

Learning Outcomes



ARMY COLLEGE OF DENTAL SCIENCES

Chennapur –CRPF Road , Jai Jawaharnagar Post, Secunderabad – 500 087, Telangana

Ph: +914029708384, 9347411942

Website: www.acds.co.in Email : army_c@rediffmail.com

NAAC Accredited 'A' & Certified ISO 9001 : 2015 & ISO 14001 : 2015

The Institution has stated the learning outcomes (generic and program-specific) and graduate attributes as per the provisions of the Regulatory bodies and the University; which are communicated to the students and teachers through the website and other documents

Response:

Army College of Dental Sciences sticks to the Program outcomes, program performance outcomes, and course performance outcomes laid by the University and the Dental Council of India:

General Skills

Apply knowledge & skills in day to day practice, apply principles of ethics, analyse the outcome of treatment, evaluate the scientific literature and information to decide the treatment, participate and involve in professional bodies, self-assessment & willingness to update the knowledge & skills from time to time, involvement in simple research projects, minimum computer proficiency to enhance knowledge and skills, refer patients for specialized treatment, basic study of forensic odontology and geriatric dental problems.

Practice Management

Evaluate practice location, population dynamics & reimbursement mechanism, Coordinate & supervise the activities of allied dental health personnel, maintain all records, implement & monitor, infection control and environmental safety programs, Practice within the scope of one's competence.

Communication & Community Resources

Assess patient's goals, values and concerns to establish rapport and guide patient care, be able to communicate freely, orally and in writing with all concerned, participate in improving the oral health of the individuals through community activities.

Patient Care


Diagnosis: Obtaining patient's history in a methodical way, performing a thorough clinical examination, selection and interpretation of clinical, radiological and other diagnostic information, obtaining appropriate consultation, arriving at provisional, differential and final diagnosis.

Treatment Planning: Integrate multiple disciplines into an individual comprehensive sequence, treatment plan using diagnostic and prognostic information, able to order appropriate investigations.

Treatment: Performing basic treatment procedures like taking, processing and interpreting various types of intra-oral radiographs, oral prophylaxis, restorations, crown preparation, uncomplicated extraction of teeth, root canal treatment, etc., and referring the patient to the required specialist whenever necessary, recognition and initial management of medical emergencies that may occur during Dental treatment, perform basic cardiac life support management of pain including post-operative administration of all forms of local anesthesia, simple orthodontic appliance therapy, various kinds of restorative procedures using different materials available, simple endodontic procedures, removable and fixed prosthodontics, various kinds of periodontal therapy.

These outcomes are properly explained to the students during the week-long orientation program and are displayed on the website, with copies of the same available for distribution by the IQAC at regular intervals for communicating to the faculty.




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LIST OF PROGRAM OUTCOMES

- Po 1 - Ability to identify the normal structures of oral cavity, differentiating the primary and permanent teeth, growth and development of jaws
- Po 2 - Competent to diagnose the common dental and oral diseases, malocclusion, tobacco associated oral lesions, and potentially malignant and malignant conditions
- Po 3 - Competent in taking intraoral radiographs and interpret the radiographic findings
- Po 4 - Ability to use the proper instruments for a given condition
- Po 5 - Knowledge and skill in using dental materials and drugs
- Po 6 - Providing full mouth rehabilitation care and aesthetic dental care
- Po 7 - Providing dental care for special children
- Po 8 - Providing preventive dental care and dental care for medically compromised patients
- Po 9 - Knowledge about recent advances in dentistry
- Po 10 - Communication, interpersonal and managerial skills
- Po 11 - Skills of oral health promotion including primary and secondary prevention, and tobacco habit cessation counselling
- Po 12- The ability to respect community values, including an appreciation of a diversity of backgrounds and cultural values

Preclinical phase

- Po 13 - Able to demonstrate lab procedures for crown and bridge fabrication
- Po 14- Able to perform teeth setting for complete denture prosthesis
- Po15 -Able to perform removable and complete denture lab works
- Po 16 -Able to fabricate removable orthodontic appliances
- Po 17- Preclinical training for endodontics and conservative dentistry
- Po 18 - Able to Histological identification of normal oral structures and tooth section

COURSE NAME: PROSTHODONTICS

CO 1- Making primary impression of completely edentulous condition with Impression compound and fabrication of special tray.

