EMBLEM
IMAGES OF KDCRC
Moradabad, the second most populous district of Uttar Pradesh, due to its strategic location, offers excellent opportunities for professional and personal growth of young and buoyant minds. Kothiwal Dental College and Research Centre, (KDCRC) Moradabad, a division started by KCM Educational Society, on 10th January 1999; is unique among equals in terms of eminent faculty and strategic location in an integrated green campus. The organization is dedicated to provide positive and creative learning environment to Health care professionals. The College is committed to promote excellence in Dental education, Research and Oral health care along with Community service.

Being a reputed knowledge centre, KDCRC promotes knowledge resources that have been making their mark in respective segments. The College has earned laurels because of its discipline which has made it the most talked about college of this region. This is the synergistic effect of its strong management and well versed staff under the able hands of Mr. K. K. Misra, Director and Dr. Swatantra Agarwal, Principal; who have given a Midas touch to this college.

The College is fully equipped with ultra-modern equipment in its dental clinics, preclinical and research labs to create a congenial environment for teaching, learning and patient care. Along with it, the KCM society also runs a multi-speciality general hospital to meet the healthcare needs of the population of this region.

The institution has decided to get accredited by the National Assessment and Accreditation Council (NAAC), Bengaluru and I am confident that the faculty, staff and the students of this college shall leave no stone unturned to achieve the ambitious goal of achieving a top leadership position in the field of dental education and research.

I wish you success in all your future endeavors.

Mr. Salil Kothiwal
Kothiwal Dental College and Research Centre, (KDCRC) Moradabad, offers a splendid as well as unique prospect to aspiring dental professionals towards laying a strong foundation to their career dreams. We have had resounding responses of success stories by students from near and far who joined us, graduated and thereafter went on to pursue their careers in other parts of the country/world. KDCRC has grown from strength to strength in the last decade and in its everlasting effort towards pursuance of excellence, the institution has decided to get accredited by the National Assessment and Accreditation Council (NAAC), Bengaluru.

Over the past two years, a mammoth effort has gone into preparing for NAAC, and which, by all means, is no easy task. This requirement of preparing Self Study Report (SSR) has had its positive impact on the institution's academic potential. I am also very certain that, the run up to the NAAC accreditation process will help the institute to streamline its organizational and operational aspects for the future too.

I am sure that as per its traditions, KDCRC will continue to strive for excellence and glory keeping professional interests of its stakeholders in highest esteem.

I congratulate the Management personnel, Principal, NAAC Steering Committee, all the faculty and students involved in this accreditation preparation process and wish the institution the very best.

God bless,

Mr. K. K. Misra
Kothiwal Dental College and Research Centre was started with a mission to achieve the highest standards of competence and to churn out highly dedicated, spirited, focused and humble students with good personal and professional skills and competence so as to serve the field of dentistry in the country.

Started in the year 2000 with an initial batch of 100 BDS students, the institution has since grown both in stature and in facilities and has enabled itself to be counted amongst the stalwarts in the field of dental healthcare, in northern India. The institution now also offers 40 seats in the PostGraduate stream in various disciplines in dentistry as well as 20 seats for allied dental health professionals every year.

Set in a large and serene area of 9.65 acres. The verdant greens provide an ideal environment for the students away from the hustle and bustle of the city yet not too far away at the same time. The ample space within the campus provides all students with both physical and academic stimulus to excel. The availability of playground, library, gymnasium etc has gone a long way in providing the students with a well balanced approach towards life. The efforts of the management and the dedicated faculty has slowly started to bear fruits as the students have excelled in various fields including qualifying various examinations both nationally and internationally and the PG students winning laurels in various conferences.

