit Mobility of Online Courses:

The Yenepoya (Deemed to be University) will give the equivalent credit weightage to the students for the credits earned through online learning courses as per the credit plan of the program.

In case a student fails to complete the online course he/ she may be allowed to complete the course requirements by registering for another online course in subsequent semester or opt for a course offered at this Yenepoya (Deemed to be University).

The elective course offered by the Yenepoya (Deemed to be University) shall be restricted to a maximum of 3 credits.

A candidate shall compulsorily complete total 9 Credits of Multidisciplinary courses.

These courses shall be selected either from the Generic Electives offered by the Yenepoya (Deemed to be) university or from the SWAYAM/Coursera courses. A Candidate shall have freedom to choose the courses of once own choice and learn at their own pace but, require to complete minimum 3 credits before second semester, 6 credits before fourth semester and 9

credits before sixth semester end examination.

A candidate who is desirous to add more credits shall be permitted to do so during the academic duration. Extra credits earned by a candidate shall be included in the marks card on submission of course completion certificate. However, it shall not be considered for awarding the Grade in the UG programme.

c. Parameters for Continuous Internal Assessment CIA

Internal Assessment Components	Core/SEC/AEC(English)	AEC(Kannada) /VAC
Internal Assessment tests	20	10
Assignment	10	05
Continuous and Comprehensive assessment	20	10
Total Marks	**50**	**25**

10.4 Assessment Methods

1	Quiz	6	Role Play
2	Group Discussion	7	Peer to Peer assessment
3	Open Book Exam	8	Mind Mapping
4	Think-Pair-Share	9	Minute paper
5	Presentations	10	Case Study

10.5Question Paper Pattern for Core course (Internal Assessment & Semester End Examination)

	MAXIMUM MARKS = 50				Duration
Type of question	**Number of questions**	**To be Answered**	**Marks for each question**	**Total**	120 minutes
LONG ESSAY TYPE	02	01	10	10	
SHORT ESSAY TYPE	07	05	04	20	
SHORT ANSWERS	12	10	02	20	
			Total	**50**	

	MAXIMUM MARKS = 50				Duration
PART A					
Type of question	**Number of questions**	**To be Answered**	**Marks for each question**	**Total**	120 Minutes
LONG ESSAY TYPE	02	01	10	10	
SHORT ESSAY TYPE	02	01	05	05	
SHORT ANSWERS	06	05	2	10	
PART B					
LONG ESSAY TYPE	02	01	10	10	
SHORT ESSAY TYPE	02	01	05	05	
SHORT ANSWERS	06	05	2	10	
			Total	**50**	

10.6Question Paper Pattern for Ability Enhancement Compulsory (AEC) Course

	MAXIMUM MARKS = 25				Duration
Type of question	**Number of questions**	**To be Answered**	**Marks for each question**	**Total**	
ESSAY	05	03	05	15	60 minutes
SHORT ANSWERS	07	05	02	10	
			Total	**25**	

10.7Question Paper Pattern for Value Added (VAC) Course

	SUBJECTS HAVING MAXIMUM MARKS = 25				Duration
Type of question	**Number of questions**	**To be Answered**	**Marks for each question**	**Total**	
ESSAY	05	03	05	15	60 minutes
SHORT ANSWERS	07	05	02	10	
			Total	**25**	

10.8 Practical examination (SEC)

SI.NO	Components	Marks
1	Skill Assessment	60
2	OSPE Stations	20
3	Viva Voce	20
Total Marks		100

PARTICULARS OF PRACTICAL, VIVA-VOCE

Practical examination will be aimed at examination of clinical skills and competence of the candidates for undertaking independent work as a specialist.

Viva- Voce examination shall aim at assessing depth of knowledge, logical reasoning, confidence &oral communication skills.

OSCE/OSPE- shall have minimum of 4 stations.

10 Eligibility to appear for University Examination

Each course (theory, practical) shall be treated as an independent unit for the purpose of attendance. Candidates having minimum 80% attendance in each of the Courses can only qualify to appear for the Semester End Examination. The Candidates with less than 80% of attendance shall be required to repeat that Course by attending the semester.

There shall be no provision for condonation of shortage of attendance.

Evaluation of a course shall be done based on continuous internal assessment (CIA) mode followed by Semester End University Examination (SEE) for each core, SEC, AEC & VAC. The evaluation of Multidisciplinary elective offered by Yenepoya (Deemed to be) University shall be done based on formative assessment.

The components of CIA (Continuous Internal Assessment) may include sessional tests, , Assignment/ Social involvement and other activities as determined by the respective speciality.

The marks for CIA shall be 50% and SEE shall be 50%.

The minimum marks for CIA shall be 40% and SEE shall be 40% for a pass, but the minimum marks for pass per course shall be 50% CIA and SEE added together.

The HOD/Programme Coordinator through the Dean of Faculties shall announce the names of the candidates who will not be eligible to take the Semester End- Examinations (SEE) in the various courses and send a copy of the same to the Controller of Examinations (COE) Office. Registrations of such candidates for those courses shall be treated as cancelled.

11 Criteria for Passing

The marks for CIA shall be 50% and SEE shall be 50%.

The minimum marks for CIA shall be 40% and SEE shall be 40% for a pass, but the minimum

marks for pass per course shall be 50% CIA and SEE added together.

A candidate shall be declared to have passed the UG programme if he/she secures at least CGPA of 5.0 (Course Alpha-Sign Grade P) in the aggregate of both Internal Continuous Assessment and Semester End Examination.

The results of the candidates who have passed the sixth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.

12 Grading and Classifications

The results of successful candidates at the end of each semester shall be declared in terms of Grade Point Average (GPA) and Alpha-Sign Grade. The results at the end of the sixth semester shall be classified on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the six semesters and the corresponding overall alpha sign grade.

a. Letter Grades and Grade Points:

i. The Deemed to be University would be following the absolute grading system, where the marks are compounded to grades based on pre-determined class intervals.

ii. The UGC recommended 10-point grading system with the following letter grades are given below:

Letter Grade	Marks	Grade Point
O (Outstanding)	90-100	10
A+ (Excellent)	80-89	9
A (Very Good)	70-79	8
B+ (Good)	60-69	7
B(Above Average)	55-59	6
P (Pass)	50-55	5
F (Fail)/ RA (Reappear)	Below 50	0
Ab (Absent)		0

*The Marks with 0.5 shall be rounded up to the next whole number.

iii. A student obtaining Grade RA/ Ab shall be considered failed and will be required to reappear in the end semester examination.

b. The Semester Grade Point Average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester.

For example, if a student takes five (Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student's grade points in these courses are G1, G2, G3, G4 and G5, respectively, and then students' SGPA is equal to:

$$SGPA = \frac{C1G1 + C2G2 + C3G3 + C4G4 + C5G5}{C1 + C2 + C3 + C4 + C5}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the F and ABS grade awarded in that semester. For example if a student has a F or ABS grade in program 4, the SGPA shall then be computed as:

$$SGPA = \frac{C1G1 + C2G2 + C3G3 + C4 * ZERO + C5G5}{C1 + C2 + C3 + C4 + C5}$$

c. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VI semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VI semesters and their courses. The CGPA shall reflect the failed status in case of F grade(s), till the course(s) is/are passed. When the program(s) is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$C1S1+C2S2+C3S3+C4S4+C5S5+C6S6$$

CGPA= $\frac{}{C1+C2+ C3+ C4+ C5+C6}$

where C1, C2, C3,…. is the total number of credits for semester I,II,III,…. and S1, S2, S3….is the SGPA of semester I,II,III,…..

Calculation of GPA & CGPA: An example (1st semester)

Program Code	Course	Credits (a)	Grade Obtained	Credit Value (b)	Grade Points (axb)
	Course 1	4	B	8	32
	Course 2	4	B	8	32
	Course 3	4	O	10	40
	Course 4	2	C	7	14
	Course 5	2	A	9	18
	Total	**16**	**-**	**-**	**136**

1st Semester GPA = Total Grade Points / Total Credits = 136 / 16 = 8.5

2nd Semester GPA = 7 with respect to 18 Credits

Then 1st Year CGPA = (8.5 x 16) + (7 x 18) / 16 + 18 = 7.7

13 Declaration of Class

Candidates who obtain a minimum of 75% of the marks in any paper under examination shall be declared to have passed with distinction in that particular subject provided he/she passes all subjects of examination in the first attempt.