CO 2 – Able to perform removable partial and complete denture laboratory works.

CO 3 – Able to perform teeth setting for removable partial and complete denture prostheses.

CO 4 - Elicit case history for partially and completely edentulous patients.

CO 5 - Clinical procedures involving impressions, maxilla-mandibular relationships, wax trials, denture insertions and recall visits for removable prosthesis and for Fixed Prosthesis

CO 6 - Understanding the patients, mental attitude. Instructing the patient.

CO 7 - Knowledge on chair and operator position for practical and clinical procedures

CO 8 - Treatment planning and evaluation of diagnostic data.

CO 9 - Knowledge on objectives of impression making, materials, techniques and armamentarium

CO 10 - Observing the chair side demonstration of clinical procedures.

CO 12 - Tooth preparation for different restorations on mannequin

CO 11 - Visualizing techniques on videos.

CO 13 - Laboratory skills for fabrication of removable prosthesis

CO 14 – Knowledge about recent dental materials and rehabilitation techniques

COURSE NAME: PERIODONTOLOGY

- CO 1- Ability to identify the normal structures of the oral cavity
- CO 2- Competent to diagnose the common dental and oral diseases
- CO3 -Competent in interpreting the radiographic findings
- CO4. Ability to use the proper instruments for a given condition
- CO5 Providing preventive dental care and dental care for medically compromised patients
- CO6. Knowledge about recent advances in dentistry
- CO7. Communication, interpersonal and managerial skills

- CO8. Skills of oral health promotion including Primary and Secondary Prevention
- CO9. The ability to respect community values, including an appreciation of a diversity of backgrounds and cultural values.

Mapping of Program Outcomes & Course Outcomes

Course Outcomes (COs)	PROGRAMME OUTCOME														PO15	PO16	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14			
CO-1 Ability to identify the normal structures of the oral cavity																	
CO-2: Competent to diagnose the common dental and oral diseases																	
CO-3: Competent in interpreting the radiographic findings																	
CO-4 Ability to use the proper instruments for a given condition																	
CO-5 Providing preventive dental care and dental care for medically compromised patients																	
CO 6 Knowledge about recent advances in dentistry																	
CO 7 - Communication, interpersonal and managerial skills																	
CO 8 Skills of oral health promotion including Primary and Secondary Prevention																	
CO 9 - The ability to respect community values including an appreciation for the diversity of backgrounds and cultural values																	

COURSE NAME: ORAL MEDICINE AND RADIOLOGY

CO 1- Diagnosis of pre-malignant and malignant disorders

CO 2- Able to execute various diagnostic procedures and medications

CO3. Case history taking and clinical examination

CO4. Able to diagnose tobacco induced oral lesions and conduct tobacco cessation counselling for needy patients

CO5 Provide treatment for dental patients with systemic diseases

CO6. Formulation of treatment protocol and writing a prescription for dental diseases

CO7. Diagnosing and managing bacterial, viral, and fungal oral lesions

CO8. Demonstration of techniques of intra oral radiography (IOPA, Occlusal, and bitewing)

CO9. Interpretation of normal radiographic anatomy and the pathology

CO10. Diagnosing muco-cutaneous lesions

COURSE NAME: PEDIATRIC AND PREVENTIVE DENTISTRY

CO-1 Effective implementation of “Psychological ownership” Clinics

CO-2 Provide age appropriate Anticipatory guidance

CO-3 Preventive measures for caries-topical fluoride application, pit and fissure sealants and preventive resin

CO-4 Class I Restorations with GIC and composites

CO-5 Minimally invasive procedures

CO-6 Basic extractions

CO-7 Total rehabilitation of early childhood caries in children

CO-8 Art of case history recording

COURSE NAME: ORAL AND MAXILLOFACIAL SURGERY

CO-1 Student should be able to identify the tooth indicated for extraction

CO-2 Student should be able to differentiate the primary and permanent teeth

CO-3 Student should be able to interpret the IOPA and OPG radiograph to facilitate diagnosis and treatment planning