14 Any other information (Progression Criteria, Re-entry after break of the study, Evaluation of Answer Scripts, Internship)

15.1 Progression Criteria

The students are allowed to carry over any number of courses till sixth semester. But student is eligible to appear for the End semester exam of sixth semester if he/she has cleared all the Courses both Core, AEC, SEC & VAC of first, second, third & fourth semesters. If student has any pending course of first to fourth semesters, he/she is not eligible to appear for the end semester exam of the sixth semester. However, Fifth semester courses are allowed to club

with sixth semester end examination. But, all the Core, AEC, SEC & VAC of first to fourth semester should be completed to be eligible for sixth semester End Semester Examination.

Candidate should clear all Courses (Core, AEC, SEC, VAC & ME) of all the semester, to be eligible to start the one year of mandatory internship.

A fail in any one Course will mean the candidate has to reappear for the exam in that Course only.

A candidate who passes the semester examinations in parts is eligible for only CGPA and letter grade but not for award/medal from the University.

15.2 Re-Entry after Break of the study:

Candidates admitted to a program abstaining for more than 3 months must seek readmission into the appropriate semester.

The candidate shall follow the syllabus in vogue (currently approved/is being followed) for the program.

All re-admissions of candidates are subject to the approval of the University.

15.3 Evaluation of Answer Scripts

Each theory examination shall have single evaluation. There shall be provision for re-evaluation on a payment of a fee. An external examiner shall value the paper, if the difference is more than 15% of previous marks the answer script shall be sent for third evaluation. In such an event, the average of the best two out of the three scores will be taken as the final score.

Practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner.

16. Syllabus

SEMESTER I

APPLIED PHYSICS, CHEMISTRY & MECHANICS (DENTAL MATERIALS)

Course: Core

Credits: 04 **Number of hours: 60**

- **Course Outcomes:**

At the end of the course, students will be able to:

CO1: The various dental materials used in the dental laboratory, the properties, handling, and manipulation of the materials used.
CO2: The various equipments used in laboratory and their functioning.

CO3: The practical application of the knowledge gained in the laboratory materials in the construction of dental prostheses

CO4: Should be able to chart tooth shade and tooth translucency in a systematic manner.

- **COURSE CONTENT:**

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	TYPES OF QUESTION
Unit I	20hrs	**Mechanics in Physics and Chemistry** 1.1Physical properties of tooth 1.2 Mechanical Properties. 1.3 ADA specifications, 1.4 Strengths of materials 1.5 Surface hardness- testing, 1.6 Rheological properties 1.7 Thermal properties	√	√		5%	SE, SA
Unit II	20hrs	**Gypsum and gypsum products** 2.1 Composition, Properties, Uses, Advantages & Disadvantages 2.2 Manufacturing methods, 2.3 Setting action, Setting times, Factors Affecting setting time 2.4 Model, Die materials	√	√		25%	LE, SE, SA
Unit III	20hrs	**Investment Materials** 3.1Introduction 3.2Gypsum-bonded investments, 3.3Phosphate bonded investments 3.4Ethyl Silicate bonded investments 3.5 Other investment materials	√	√		25%	LE, SE, SA
Unit IV	10hrs	**Impression Materials** 4.1 Introduction 4.2 Hydrocolloids 4.3 Elastomers	√	√		15%	LE, SE, SA
Unit V	10hrs	**Denture Base Materials** 5.1 introduction, classification 5.2 techniques	√	√		20%	LE, SE, SA

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	TYPES OF QUESTION
Unit VI	10hrs	6.1 Dental waxes	√	√		10%	LE, SE, SA

- **Recommended books:**

1. Kenneth J Anusavice. Philips' Science of Dental Materials, Edition 13. Philadelphia: WB Saunders. 2021
2. Shama Bhat. Science of Dental Materials with Clinical Applications. Edition 3. CBS Publishers and Distributors,2019
3. Herbert T. Shillingburg. Fundamentals Of Fixed Prosthodontics 4th edition. Quintessence Publishing Co. 2012
4. Alvaro Della Bona. Color and Appearance in Dentistry. 1st Edition. Springer Nature Switzerland A G. 2020

APPLIED ORAL ANATOMY

Course type: Core

Credits: 4 **Duration: 30+60 (practical) hours**

- **Course Outcomes:**

At the end of the course, students will be able to:

- CO1. Competent to apply anatomical knowledge to perform laboratory technical procedural skills
- CO2. Basic principles and procedures involved and their application
- CO3. Apply learned theory of biology, biomechanics, chemistry and anatomy in all relevant aspects of dental technology practice.

- **COURSE CONTENT:**

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	TYPE OF QUESTIONS
Unit I	5hrs	Elementary anatomy and structure of denture/bearing area	√	√		20%	SE, SA

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	TYPE OF QUESTIONS
Unit II	5hrs	Human dentition and occlusion a. Development of occlusion. b. Dental arch form. c. Compensating curves of dental arches. d. Angulations of individual teeth in relation to various planes. e. Functional form of the teeth at their incisal and occlusal thirds. f. Facial relations of each tooth in one arch to its antagonist or antagonists in the opposing arch in centric occlusion. g. Occlusal contact and interscusp relations of all the teeth of one arch with those in the opposing arch in centric occlusion. h. Occlusal contact and intercusprelations of all the teeth during the various functional mandibular movements	√	√		20%	LE, SE, SA
Unit III	20hrs	Functions of teeth and morphology of Crowns of teeth Morphology of permanent teeth 1.Maxillary central incisor and lateral incisor and Mandibular central and lateral incisor	√	√		10%	LE, SE, SA
Unit IV	60hrs	Tooth Carving in wax and plaster. (Crown and root, scale and enlarged models). Morphological differences between incisors, premolars and molars of same arch.	√	√		50%	LE, SE, SA

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	TYPE OF QUESTIONS
		Morphological differences between maxillary and mandibular. incisors, canines, premolars and molars of the opposite arch.					

- **Recommended Books**

1. Stanley J Nelson. Wheelers' Dental anatomy, Physiology and Occlusion. Edition 6. WB Saunders, 1984.

DENTAL MECHANICS (COMPLETE REMOVABLE PROSTHODONTICS)

Course: Core

Credits: 4 **No of Hours: 60 Hours**

- **Course Outcomes:**

At the end of the course, students will be able to:

CO1. Employ safe and aseptic procedures when using and maintaining equipment and materials associated with the dental technology profession.

CO2. Apply learned theory of dental materials and techniques in all relevant aspects of dental technology practice.

CO3. Accurately locate key anatomical landmarks associated in fabrication of complete denture

O4. Select and utilize specified materials, techniques and instruments in the construction of various dental prostheses, recognizing their limitations and advantages

- **COURSE CONTENT:**

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	TYPE OF QUESTIONS
Unit I	**10**hrs	**Introduction** 1.1 Introduction to Prosthodontics	√	√		10%	SA ,SE, LE
Unit II	10 hrs	**Anatomical Landmarks** 2.1 Anatomical landmarks of the maxilla 2.2 Anatomical landmarks of the mandible	√	√		25%	SA, SE , LE
Unit III	10hrs	**Impression Preservation And Casts** 3.1 Primary impressions and casts 3.2 Spacers and Special trays 3.3 Secondary impressions and cast	√			25%	SA SE LE
Unit IV	5 hrs	**Sterilization And Infection Control Measures** 4.1 Sterilization and disinfection 4.2 Infection control in prosthodontics	√			10%	SE,SA,LE

- **Recommended Books**

1. Robert M. Morrow, Kenneth D Rudd. Dental Laboratory Procedures: Volume I Complete Dentures. Elsevier, 2016
2. Charles M Heartwell. Syllabus of complete dentures: Saunders, 1996

DENTAL MECHANICS SKILLS (COMPLETE REMOVABLE PROSTHODONTICS)

Course: SEC
Credits: 04 **Number of hours: 120**

- **Course Outcomes**

CO1. Perform hands-on techniques related to each step in the laboratory process of prerequisites to complete removable denture fabrication parallel to the various clinical steps.

➢ **Course Content**

- Preparing of primary cast
- Spacer designs and fabrication of special trays
- Preparing of master cast
- Block out and fabrication of denture base,
- Fabrication of occlusal rims
- Articulation

➢ Recommended books

1. Robert M. Morrow, Kenneth D Rudd. Dental Laboratory Procedures: Volume I Complete Dentures. Elsevier, 2016
2. Charles M Heartwell. Syllabus of complete dentures: Saunders, 1996

ENGLISH AND COMMUNICATION –I

Course: AEC

Credits: 4 **No of Hours: 60 Hours**

➢ **Course Outcomes:**

At the end of the course, students will be able to:

CO1: The course is designed to enable students to enhance their ability to speak and write English required for effective communication in their professional work.

CO2: Students will practice their skills in verbal and written English during clinical and classroom experience.

CO3: To confront various circumstances demanding communication skills with prowess & expertise

➢ **Course Content:**

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Types Of Questions

Unit I	8hrs	**Unit 1: PHONETICS** 1.1 Brief introduction to the history of English Language & Phonetics 1.2 Vowels, Diphthongs, Consonants 1.3 Pronouncing the words phonemically and transcribing them into Phonetics 1.4 Native pronunciation of English words	√			15%	SA
Unit II	2hrs	**Unit – 2: Difference between American & British English** 2.1 Difference with regards to the Vocabulary, Accent, Grammar & Spellings. 2.2 Syllables & Word Stress	√			5%	SA
Unit III	20hrs	**Unit– 3: Grammatical Skills** 3.1 Verb Tenses 3.2 Appropriate Use of Prepositions 3.3 Articles 3.4 Subject Verb Agreement 3.5 Appropriate usage of Punctuation and Capitalization 3.6 Modals 3.7 Transformation of Sentence structures 3.8Active Passive Voice 3.9Reporting skills 3.10Question Tags 3.11Homonyms & Homophones 3.12Degrees of Comparison 3.13One-word Substitution 3.14 Linkers	√			30%	LE
Unit IV	9hrs	**Unit – 4: Written Communication Skills** 4.1Drafting of formal letters 4.2Email drafts – Do's and don'ts in professional emails. 4.3Article and Essay writing 4.4Notice writing 4.5Speech writing 4.6News Report writing 4.7Dialogue writing	√			15%	LE, SE
Unit V	12hrs	**Unit 5: Oral Communication Skills** 5.1Way of Communicating when we meet people.	√			20%	

		• Face to Face Communication • Tone of voice • Body Language 5.2Small Talk 5.3Elevator Speech 5.4Etiquettes of Phone Conversation & Phone role play 5.5Basics of meeting online 5.6Video conference role play 5.7Group discussion 5.8First Impressions 5.9Interview Skills • Purpose of an Interview • Do's & Don'ts of an Interview					SA
Unit VI	9hrs	**Unit 6: Presentation Skills** 6.1Debating 6.2Speech Relay 6.3Presentations		√		15%	SA

❖ **LE-** Long Essay**, SE-** Short Essay**, SA-** Short Answer

1. **Recommended Books:**

- Murphy Raymond, English Grammar in Use, Cambridge University. 2012.
- Green David, Contemporary English Grammar Structures and Composition, Macmillan Publishers. 2015.

Constitution of India

Course: VAC

Credits: 2 **No of Hours: 30 Hours**

➢ **Course Outcome:**

At the end of this course, students will gain knowledge on

CO1: This course is to keep the students abreast with the knowledge of the Constitution of India.

CO2: To make the students understand the importance of human rights as citizens of India.

➢ **COURSE CONTENT:**

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
Unit I	5hrs	**Indian Constitution** • Meaning and Importance of Constitution • The Constituent Assembly • The Preamble • Salient Features of Constitution	√			**10%**	SE, SA
Unit II	3hrs	**Fundamental Rights and Directive Principles** • Meaning and Differences between Fundamental Rights and Directive Principles • Fundamental Rights • Rights Information Act Meaning ,importance of RTI 2005	√			20%	LE, SE, SA
Unit III	4hrs	**Union Government** • The President of India-Election ,Powers and Position • Prime Minister and Council of Ministers • Parliament – Loksabha	√			15%	LE, SE, SA

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
		,Rajyasabha- Organisations and Powers					
Unit IV	4hrs	**State Government** • The Governor • Chief Minister and Council of Ministers • State Legislature Vidhanasabha ,vidhanaParishad- Organisations and Powers	√			10%	SE, SA
Unit V	2hrs	**Federalism in India** • Meaning Federal and Unitary Features	√			10%	SE, SA
Unit VI	2hrs	**The Judiciary** • The Supreme Court-Organization ,Jurisdiction and Role • The High Court- Organization ,Jurisdiction and Role	√			10%	SE, SA
Unit VII	2hrs	**Electoral Process In India** • Election Commission – Organization ,Functions	√			10%	SE, SA
Unit	2hrs	**Local Governments**	√			5%	SE, SA

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
VIII		• Rural and Urban-Organization ,Powers and Functions					
Unit IX	3hrs	**Human Rights** • Human Rights-Meaning • Universal Declaration of Human Rights • Remedies against Violation of Human Rights in India	√			5%	LE, SE, SA
Unit X	3hrs	**Special Constitutional Provisions** • Special Rights created in the constitution for: Dalits, Backwards, Women and Children and the Religious and Linguistic Minorities. • Constitution and Sustainable Development in India • Minority Commission in India	√			5%	SE, SA

- **Recommended Books**

- Basu, D.D , Constitution of India, New Delhi Himalaya Publication ; 2001
- Dinesh Shelton, David P Stuart, International Human Rights in Nutshell. Thomas Burgenthel, West Nutshell Publisher; London; 2005.
- ParvathyAppaiah, Constitution of India, Mangalore Divya Deepa Publication; 2005
- ParvathyAppaiah, Human Rights. Divya Deepa Publication Mangalore; 2016
- RajRam. M, Constitution of India Himalaya Publication, New Delhi; 1999

ART & PENCIL SKETCHING

Course: SEC
Credits: 02 **Number of hours: 30**

➢ Course Outcomes:

On completion of the course, the students will be able to

CO1. Sharpen student's eye for detail

CO2.Apply the concepts and principles of art and sketching in professional development and create real life tooth replacements.

➢ Course Content:

- Introduction to basic drawing
- Object drawing
- Nature drawing
- Introduction to 2D design
- Introduction to 3D design
- Study of Human tooth

SEMESTER II

APPLIED PHYSICS, CHEMISTRY & MECHANICS (DENTAL MATERIALS)

Course: Core

Credits: 4 **No of Hours: 60 Hours**

Course Outcomes:

At the end of the course, students will be able to:

CO1. Student should have basic knowledge and understanding of luting agents used in dentistry.

CO2**.** Comprehend the composition of dental ceramics, processing methods and the influence of the properties.

CO3. Should develop skills in shade matching for natural teeth and restorations and ability to accurately match and communicate colour information for prosthetic restorations.

- **Course Content:**

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	
Unit I	10hrs	Dental Luting Cements 1.1 Introduction 1.2 classification	√			10%	LE, SE, SA
Unit II	10hrs	Dental Ceramics 2.1 introduction 2.2 Strengthening of porcelain 2.3 recent advances	√			30%	LE, SE, SA
Unit III	10 hrs	Color Science and Its Application in Dentistry		√		20%	SE, SA
Unit IV	10 hrs	Indirect restoration materials –Composite resin 4.1 definition, classification, composition and uses	√			10%	LE, SE, SA
Unit V	10 hrs	Instruments and equipment 5.1 Terms and definitions 5.2 Abrasive tools 5.3 Various abrasive and polishing agents 5.4 Dental burs		√		10%	SE, SA

- **LE-** Long Essay**, SE-** Short Essay**, SA-** Short Answer

- **Recommended Books**

1. Kenneth J Anusavice. Philips' Science of Dental Materials, Edition 13. Philadelphia: WB Saunders. 2021
2. Shama Bhat. Science of Dental Materials with Clinical Applications. Edition 3. CBS Publishers and Distributors,2019

APPLIED ORAL ANATOMY

Course: Core

Credits: 04 **Number of hours: 60**

- **Course Outcome:**

At the end of the course, students will be able to:

CO1: Competent to apply anatomical knowledge to perform laboratory technical procedural skills

CO2: Basic principles and procedures involved and their application

CO3: Apply learned theory of biology, biomechanics, chemistry and anatomy in all relevant aspects of dental technology practice.

- **COURSE CONTENT:**

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Types of Questions
Unit I	5hrs	Muscles of mastication and facial expression	√			20%	LE, SE, SA
Unit II	5hrs	Mastication deglutition and phonation	√	√		20%	LE, SE, SA

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Types of Questions
Unit III	10hrs	Movements of temporo-mandibular joint - Gross Anatomy and articulationMandibularposition and movements. - Histology. - Clinical considerations with special emphasis on Myofacial Pain Dysfunction Syndrome (MPDS)	√	√			SE
Unit IV	40hrs	Tooth Carving in wax and plaster. (Crown and root, scale and enlarged models). Morphological differences between incisors, premolars and molars of same arch. Morphological differences between maxillary and mandibular. incisors, canines, premolars and molars of the opposite arch.		√		25%	LE, SE, SA
Unit I	5hrs	Muscles of mastication and facial expression	√	√		20%	LE, SE, SA
Unit II	5hrs	Mastication deglutition and phonation	√	√		15%	SE, SA
Unit III	10hrs	Movements of temporo-mandibular joint - Gross Anatomy and articulationMandibularposition and movements. - Histology. - Clinical considerations with special emphasis on Myofacial Pain Dysfunction Syndrome (MPDS)	√	√		25%	LE, SE, SA

- **LE-** Long Essay**, SE-** Short Essay**, SA-** Short Answer

Recommended Books

1. Stanley J Nelson. Wheelers' Dental anatomy, Physiology and Occlusion. Edition 6. WB Saunders, 1984.

APPLIED ORAL ANATOMY

Course: SEC

Credits: 02 **No of Hours: 60 Hours**

- **Course Outcome:**

At the end of the course, students will be able to:

CO1: Competent to apply anatomical knowledge to perform laboratory technical procedural skills

CO2: Apply learned theory of biology, biomechanics and anatomy in wax pattern fabrication.