CO-4 Student should be able to identify various dental extraction forceps and elevators used for extractions, minor oral surgical procedures

CO-5 Student should be able to select the appropriate quantity of local anaesthetic agents and perform the appropriate technique of administration of LA and also able to prescribe post op medications,

Should be able to perform various types of suturing techniques and dental wiring on models
CO-6 Basic extractions

CO-6 Student should be able to perform total extraction procedures and manage complications

CO-7 Student will be able to perform extraction for special children and medically compromised patients

CO-8 Student will be able to discuss about the various advanced surgical procedures

CO-9 Student should be able to display effective interpersonal communication and managerial skills on patient care

Mapping of Program Outcomes & Course Outcomes

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CO 8 - Student will be able to discuss about the various advanced surgical procedures																
CO 9 - Student should be able to display effective interpersonal																

COURSE NAME: ORTHODONTICS AND DENTOFACIAL ORTHOPAEDEICS

- CO1: Able to list the indications and components, comprehend the mechanism of action and select appropriate removable orthodontic appliance in any given clinical scenario
- CO2: Able to recall the steps, fabricate the components of Hawley's removable orthodontic appliance and also acrylicize Hawley's and habit breaking appliance accurately in a preclinical condition
- CO3: Able to recall the steps, fabricate and insert the appliance, give instructions and follow up in a clinical condition
- CO4: Able to describe the functional development of dental arches and occlusion, growth & development of the jaws
- CO5: Able to classify malocclusion and diagnose using an appropriate classification system
- CO6: Able to elicit history, perform a clinical examination and diagnose the malocclusion in a clinical scenario
- CO7: Able to explain the uses of IOPA, OPG and lateral cephalogram pertaining to orthodontic diagnosis
- CO8: Able to interpret IOPA, OPG and trace / interpret lateral cephalogram pertaining to orthodontic diagnosis
- CO9: Able to select and use appropriate instruments for fabrication of removable orthodontic appliances
- CO10: Able to recall the composition and properties of alginate, dental stone, heat cure & self cure acrylic and commonly used orthodontic wires
- CO11: Able to demonstrate manipulation of alginate and impression making for a patient
- CO12: Able to manipulate dental stone & self cure acrylic and perform necessary wirebending
- CO13: Able to explain the malocclusion & treatment plan and give post appliance insertion instructions to patients

Mapping of Program Outcomes & Course Outcomes

Course Outcomes (COs)	PROGRAMME OUTCOME															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PO16
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CO 8 - Able to interpret IOPA, OPG and trace / interpret lateral cephalogram pertaining to orthodontic diagnosis																
CO 9 - : Able to select and use appropriate instruments for fabrication of removable orthodontic appliances																

COURSE NAME: CONSERVATIVE DENTISTRY AND ENDODONTICS

CO1: Competent to diagnose all carious lesions

CO2: Adjust patients chair position in relevance to different procedures. Maintain appropriate posture and position during interaction with the patient and performing procedures

CO3: Demonstrate recommended hand washing techniques and placement of personal protective barriers

CO4: Provide restorative management for all types of carious lesion with no pulpal involvement with restorative materials such as silver amalgam, glass ionomer cement and composite resins

CO5: Placement of intermediate restoration at recommended conditions

CO6: Perform clinical evaluation for deep carious lesions by adopting direct and indirect pulp capping procedure

CO7: Perform direct midline diastema closure with composite resin layering procedure diagnosis

CO8: Understand the principles of aesthetic dental procedures

CO9: Competent to perform restorative management for all types of carious lesion in phantom head models.

CO10: Competent to manipulate different dental materials.

CO11: Competent to identify and use dental restorative instruments

CO12: Competent to perform preclinical root canal treatment in single rooted extracted tooth



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Dissemination of graduate attributes

The graduate attributes of various courses are disseminated among the students, faculty and parents through the following methods.