- **Course Content:**

  - Tooth Carving in wax and plaster. (Crown and root, scale and enlarged models).
  - Morphological differences between incisors, premolars and molars of same arch.
  - Morphological differences between maxillary and mandibular. Incisors, canines, premolars and molars of the opposite arch.

COMPLETE AND PARTIAL REMOVABLE PROSTHODONTICS, ORTHODONTICS, MAXILLOFACIAL PROSTHETICS)

Course: Core

Credits: 04 **Number of hours: 60**

- **Course Outcomes:**

CO1.Students should be able to identify different types of articificial teeth and acquire adequate knowledge regarding the arrangement of teeth for complete denture fabrication in class I, II and III relationship

CO 2.Should be able to acquire adequate knowledge on various occlusal concepts and schemes

CO 3. Should gain knowledge about special dentures like over dentures and immediate dentures

CO 4. Should gain knowledge about denture repair, relining, rebasing procedures, and fabrication of special dentures.

CO 5.Should gain knowledge on basic color concepts/ shade matching

CO 6. Should be able to prepare and classify casts of a partially edentulous model.

CO7. Select and utilize specified materials in the construction of complete dental prostheses,

recognizing the materials' limitations and advantages.

CO8. Should gain basic knowledge on metals and metal alloys used in CPD.

CO9. Should be able to describe and differentiate between various types of dental alloys commonly used in removable dental prosthetics.

CO10. Should be able handle wire bending.

CO11. Should be able to learn and understand the positioning of orthodontic wires.

CO12. Should be able understand and differentiate various types of clasps.

CO13. Should acquire adequate knowledge on various orthodontic & pediatric appliances including space maintainers.

CO14. Students should gain adequate knowledge about the materials used in the fabrication of maxillofacial prosthesis.

CO15. Students should gain adequate knowledge about the various techniques used in the fabrication of various types of obturators and maxillofacial prosthesis.

- **Course content :**

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type of questions

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type of questions
Unit I	5hrs	Prosthetic Occlusion 1.1 Complete denture occlusion	✓			**30%**	**LE, SE,SA**
Unit II	**10** hrs	Teeth Arrangement 2.1 Artificial teeth selection 2.2 Artificial Teeth arrangement	✓			**30%**	**LE, SE,SA**
Unit III	**10 hrs**	Denture Processing 3.1 Acrylisation compression Moulding 3.2 Acrylisation other techniques	✓			**20%**	**LE, SE,SA**
Unit IV	**5**hrs	Special Dentures 4.1 Immediate Dentures 4.2 Over denture	✓			**20%**	**LE, SE,SA**
Unit V	**10** hrs	Denture Repair 5.1 Relining , rebasing and repair	√			3%	SE,SA, LE
Unit VI	10 hrs	6.1 Kennedy's Classification	√			3%	SE,SA
Unit VII	10 hrs	Metals And Metal Alloys Used In RPD 7.1 Introduction to metal and metal alloys 7.2 selection of metals used in RPD	√			6%	SE,SA, LE
Unit VIII	**5**hrs	Basic Orthodontics 8.1 Introduction to materials used in orthodontics.				5%	SE

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type of questions
Unit IX	**5**hrs	Removable Orthodontic Appliance 9.1Introduction and general principles 9.2Clasp 9.3Labial bow 9.4 Retainers 9.5Springs 9.6Screw 9.7Removable occlusal appliance	✓ ✓	✓			SE,SA,
UnitX	**5** hrs	Pediatric Orthodontic Appliances 10.1 Introduction 10.2 Preventive appliances	✓				SE,SA,
Unit XI	**5**hrs	Appliances For Maxillary And Mandibular Defects 11.1Maxillofacial prosthesis. 11.2 Mandibular resection devices 11.3 Speech Aids 11.4 Facial prosthesis			√	10%	SE,SA

❖ **LE**- Long Essay**, SE**- Short Essay**, SA**- Short Answer

Recommended Books:

1. Robert M. Morrow, Kenneth D. Rudd. Dental Laboratory Procedures: Volume III Removable Partial Dentures. 1st Edition. Elsevier. 2016
2. Rodney D Phoenix, David R Cagna, Charles F deFreest. Stewart's Clinical Removable Partial Prosthodontics. 4th Edition. Quintessence Publishing Co.2014
3. Deepak NallaswamyVeeraiyan. Textbook of Prosthodontics. 2nd Edition. Jaypee Brothers Medical Publishers. 2017
4. Theodore Eliades, William A Brantley. Orthodontic Materials: Scientific & Clinical Aspects. 1st Edition. George ThiemeVerlag. 2001
5. S I Bhalajhi. Orthodontics the Art and Science. 8th Edition. Arya Medi Publishing House

Pvt.Ltd. 2022

6. Sidney Finn. Clinical Pedodontics . 4th Edition. W B Saunders Company. 1973
7. Braham, Raymond L. Textbook of Paediatric Dentistry. 2nd Edition. Lippincott Williams and Wilkins. 1985
8. SG Damle. Textbook of Paediatric dentistry. 5thEdition. Arya Medi Publishing House Pvt. Ltd. 2018
9. Laney, William R. Maxillofacial Prosthetics: Psg Pub. Co. 1st Edition,1979
10. Thomas Dean Taylor.Clinical maxillofacial Prosthetics:Quintessence Publishing Company, 2000

DENTAL MECHANICS SKILLS (COMPLETE REMOVABLE PROSTHODONTICS)

Course: Core

Credits: 4 **No of Hours :120** Hours

- **Course Outcome:**

CO1. Should acquire hands on experience on teeth arrangement in class I, II and III relationship.
CO2. Should be able to arrange teeth following various occlusal concepts.
CO3. Should acquire hands on experience in denture processing.
CO4. Should be able to repair, reline, rebase the dentures and also fabricate special dentures.
CO5. Should be able to fabricate various types of clasps, orthodontic & pediatric appliances including space maintainers.
CO6. Should be able to fabricate various types of maxillofacial prosthesis.

- **Course Content**

- Arrangement of teeth –I,II.III
- Denture processing
- Trimming polishing
- Denture repair
- Straightening of wires
- Making of Triangle, circle, UV
- Making of C- clasps, Addams clasp

- Labial bow(long and short)
- Z Spring, Finger spring
- Hawleys retainer
- Beggs retainer
- Anterior and Posterior Bite Plane
- Tongue crib
- Special tray fabrication for RPD
- Cast articulation teeth arrangement for RPD.

  Wax up, acrylization of RPD

BASIC COMPUTERS AND MEDICAL RECORDS MANAGEMENT

Course: VAC

Credits: 02 **Number of hours: 30Hours**

Course Objectives: Basic knowledge of computers **15 hrs**

Upon successful completion of this course, students will be able to:

- Operate and manage the Windows operating system effectively.
- Create and edit documents using Microsoft Word.
- Gain a basic understanding of the internet and email usage.