- Explained during orientation/induction of the course
- Internal communication to all departments
- Displayed on notice boards
- Posted in college official website




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Learning outcomes and Dental Graduate attributes:

1. Professionalism:

This attribute covers personal values, attitudes and behaviours. On graduation a dental student will be able to demonstrate appropriate caring behaviour towards patients and respect professional boundaries between themselves and patients, patient's families and members of the community. They will recognize professional and individual scopes of practice and provide culturally safe and competent practice that includes recognition of the distinct needs of the population.

2. Scientific, clinical, applied and integrated knowledge:

The graduated student will be able to diagnose diseases and abnormalities of the oral cavity and head/neck region. Obtain and assess information relative to systemic health of patients, initiating consultations and referrals to other health care professionals as appropriate. Develop a comprehensive treatment and/or referral plan, based on current oral disease risk analyses' and standards-of-care strategies.

3. Communication skill, interpersonal skill and leadership quality:

Apply interpersonal and communication skills to effectively care for diverse populations of patients and collaborate with other members of the healthcare team and engage in mentor/mentee activities and leadership within a health care team.

4. Research Acumen

Research is an integral part of dental programs. Following are the seven high-level graduate attributes inculcated in students for both research and professional practice

- Enquiring mind
- Core knowledge
- Critical appraisal
- Understanding of evidence base for practice
- Ability to work in a team
- Understanding of ethics and governance
- Ability to communicate among peers &
- Scientific writing.

5. Critical thinking and Clinical Decision Making:

Integrate and synthesize information to advance knowledge and skills through critical evaluation of biomedical literature and the application of new science. On

graduation, a dentist must be competent in decision-making, clinical reasoning and judgment in order to develop a differential, provisional or definitive diagnosis by interpreting and correlating findings from the history, clinical and radiographic examination and other diagnostic tests, taking into account the social and cultural background of the individual. These attributes also help to sharpen the research skill of the student.

6. Stewardship and Leadership

Faculty has a strong influence on students. This influence should be used in such a way that our students become productive members of society. Teachers encouraged to lift our students up. Stewardship of influence is a powerful tool, so use it wisely and lead staff to obtainable goal.

7. Clinical competence

Provide treatment and/or referrals as appropriate with the goal of achieving physiologic form, oral function and health. The graduating dentist must be competent to prevent and manage the majority of medical and dental emergency and also to identify and promptly refer dental or medical emergencies, which are beyond their scope of management

8. Social responsibility:

Realise their role as community oral health leaders and demonstrate their ability to function in community based disease prevention and health promotion activities.

9. Practice management:

Identify the business principles and programs used in the administration of a dental practice while complying with all regulations, policies and protocols that relate to health, safety and the law. Apply principles of risk management, quality improvement, infection control and radiation safety to patient care.

10. Ethics and Jurisprudence:

Ethics are critical to being a professional. A strong moral and ethical cpas could be a definitive guide to attaining good ethics and a strong , positive character in their professional life . Army College of Dental sciences practices ethics as per the guidelines issued in ‘Code of Ethics’ Regulations, 2014 by Dental Council of India (ANNEXURE ATTACHED)

A Dental graduate demonstrates an understanding of the concepts of professional ethics, health care principles and a familiarity with the DCI norms for Professional Conduct.

11. Pain management:

Utilize pharmacological therapies and behavioural techniques to prevent or manage pain and anxiety.


12. Oral health education:

Educate patients, parents and/or caregivers with individualized instructions for improving nutrition and maintaining good oral health, monitoring and re-evaluating wellbeing & wellness of our patients.

13. Holistic development

ACDS encourages adult learning which follows the basic principles of Learn, unlearn and relearn. This helps in constant learning and Continuing Professional Development (CPD). CPD is a planned, continuous and lifelong process whereby teachers try to develop their personal and professional qualities, and to improve their knowledge, skills and practice, leading to their empowerment, the improvement of their agency and the development of their organisation and their pupils.




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Evaluation

The college adapts both objective and conventional evaluations methods to assess the attainment of dental attributes.

The objective methods like OSPE/OSCE are introduced for evaluation of student wherein the students:

1. Depths Of Knowledge
2. Clinical Skills
3. Communication skills etc. are assessed.

The conventional evaluation system:

1. Answering the set of questions
2. One on one viva-voce
3. Identification of displayed specimens in a specified time limit
4. Chair side viva
5. Case presentation
6. Pedagogy.

S.NO	LEARNING OUTCOME	TEACHING METHOD	ASSESSMENT METHOD
1	Apply appropriate knowledge and skills to manage common dental health problems.	Pedagogy, Pre-clinical Exercises, kinesthetic learning tools	Theory and Practical assessment, real time feedback, log books, records, assignments, pre and post-psychometric testing in all domains of learning are done.
2	Understand and apply principles of ethics and legal requirement governing the practice of dentistry.	Webinars and Talks, syllabi from Public health dept.,	theory exams, viva voce, assignments (case based learning)
3	Demonstrate the ability to refer patients for specialized treatment.	Integrated and Interdisciplinary learning, Comprehensive clinics	Chair side work place based assessment, log books, electronic health records
4	Evaluate practice location, population dynamics and reimbursement mechanism	Community out-reach programs, field trips to dental clinics, lectures	short term internships in dental practices,
5	Demonstrate the skills to use contemporary technology and minimum computer proficiency for both documents record keeping and also to enhance knowledge and skills	Self- Directed learning	kinesthetic learning tools (haptic feedback on different models, repetitive practice of exercises beyond quota of work allotted), log books, active faculty feedback
6	Understand basic principles of practice administration financial and personnel management to a dental practice.	Community out-reach programs, field trips to dental clinics	short term internships in dental practices, interaction with trade representatives
7	Implement infection control and appropriate methods of waste disposal.	Pedagogy and Talks	table clinics, experiential learning tools, theory exams, viva voce, seminars
8	Develop communication skills to assess patient goals and concerns to establish rapport and guide patient care.	Experiential Learning, role play, behavioral skills learning & practice through Behavioral Sciences Unit	chair side learning/portage, communication skills, anamnesis, electronic health records, informed consent, documentation of case details
9	Evaluate and implement preventive programs at individual and community level.	Community out-reach programs, field trips to dental clinics	group discussions in community dynamics, sharing learning experiences, communicating health determinants to the community
10	Obtain a methodical patient history, performing thorough clinical examination and arriving at a provisional, differential and final diagnosis.	Evidence based participatory learning and clinical decision making	text books, journals, electronic resources, web based databases, evidence based learning & applications, journal clubs, seminars (PG program)
11	Ability to order appropriate investigation.	Experiential learning in clinics	peer learning

12	Use the knowledge of latest trends and technology in providing dental care.	Self- Directed learning, Evidence based learning	collect & collate evidences and authenticating them for application to the present scenario from Dental Education Unit
13	Acquire basic skills to deliver quality dental care and also willingness to update the knowledge and skills from time to time	Integrated and Interdisciplinary learning	student development programs, lectures, workshops/clinical society meetings, multi-disciplinary clinical audits through Scientific Academic Forum
14	Recognize and manage medical emergencies that may occur during dental treatment	Integrated and Interdisciplinary learning, participatory learning	simulation based learning, skill workshops



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RUBRICS USED FOR ASSESSMENT

Evaluation Parameter	Excellent	Needs Improvement	Critical Error
Patient Education	Dismisses the patient with appropriate home care procedures specific to care provided.	Requires faculty prompting to provide the patient with appropriate home care procedures specific to care provided.	Dismisses the patient without appropriate home care procedures specific to care provided
Infection Control	Independently demonstrates proper infection control techniques.	Requires assistance to demonstrate proper infection control techniques.	Does not demonstrate proper infection control techniques.
Documentation	Obtains appropriate patient consent for the procedure. <i>And</i> Documentation is thorough and accurate	Requires faculty prompting to obtain appropriate patient consent for the procedure. <i>Or</i> Requires assistance to thoroughly and accurately document.	Initiates procedure without obtaining appropriate patient consent. <i>Or</i> Critical patient information is not documented or is inaccurate.