COURSE CONTENT: Basic knowledge of computers

SI No	Topic	Content	Teaching aids	Hrs. required	Activities Planned
1	Introduction to Computer	-Introduction -Characteristics of Computer -Block diagram of Computer -Generation of Computer -Computer languages.	LCD	2hrs	Lecture Group discussion
2	Introduction to data processing	Features of computers, advantages of using computers, getting data into / out of computers, role of computers, data processing, application areas of computers involved in data processing, common activities in processing, types of data processing, characteristics of information, hardware and software.	LCD	2hrs	

5	Introduction of windows	History,features,desktop,taskbar,icons on the desktop,operation with folder,creatingshortcuts,Operation with windows	LCD	1hrs	Lecture Group discussion
6	Introduction to MS-Word	Introduction,Components of a word window,creating document file,pagesetting&formatting the text,saving the document,spellchecking,printing the document,creating&editing of table.	LCD	2hrs	Lecture Group discussion
7	Introduction to Excel	-Introduction -About worksheet -Entering information -Saving workbooks&formatting -Printing the worksheet -Creating graphs	LCD	2hrs	Lecture Group discussion
8	Introduction to power-point	-Introduction -Creating and manipulatingpresentation,views,formatting and enhancing text,slide with graphs.	LCD	2hrs	Lecture Group discussion
10	Internet and email	-Uses	LCD	4hrs	Lecture Group discussion

COURSE COBJECTIVES: Medical records management 15 hrs

1. Demonstrate an understanding and application of the contemporary protocols in respect of compiling medical and dental records (both electronic and conventional)
2. Their contents and the details required
3. The disclosure and retention of the records

COURSE CONTENT: Medical records management

SI No	Topic	Content	Teaching aids	Hrs. required	Activities Planned

1	**INTRODUCTION TO RECORD MANAGEMENT**	Records, Registers, Forms Record-Keeping Principles Basic aspects of good record-keeping Merits and limitations of record keeping Various forms of record-keeping Electronic record keeping – benefits, challenges and security Latest trends in record maintenance	LCD	5hrs	Lecture Group discussion
2	**MEDICAL RECORDS**	Medical records – definition, Purpose, Users Types of medical records Inpatient medical records, Outpatient medical records Medicolegal case records Dental records including dental laboratory records Laboratory records Diagnostic records Electronic medical records Contents of medical records Record-keeping standards and regulations Ownership &Medicolegal aspects of medical records	LCD	5hrs	Lecture
3	**MEDICAL RECORD ORGANISTION**	Flow chart of function of Out – Patient record and IP records. Assembling & deficiency check Coding -ICD 10 & CPT. Indexing, Filing and Retrieving, Process of arranging medical records. Retention of MR.	LCD	5hrs	Lecture

		Preservation of MR. Problems associated with medical records.			

References:

1.Mogli. JD., Medical Records-Organisation& Management, Jaypee Brothers, N. Delhi, 2017
2.Prasantha Ghosh k. Office Management, Sultan Chand and sons, New Delhi, 1995
3.Francis CM & Mario C de Souza, Hospital Administration, 3rd Ed., Jaypee Brothers, N. Delhi, 2019
4. George, MA, Hospital Administration, Jaypee Brothers, N. Delhi 2003

ENGLISHANDCOMMUNICATION–II

Course:AEC

Credits:3 **No of Hours:45 Hours**

Course Outcomes:

At the end of the course, students will be able to:

CO1:AcquiretheLSRW (Listening,Speaking,Reading,andWriting) skills. Through Cambridge Interchange Fifth Edition, students will develop real world communication skills- enhancing fluency in speaking, listening, reading and writing – wile mastering grammar, expanding vocabulary and improving pronunciation with supportive digital tools.

CO2: Learn to appreciate Literature.

CO3: Be aware of social responsibilities.
CO4: Enhance the analytical skill

COURSECONTENT:

Unit	Hrs	Content	Must Know	Goodt	Desirable to Know	Weightage	Types Of Questions

Unit	Hrs	Content	Must Know	Goodt	Desirable to Know	Weightage	Types Of Questions
UnitI	13hrs	**UNIT – I: CAMBRIDGE INTERCHANGESFIF TH EDITION** Only Time Will Tell I Like Working with People It's Really Worth Seeing It's a Long Story That's Entertainment Now I Get it I wouldn't have done that Making Excuses	√			29%	SA
Unit II	3hrs	**UNIT–II:Phonetics–IPA Transcription**	√			7%	SA
Unit III	13hrs	**UNIT–III:Grammar and Written Communication** Reported Speech Modals Clauses Gerunds Active and Passive Voice Synonymsand Antonyms News Report Writing Speech Writing Dialogue Writing	√			29%	SA

Unit	Hrs	Content	Must Know	GoodtoKno	Desirable to Know	Weightage	Types Of Questions
Unit IV	4hrs	**UNIT–IV:PROSE** Chicago Address by Swami Vivekananda I have a Dream:Martin Luther King	√			9%	LE,SE
Unit V	6hrs	**UNIT–V: Poetry** Still I Rise : Maya Angelou B The Raven:Edgar Allen Poe Break,Break,Break:Alfred Lord Tennyson	√			13%	LE,SE
Unit VI	6hrs	**UNIT–VI:Short Stories** The Luncheon: William Somerset Maugham The Power of Prayer: APJ Abdul Kalam The Necklace: Guy De Maupassant		√		13%	LE,SE

- **LE**-Long Essay**, SE**-Short Essay**, SA**-Short Answer

Recommended Books:

1. Cambridge:Interchange Fifth Edition
2. Contemporary English Grammar Structures & Composition by David Green
3. English Grammar and Composition:Wren&Martin
4. English Grammar in Use by Raymond Murphy

SEMESTER III

PARTIAL REMOVABLE PROSTHODONTICS(CPD)

Course: Core

Credits : 08 **No of Hours : 170 Hours**

- **Course Outcomes:**

At the end of the course, students will be able to:

CO 1. Should be well versed with various components of CPD

CO 2. Should be able to understand and apply the appropriate various design concepts pertaining to CPD

CO 3. Should be able to communicate well with the dentists about the design concepts

CO 4. Should be able to identify as well as rectify the casting failures.

COURSE CONTENT

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
Unit I	15 hrs	Cast Partial Denture Introduction (CPD) 1.1 Introduction to CPD	√			5%	SE,SA
Unit II	15 hrs	Components Of CPD 2.1 Major connector 2.2 Minor Connector 2.3 Rest and rest seats 2.4 Retainers 2.5 Denture base 2.6 Principle of designing	√			15%	SE,SA, LE
Unit III	10 hrs	3.1 Essentials of design and communication with dentist and lab design procedure	√			5%	SE

Unit IV	30 hrs	Lab procedures in CPD 4.1 Diagnostic cast 4.2 Surveying 4.3 Master cast 4.4 Duplication and refractory casts 4.5 Waxing and spruing	√			20%	LE, SE
Unit V	10 hrs	Investment Materials 5.1 Introduction 5.2 Investment materials	√			5%	SE,SA, LE
Unit VI	30 hrs	Casting procedures and failures 6.1 Casting procedures 6.2 Casting machines 6.3 Casting failures	√			10%	SE,SA, LE
Unit VII	10 hrs	7.1 Finishing and polishing of the framework	√			5%	SE,SA, LE
Unit VIII	50 hrs	Acrylisation of CPD 8.1Acrylisation of CPD	√			5%	SE,SA,

REFERENCE BOOKS:

1.Robert M. Morrow, Kenneth D. Rudd. Dental Laboratory Procedures: Volume III Removable Partial Dentures. 1st Edition. Elsevier. 2016

2.Rodney D Phoenix, David R Cagna, Charles F deFreest. Stewart's Clinical Removable Partial Prosthodontics. 4th Edition. Quintessence Publishing Co.2014

3.Deepak NallaswamyVeeraiyan. Textbook of Prosthodontics. 2nd Edition. Jaypee Brothers Medical Publishers. 2017

PARTIAL REMOVABLE PROSTHODONTICS(FLEXIBLE) & FIXED PROSTHODONTICS

Course: Core

- **Credit : 09** **Number of hours: 70 hours**

Course Outcomes:

At the end of the course, students will be able to:

CO 1: Should be able to understand and fabricate flexible dentures.
CO 2: Should be able to identify and utilize Precision attachment in CPD.

CO 3: Should be able to understand the various impression materials and gypsum products in

depth to be able to put in practical perspective.

CO 4: Should be able to understand design concepts in of fixed dental prosthesis.

CO 5: Should be able to understand various die materials and die systems.

CO 6: Should learn the wax up procedure for single crowns and multi-unit bridges.

COURSE CONTENT

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
Unit I	80 hrs	9.1Flexible dentures(30 hrs) 9.2precision attachment (50 hrs)	√			5%	SE,SA
Unit II	5hrs	Introduction to FPD 1. 1Introduction	√			15%	LE,SE,SA,
Unit III	5hrs	2.1Die and die systems	√			5%	SE
Unit IV	5hrs	3.1 Parts of FPD	√			20%	LE, SE
Unit V	5hrs	4.1Occlusion in FPD	√			5%	LE, SE,SA,
Unit VI	10hrs	5.1 Laboratory Procedure In FPD	√			10%	LE,SE,SA,

- **LE-** Long Essay**, SE-** Short Essay**, SA-** Short Answer

- **Recommended Books:**

1. Robert M. Morrow, Kenneth D. Rudd. Dental Laboratory Procedures: Volume III Removable Partial Dentures. 1st Edition. Elsevier. 2016
2. Rodney D Phoenix, David R Cagna, Charles F deFreest. Stewart's Clinical Removable Partial Prosthodontics. 4th Edition. Quintessence Publishing Co.2014
3. Robert M. Morrow, Kenneth D. Rudd, John E. Rhoads. Dental Laboratory, Procedure: Volume II Fixed Partial Dentures. 1st edition Elsevier 2016
4. Masahiro Kuwata. Colour atlas of Ceramo-metal technology :MDMI.Inc, 1986

5. Carmen Scheller-Sheridan. Basic guide to dental materials: 1st edition Wiley-Blackwell, 2010
6. Bernard Gn Smith, Leslie C Howe. Planning and making crowns and bridges. 4th edition, Informa healthcare. 2007

HUMAN RIGHTS AND GENDER EQUITY

Course: VAC

Credits: 2 **No of Hours: 30 Hours**

Course Outcome:

At the end of this course, students will gain knowledge on,

CO1: Basic Knowledge of Human Rights and its function and authorities in society and industry women's status, issues and gender equity.

COURSE CONTENT:

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
Unit I	5hrs	Human Rights 1.1 Human Rights –Meaning 1.2 Universal declaration of Human Rights	√			20 %	SE, SA
Unit II	5hrs	Human Rights Advocacy 2.1 Global Advocacy of Human Rights; Amnesty International and Other Organisations 2.2 People's Union for Civil Liberty (PUCL) 2.3 Human Rights Commission in India 2.4 Minority Commission in India 2.5 Remedies Against Violation of Human Rights in India	√			25%	SE, SA
Unit III	5hrs	Gender Equity Key Concepts-	√			20%	

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
		3.1 Sex and Gender 3.2 Masculinity and Femininity 3.3 Patriarchy, Matriarchy 3.4 Gender roles and Attributes,Gender Division of Labour 3.5 Gender Bias 3.6 Gender Stereotypes 3.7 Need for Gender Sensitization					SA
Unit IV	5hrs	Women's Status in India Important indicators-Sex Ratio,Education,Health, Nutrition, Maternal and Infant Mortality,Work Participation Rate,And Political Participation.	√			15%	SE, SA
Unit V	5hrs	Contemporary Women's Issues 5.1 Discrimination Against Girl Child 5.2 Violence Against Women 5.3 Problems of health and nutrition 5.4 Women's Education and Gender Bias in Education 5.5 Trafficking in women 5.6 Globalization and Impact on Women	√			15%	SE, SA
Unit VI	5hrs	State Initiatives for Gender Equity 6.1 Constitutional Rights of Women 6.2 Laws Pertaining to Women 6.3 The National and State Commissions for Women		√		05%	SE

- **Recommended Books:**

1. Parvathy Appaiah,Human Rights, Gender Equity and Environmental Studies, Shivam Books Publishers, 2012.

2. Parvathy Appaiah,Human Rights, Gender Equity and Environmental Studies, Jai BharathPrakashan Publishers, 2016.
3. Parvathy Appaiah,Human Rights, Gender Equity and Environmental Studies, Jai BharathPrakashan Publishers, 2018-19.
4. Nirmal Chiranjivi:Human Rights in India,New Delhi,OUP,2001

SEMESTER IV

DENTAL MATERIALS & METALLURGY

Course: Core

Credits : 4 **No of Hours : 60 Hours**

- **Course Outcome :**

  CO1 should know about the composition of the metals used in removable prosthodontics and orthodontics

  CO2 comprehend laboratory procedures used in fabrication of CPD

- **Course Content:**

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
Unit I	40hrs	Metals and metal alloys used in Dentistry.	✓			20%	SE,SA, LE
Unit II	50hrs	Casting procedure	✓			40%	SE,SA, LE
Unit III	50hrs	Solders, Fluxes, Anti Fluxes, Tarnish and Corrosion. Electric Deposition	✓			20%	SE,SA, LE
Unit IV	70hrs	Materials used in orthodontia	✓			20% **20**	SE,SA, LE

Recommended Books

1. Kenneth J Anusavice. Philips' Science of Dental Materials, Edition 13. Philadelphia: WB Saunders. 2021
2. Shama Bhat. Science of Dental Materials with Clinical Applications. Edition 3. CBS Publishers and Distributors,2019

DENTAL MECHANICS (Fixed Prosthodontics)

Course: Core
Credits: 04 **Number of hours: 60+300**

- **Course Outcome:**

CO1. Should acquire adequate knowledge about the lab procedures prior to metal prosthesis fabrication.
CO2. Should have adequate knowledge about finishing and polishing metal prosthesis.

CO3. Should be able to identify and understand the working of various ceramic furnace and laboratory equipment

CO4. Should acquire adequate knowledge on dental ceramics for PFM prosthesis fabrication

CO5. Should have adequate knowledge about all ceramic restoration (Pressables: E Max, Lithium di-silicate)

COURSE CONTENT:

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
Unit I	10 hrs	1.1 Laboratory procedure in FPD	✓			40%	LE, SE,SA,
Unit II	10 hrs	2.1Dental ceramic layering	✓			40%	LE, SE,SA
Unit III	5 hrs	3.1Staining and glazing procedure	✓			10%	LE, SE,SA
Unit IV	5hrs	4. Introduction to all ceramic restorations	✓			10%	LE, SE,SA

Recommended books

1. Masahiro Kuwata. Colour atlas of Ceramo-metal technology :MDMI.Inc, 1986
2. Carmen Scheller-Sheridan. Basic guide to dental materials: 1st edition Wiley-Blackwell, 2010
3. Kenneth J Anusavice.Philips' Science of dental materials. 13th edition Saunders. 2021
4. Bernard Gn Smith, Leslie C Howe. Planning and making crowns and bridges. 4th edition, Informa healthcare. 2007

DENTAL MECHANICS SKILLS (CAST PARTIAL DENTURES & FIXED

PROSTHODONTICS)

Course: SEC
Credits: 10 **Number of Hours: 300 hours**

- **Course Outcome:**

CO1. To be able to sprue and invest wax patterns and perform casting procedure.
CO2. Should be able to do metal fitting and trimming, finishing and polishing.
CO3. Should be able to operate and calibrate ceramic furnace and laboratory equipment.
CO4. Should be able to layer, build up, glaze and stain a PFM restoration
CO5. Should have adequate skill in fabricating an all ceramic restoration.(Pressables: E Max, Lithium di-Silicate).
CO6. To acquire proficiency in the art of ceramic layering.
CO 7. To characterize a ceramic restoration to duplicate natural tooth anatomy.

- **Course content** :

- Spruing and investing of FPD wax patterns
- Casting of FPD
- Metal trimming, fitting, polishing
- Layering of opaque ceramic on the metal copings.
- Layering of dentin and enamel ceramic

ENVIRONMENTAL STUDIES

Course: VAC

Credits: 2 **No of Hours: 30 Hours**

At the end of the course, students will be able to:

CO1: Student will be able to learn about environment, factors affecting it, environmental ethics and its protection.

CO2: Student will be able to describe a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, ethical, political, health and safety, manufacturability and sustainability

CO3: Student will be able to critically analyze technical subject matter (Written/ oral) for scientific merit apply learnt environmental knowledge and understanding to solve technical or research problems in new contexts

COURSE CONTENT:

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Question type

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Question type
Unit I	2 hrs	Multidisciplinary nature of Environmental Studies • Multidisciplinary nature of Environmental Studies Environment definition, Components of environment, Scope of environmental studies. Four spheres of earth (Hydrosphere, Atmosphere, Lithosphere and Biosphere)					
		• Concept of sustainability and sustainable development (Brundtland Commission), pillars of sustainability; Sustainable Development Goals (SDGs). • International Agreements: Montreal protocol, Kyoto protocol, Convention on Biological Diversity (CBD)	✓			5%	SE, SA
Unit II	6 hrs	Ecosystems • What is an ecosystem? Ecological units. Structure of an ecosystem; biotic and abiotic components, and function of an ecosystem; energy flow in the ecosystem; biogeochemical cycle, biological interactions, food chains, food webs,	✓			10%	SE, SA

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Question type
		ecological pyramids and ecological succession. • Types of ecosystems: a. Terrestrial • Forest ecosystem – tropical evergreen, tropical deciduous, temperate evergreen, temperate deciduous and Taiga/Boreal • Grassland ecosystem – Savannas and Temperate grasslands (Steppes, Pampas, Prairies,Veldtand Downs. • Desert ecosystem – hot and dry, semi-arid, coastal and cold. Plant and animal adaptations. b. Aquatic ecosystems – Marine, Freshwater (lentic and lotic) and Estuarine; Pond as an ecosystem. • Ecosystem services					
Unit III	7 hrs	Natural Resources • Classification of natural resources - Renewable and Non-renewable resources • Forest resources: Uses (timber, medicinal, food,	✓			15%	SE, SA