Evaluative Criteria	Performance Levels			
	Honors Level (must meet all listed criteria)	Progressing Satisfactorily (+)	Needs Improvement (-)	Critical Error
I. Health History a. Chief complaint	<ul style="list-style-type: none"> - Independently identifies the chief complaint. - Independently identifies appropriate diagnostic tests. - Correctly establishes a differential or definitive diagnosis based on data collected. 	<ul style="list-style-type: none"> - Independently identifies the chief complaint. And - Requires assistance to identify appropriate diagnostic tests. Or - Requires assistance to correctly establish a differential or definitive diagnosis based on data collected. 	<ul style="list-style-type: none"> - Requires assistance to identify the chief complaint. And - identify appropriate diagnostic tests. Or - correctly establish a differential or definitive diagnosis based on data collected. 	<ul style="list-style-type: none"> - Is unable to identify the chief complaint. Or - Is unable to identify appropriate diagnostic tests. Or - Is unable to correctly establish a differential or definitive diagnosis.
b. Comprehensive health history/HH (dental, medical, medications, and social/behavioral history)	<ul style="list-style-type: none"> Independently obtains a comprehensive HH or update. - Independently interprets the HH to recognize: <ul style="list-style-type: none"> - 1. oral and systemic disease, - 2. medication details, - 3. deviations from normal, - 4. the impact on dental care, and 	<ul style="list-style-type: none"> Independently obtains a comprehensive HH or update. And - Requires assistance to interpret the HH in one area. And - The ASA designation is correct. 	<ul style="list-style-type: none"> Requires assistance to obtain a comprehensive HH or update. Or - Requires assistance to interpret the HH in two or three areas. And - The ASA designation is correct. 	<ul style="list-style-type: none"> The HH is grossly incomplete or not updated or with little recognition of the need for a comprehensive history or update. Or - Fails to identify, interpret, or manage health problems that may have a significant impact on the delivery of dental care.

	<p>- 5. appropriate management (consults/follow-up/tests).</p> <p>- The ASA designation is correct.</p>			<p>Or</p> <p>- The ASA designation is inaccurate.</p>
c. Risk factors	<p>Independently:</p> <ul style="list-style-type: none"> - completes a diet and risk factor assessment. - interprets the diet and risk factor assessment and establishes the correct level of risk. - discusses with the patient and faculty the relationship between identified risk factors and oral disease. 	<p>- Independently completes a diet and risk factor assessment.</p> <p>And</p> <p>Requires assistance to:</p> <ul style="list-style-type: none"> - interpret the assessment and establish the correct level of risk. <p>Or</p> <ul style="list-style-type: none"> - discuss with the patient or faculty the relationship between identified risk factors and oral disease. 	<p>Requires assistance to:</p> <ul style="list-style-type: none"> - complete a diet and risk factor assessment. <p>And</p> <ul style="list-style-type: none"> - interpret the assessment and establish the correct level of risk. <p>Or</p> <ul style="list-style-type: none"> - discuss with the patient or faculty the relationship between identified risk factors and oral disease. 	<p>Does not complete the diet or risk factor assessment.</p> <p>Or</p> <ul style="list-style-type: none"> - Is unable to interpret the assessment to establish the correct level of risk. <p>Or</p> <ul style="list-style-type: none"> - Is unable to discuss the relationship between identified risk factors and oral disease.
II. Physical Examination a. Vital signs	<p>Independently:</p> <ul style="list-style-type: none"> - obtains and records vital signs accurately. - interprets findings as normal or abnormal. 	<p>- Independently obtains and records vital signs accurately.</p> <p>And</p> <ul style="list-style-type: none"> - Independently interprets findings as normal or abnormal. 	<p>Requires assistance to:</p> <ul style="list-style-type: none"> - obtain and/or record vital signs accurately. <p>Or</p> <ul style="list-style-type: none"> - interpret findings as normal or abnormal. 	<p>Vital signs are inaccurate or not obtained.</p> <p>Or</p> <ul style="list-style-type: none"> - Is unable to interpret findings correctly.




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