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Question type
		economic importance, prevent soil erosion, control floods, religious and cultural practices) and overexploitation (Deforestation, timber extraction, mining, construction of dams). • Water resources: Uses (domestic, agricultural, industrial, electricity and transport) and over utilization of surface and ground water (drying of wells, lakes and ponds, extraction of groundwater, decrease in water table, deterioration of water quality and land subsidence). Floods, Drought, dams – benefits and problems, conflicts over water (state and international) • Land resources: Land as a resource; Land degradation, earthquake, landslides, soil erosion and desertification. • Energy resources: Renewable and non-renewable energy sources,					

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Question type
		growing energy needs, use of alternate energy sources, case studies (Kochi – first solar powered airport, Tamilnadu – windmills, Gujarat – tidal energy) • Conservation of forest, water, land and energy resources.					
Unit IV	7 hrs	Biodiversity and its conservation • Introduction; Levels of biological diversity: genetic, species and ecosystem diversity; Bio geographic zones of India; Global biodiversity hotspots • India as a mega-biodiversity nation; Endangered and endemic species of India • Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; • Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. • Ecosystem and biodiversity services: ecological, economic, social, ethical,	✓			15%	SE, SA

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Question type
		aesthetic and informational value. • Human wildlife conflicts in Indian – People and wildlife					
Unit V	8 hrs	Environmental Pollution Definition • Cause, effects and control measures/management of: - a. Air pollution b. Water pollution c. Soil pollution d. Light pollution e. Noise pollution f. Thermal pollution g. Radiation pollution • Pollution case studies (London smog, Bhopal gas tragedy, Beijing/Delhi air pollution, Eutrophication, Minamata disease, Exxon Valdez oil spill, Love canal tragedy, Chernobyl disaster) • Climate change, Greenhouse effect, Global warming, Acid rain, Ozone layer depletion. • Solid waste management: control measures of urban and industrial wastes. • Carbon footprint – How to calculate carbon footprint	✓			15%	SE, SA

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Question type
		and ways to reduce your carbon footprint. • Human Population growth – impacts on environment • Environmental movements: Chipko movement, Bishnois of Rajasthan,Silent Valley, Narmada bachaoandolan					

❖ LE- Long Essay, SE- Short Essay, SA- Short Answer

➢ **Recommended books**

1. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
2. Gadgil, M., &Guha, R. 1993. This Fissured Land: An Ecological History of India. Univ. of California Press.
3. Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge.

FIFTH SEMESTER

ANALOGUE PROSTHODONTICS
IMPLANT PROSTHESIS FABRICATION

Course: Core
Credit: 09 **Number of Hours: 270**

- **Course Outcome:**

  At the end of the course, students will be able to:

CO1. Students should have adequate understanding of dental implantology.

CO2.Have a thorough understanding of 3-4 different implant systems and pour them.

CO3. Should articulate the role of fixtures, abutments, prosthetic components, and retention elements in implant systems.

CO4. Should have knowledge about various implant impressions and pour them accordingly and fabricate cast for implant prosthesis

CO5. Should have adequate knowledge and laboratory skills in fabricating cement retained and screw retained prosthesis.

CO6. Should be able to fabricate single unit and multiple implant supported FPD's.

COURSE CONTENT:

Unit	**Hrs**	**Content**	**Must Know**	**Good to Know**	**Desirable to Know**	**Weightage**	**Type Of Questions**
Unit I	30 hrs	1.1 Introduction to implant prosthetics	✓			10%	SE,SA, LE
Unit 11	35 hrs	2.1Disinfection in implant dentistry	✓			10%	**SE**
Unit III	30 hrs	3.1 Components of implants				20%	SE,SA, LE
Unit IV	40 hrs	4.1 Abutment selection	✓	✓		15%	SE,SA,
Unit V	30 hrs	5.1 Implant impressions	✓	✓		15%	SE,SA,
Unit VI	18hrs	6.1Fabrication of cast for implant prosthesis				15%	SE,SA, LE
Unit VII	30 hrs	7.1 trial jig fabrication	✓			15%	SE,SA, LE

Unit VIII	17 hrs	8.1 Intraoral scanning for implants			✓		SE,SA,
Unit IX	20 hrs	9.1 Implant worktypes			✓		
Unit X	20 hrs	Abutment milling	✓				SE,SA

Recommended Books:

1. Carl E Misch. Dental Implant Prosthetics. 2nd Edition. Elsevier 2014
2. Hamid Shafie. Clinical & Laboratory Manual Dental Implant Abutments. 1st Edition. Wiley- Blackwell. 2014
3. Tony Johnson, David G Patrick. Basics of Dental technology. 2st Edition. Wiley- Blackwell. 2015
4. Carl E Misch. Dental Implant Prosthetics. 3nd Edition. Elsevier 2015

DIGITAL PROSTHODONTICS
CAD CAM IN DENTISTRY

Course: Core
Credits: 09 **Number of hours: 270**

- **Course Outcome**:

At the end of the course, students will be able to:

CO1. Should have thorough knowledge about CAD CAM in dentistry.

CO2. Should acquire basic understanding of EXOCAD software.

CO3. Students should be able to fabricate single unit and 3 unit FPD using CAD CAM.

CO4. Should have an understanding of machines and equipments used in CADCAM.

CO5. Should be able to operate, calibrate and maintain the equipments.

CO6. Should be able to perform various procedures like milling, DMLS and 3D printing.

- **Course Content:**

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
I	30hrs	1.1 Introduction and history of CADCAM	✓	✓		5%	SE
II	30hrs	2.1 Materials and equipment in CAD CAM	✓			20%	SE,SA
III	50hrs	3.1Digital scanning & its application	✓	✓		20%	SE,SA, LE
IV	50hrs	4.1 Digital designing of single restorations – coping	✓			20%	SE,SA, LE
V	50hrs	5.1 Digital designing of splinted restorations – full crown		✓		20%	SE,SA, LE
VI	60hrs	6.1 Digital Smile designing	✓			15%	SE

- **Recommended Books:**

1. Jonathan L Ferencz, Nelson RFA Silva. Fundamentals of CAD CAM Dentistry. 1stEdition .American College of Prosthodontists. 2019
2. Mohammed Imran Zainvi, Suhas Rao, Pranav Mody. CAD CAM in Dentistry. Lambert Academic Publishing. 2014
3. RadiMasri, Carl F Driscoll .Clinical Applications of Digital Dental Technology. 1st Edition. Wiley- Blackwell. 2015
4. Carl E Misch. Dental Implant Prosthetics. 2ndEdition. Elsevier 2014
5. Dianne Rekow. Digital Dentistry: A Comprehensive reference and preview of the future. 1st Edition. Quintessence Publication. 2018

SIXTH SEMESTER

Complete laboratory work flow

Course: SEC
Credits: 08 **Number of hours: 240**

- **Course Outcome:**

At the end of the course, students will be able to:

CO 1.To be able to independently fabricate the various types of dental prosthesis.

- **Course Content:**

- Practical training in fabrication of Complete removable denture
  4 each
- Practical training in fabrication of Partial removable denture
  10 each
- Practical training in fabrication of Fixed Prosthesis
  Crown-10 single crowns
  FPD- 5 each
- Designing of fixed prosthesis using CAD/CAM
  Crown-5 single crowns(3 full anatomy and 2 copings)
  3 unit bridge- 3 each
  Inlay 2 each
  Onlay-2 each
  Model scanning -5 each
  Designing and Printing- Minimum 2

- **Recommended Books:**

1.Robert M. Morrow, Kenneth D Rudd. Dental Laboratory Procedures: Volume I Complete Dentures. Elsevier, 2016
2.Robert M. Morrow, Kenneth D. Rudd. Dental Laboratory Procedures: Volume III Removable Partial Dentures. 1st Edition. Elsevier. 2016
3.Robert M. Morrow, Kenneth D. Rudd, John E. Rhoads. Dental Laboratory, Procedure: Volume II Fixed Partial Dentures. 1st edition Elsevier 2016

MEDICAL ETHICS

Course: VAC

Credits: 2 **No of Hours: 30 Hours**

Course Outcomes:

At the end of the course, students will be able to:

CO1: Increasing the awareness and knowledge of students of the value dimensions of

interactions with the patients, colleagues, relations andpublic.

CO2: Fostering the development of skills of analysis, decision making and judgment.

CO3: Making the students aware of the need to respect the rights of the patient.

COURSE CONTENT:

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
Unit I	3hr	**Introduction to ethics** What is ethics, what are values and norms, freedom and personal responsibility?	√			15%	SA, SE
Unit II	4hrs	**Definition of medical ethics** Major principles of medic ethics.	√			20%	LE, SA
Unit III	4hrs	**Perspective of medical ethics** The Hippocratic oath, The Declaration of Helsinki, The WHO Declaration of Geneva, International code of Medical Ethics (1993), Medical Council of India Code of Ethics (2002).	√			15%	LE, SA, SE
Unit IV	4hrs	**Ethics of the individual**Truth and confidentiality, the concept of disease, health and	√			15%	SE

Unit	Hrs	Content	Must Know	Good to Know	Desirable to Know	Weightage	Type Of Questions
		healing, theRighttohealth.					
Unit V	3hrs	**The ethics of human life** Prenatal sex determination.	√			15%	SA, SE
Unit VI	4hrs	**The family and society in medical ethics** Euthanasia, cancer and terminal care.		√		10%	LE, SA
Unit VII	4hrs	**Death and dying** Use of life-support systems, the right to die with dignity, suicide–the Ethical outlook.		√		05%	LE, SA, SE
Unit VIII	4hrs	**Professional Ethics** Contract and confidentiality, malpractice and negligence.		√		05%	SA, SE

- **Recommended Books:**

1. Tsai DF. The WMA medical ethics manual. Journal of Medical Ethics. 2006 Mar 1;32(3):163 Loewy EE, Loewy RS. Textbook of healthcare ethics. Springer Science & Business Media; 2004 Jun 29.

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ANNEXURES

List of Annexures:

- ANNEXURE – I: Question Paper Layout for Internal Assessment and Semester end Examination of Theory Examination (Core)
- ANNEXURE – II: Question Paper Layout for Internal Assessment and Semester end Examination of Theory Examination (AEC & VAC)
- ANNEXURE – III: Logbook Format

ANNEXURE – I

Model Question Paper for theory of Internal assessment & Semester end Examination

I Semester B.Sc. Dental Technology

Time: 2 Hours Max. Marks: 50 Marks

SUBJECT NAME:

Q.P Code:

Your answer shall be specific to question asked.

Draw neat and labeled diagrams wherever necessary.

LONG ESSAY (Answer any One) **(1x10=10Marks)**

1.

2.

SHORT ESSAY (Answer any Five) **(5x4=20Marks)**

3.

4.

5.

6.

7.

8.

9.

SHORT ANSWERS (Answer any Ten) **(10x2=20Marks)**

10.

11.

12.

13.

14.

15

16.

17.

18.

19.

20.

21.

ANNEXURE – II

Model Question Paper of theory for Internal assessment and Semester end Examination of AEC & VAC

YENEPOYA
(DEEMED TO BE UNIVERSITY)

I Semester B.Sc. Dental Technology

Time: 2 Hours **Max. Marks: 25 Mark**

Subject name

Q.P Code:

Your answer shall be specific to question asked.

Draw neat and labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three) (3x5=15Marks)

1.
2.
3.
4.
5.

SHORT ANSWERS (Answer any Five) **(5x2=10Marks)**

6.
7.
8.
9.
10.
11.
12.

Model Question Paper of theory for Internal assessment and Semester end Examination

of AEC & VAC

I Semester B.Sc. Dental Technology

Time: 2 Hours **Max. Marks: 50 Marks**

Subject Name

Q.P Code:

Your answer shall be specific to question asked.

Draw neat and labeled diagrams wherever necessary.

LONG ESSAY (Answer any One) **(1x10=10Marks)**

1.

2.

SHORT ESSAY (Answer any Five) **(5x4=20Marks)**

3.

4.

5.

6.

7.

8.

9.

SHORT ANSWERS (Answer any Ten) **(10x2=20Marks)**

10.

11.

12.

13.

14.

15

16.

17.

18.

19.

20.

21.

ANNEXURE – III

YENEPOYA
(DEEMED TO BE UNIVERSITY)

YENEPOYA
(DEEMED TO BE UNIVERSITY)

YENEPOYA
SCHOOL OF ALLIED
HEALTH SCIENCES

Constituent unit of

Yenepoya (Deemed to be University)
University Road,

Deralakatte Mangaluru – 575018

Academic Portfolio

B.Sc. Dental Technology

(2025-28)

YENEPOYA
(DEEMED TO BE UNIVERSITY)

YENEPOYA
SCHOOL OF ALLIED
HEALTH SCIENCES

STUDENT INFORMATION

NAME	
DATE OF BIRTH	
CAMPUS ID	**REG NO**
PHONE NO	**EMAIL ID :**
PERMANENT ADDRESS	
INFORMATION OF THE PARENT/GUARDIAN **NAME:** **CONTACT NO:** **EMAIL ID:** **RELATIONSHIP:**	
INFORMATION OF THE PARENT/GUARDIAN **NAME:** **CONTACT NO:** **EMAIL ID:**	

Signature of Student ***Signature of Mentor***

YENEPOYA
(DEEMED TO BE UNIVERSITY)

CERTIFICATE

This is to certify that

Reg. No: _____, a Student of Bachelor of Dental Technology has successfully completed 3 years (6 Semesters) of Under Graduate program during the year 2025 – 28, from Yenepoya School of Allied Health Science, A constituent Unit of Yenepoya (Deemed to be University).

Program Coordinator **Dean, YAHP**

Vision

To be the Premier Allied and Healthcare Professional Institute in India where knowledgeable, skilled, competent and caring professionals are produced by integrated clinical practice, scientific education and research.

Mission

- To build a training/learning environment to bring in academic excellence among the students and to prepare them for global competence.
- To provide quality education by consistently updating curriculum and to meet the present and future needs.
- To promote scientific research to groom faculty and students to learn evidence- based practices in health care.

BACHELOR IN DENTAL TECHNOLOGY

INTRODUCTION:

Laboratory training in dental technology requires the application of a wide range of knowledge and experience in an integrated manner for the provision of appliances for patients. Dental technology is divided into four main areas, fixed prosthodontics, complete denture technology, removable denture technology and orthodontic technology.

The graduate will be prepared to:

- Demonstrate the breadth of knowledge in the principals of restorative dental prosthesis and dental sciences.
- Demonstrate proficiency in the technical competency skills necessary to perform at or beyond an entry-level position in a dental laboratory.
- Select and utilize specified materials in the construction of dental prostheses, recognizing the materials limitations and advantages.
- Work and communicate effectively as part of an interdisciplinary health care team.
- Design and construct dental prostheses using current technologies and materials.

PROGRAM OUTCOMES:

- Upon successful completion of the undergraduate course, students will have developed a broad knowledge in the field of dental technology and fabrication of various dental prosthesis.
- In particular they will be: **Expected skill to be acquired by the end of the programme:**
- PO1: Able to Perform his/her task independently.
- PO2: Able to Perform detailed evaluation and execute the same.
- PO3: Able to know the application, use and maintenance of the various appliances and machineries used.
- PO4: Able to handle the various dental materials effectively.
- PO5: Work independently or in concurrence with dental health care professionals.

PROGRAM SPECIFIC OUTCOMES:

- PO1: Acquire the knowledge and skills to perform their task independently.
- PO2: Acquire expertise in use and maintenance of the various appliances and machineries used.
- PO3: Understand the work ethics and Work independently or in concurrence with dental health care professionals.

First Semester

CONTINUOUS COMPREHENSIVE ASSESSMENTS (CCA)

Course	Sl. No	COMPONENT OF CCA	Marks Obtained	Signature of the Faculty In-Charge
Applied Physics, Chemistry & Mechanics (Dental Materials)				
Oral Anatomy				
Dental Mechanics (Complete Removable Prosthodontics)				
Art and Pencil Sketching				
English and communication -I				
Constitution of India				

YENEPOYA
(DEEMED TO BE UNIVERSITY)

INTERNAL ASSESSMENT (IA) EXAMINATION MARKS

Course Type	Course Name	IA1		IA 2	
		Maximum Marks	Scored Marks	Maximum Marks	Scored Marks
Core	Applied Physics, Chemistry &Mechanics(Dental Materials)				
Core	Oral Anatomy				
SEC	Oral Anatomy(Practical)				
Core	Dental Mechanics(Complete Removable Prosthodontics)				
SEC	Dental Mechanics (Practical)				
SEC	Art & Pencil sketching				
AEC	English and communication - I				
VAC	Constitution of India				
	Total				

SIGNATURE

YENEPOYA
(DEEMED TO BE UNIVERSITY)

ATTENDANCE

Course Name	No. of hours Conducted	No.of hours Attended	Percentage
Applied Physics, Chemistry &Mechanics(Dental Materials)			
Oral Anatomy			
Oral Anatomy(Practical)			
Dental Mechanics(Complete Removable Prosthodontics)			
Dental Mechanics (Practical)			
Art & Pencil sketching			
English and communication - I			
Constitution of India			

SIGNATURE