The quest of KDCRC to impart quality professional knowledge to the young generations and to make them better human beings as well as competent professionals is energetically supported by the management and dedicated and experienced faculty of the institution. Each and every effort over the years has been a step in the direction towards achieving that goal and KDCRC's efforts are bearing fruit already. Large number of admissions, low attrition rate, good performance by students and alumni are indicative of such efforts.
The institution is very much aware that the dimensions and factors affecting quality of education are dynamic in nature and cannot be assessed by a single yard stick but only be monitored through the changes in regional, national and/or global trends in teaching and research. Thence, it is important for any centre of higher education to know that true service lies in imparting education, inculcating moral values and motivating young minds towards research for the future. The NAAC has developed tools/measures for continuous improvement of the quality of higher education in the HEIs. This college is highly committed to the core values of NAAC and believes strongly in propagating principles of NAAC. Therefore, in its everlasting quest for excellence, KDCRC has decided to undertake the NAAC process for which a Steering Committee was constituted on 24/01/2013. The Steering Committee has since painstakingly met numerous times in the preparation of their comprehensive SSR as required by NAAC. This has involved, painstaking efforts from the steering committee, other faculty and staff including alumni without whose input(s) the document could not have taken this shape. Overall, it has largely been a very enriching and learning exercise for this institution, its faculty and numerous valid, noteworthy points have been discussed, evaluated and implemented in the College which I am sure will make the organisation and functioning of this institute a lot better in the long run thus providing a better service to the society as a whole.

The institution is looking forward for a positive interaction with the NAAC Peer Team during their forthcoming visit to our institution. I am sure the interaction of our management, faculty, students and other stakeholders with honorable Naac Peer Team members, will immensely benefit our institution from their experience, point of view, comments and suggestions.

Dr. Swatantra Agarwal
Principal
MEMBERS FROM LEFT TO RIGHT:

UPPER ROW: Dr. N. N. SINGH, Dr. MANOJ CHAUDHARY.
MIDDLE ROW: Dr. SANTOSH KUMAR, Dr. SAMARTH AGARWAL,
Dr. RAVISHANKAR TL, Dr. SWATANTRA AGARWAL, Dr. V. K. ARORA.
LOWER ROW: Dr. RAJENDRA GOUDA PATIL, Dr. U. P. SINGH,
Dr. SEEMA CHAUDHARY.

<table>
<thead>
<tr>
<th>NAME</th>
<th>DESIGNATION</th>
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<tbody>
<tr>
<td>Dr. Swatantra Agarwal</td>
<td>Chairman, Principal, Kothiwal Dental College &amp; Research Centre</td>
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<tr>
<td>Dr. Ravishankar TL</td>
<td>Chief Coordinator, Professor, Public Health Dentistry</td>
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<tr>
<td>Dr. V. K. Arora</td>
<td>Member, Professor, Periodontology</td>
<td>![Signature]</td>
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<tr>
<td>Dr. Santosh Kumar</td>
<td>Member, Professor &amp; Head, Orthodontics &amp; Dentaofacial Orthopedics</td>
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<tr>
<td>Name</td>
<td>Member</td>
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<tr>
<td>Dr. N. N. Singh</td>
<td>Professor &amp; Head, Oral Pathology and Microbiology</td>
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<td>Dr. Seema Chaudhary</td>
<td>Professor &amp; Head Pedodontics and Preventive Dentistry</td>
<td>Seema</td>
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<tr>
<td>Dr. Samarth Agarwal</td>
<td>Professor, Prosthodontics and Crown &amp; Bridge</td>
<td>Sam</td>
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<tr>
<td>Dr. Rajendra Gouda Patil</td>
<td>Professor &amp; Head Oral medicine and Radiology</td>
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<tr>
<td>Dr. U. P. Singh</td>
<td>Professor Conservative Dentistry and Endodontics</td>
<td>Udai</td>
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<tr>
<td>Dr. Manoj Chaudhary</td>
<td>Professor &amp; Head Oral &amp; Maxillofacial Surgery</td>
<td>Man</td>
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</table>
VISION AND MISSION OF KDCRC

VISION

Commitment to nurture trained professional manpower and transforming them into proficient and receptive workforce for meeting the challenges of a dynamic and vibrant society.

Providing the highest standards of patient care, support and management services whilst meeting the dental health needs of community.

Model and generate professional goodwill, co-operation and friendship, to secure peace, cohesion and work mindedness and to achieve social and educational objectives.

Create a model of academic brilliance by offering best educational facilities that propagate a healthy and conducive research environment so as to transform Kothiwal Dental College & Research Centre into a leading dental institute of international acclaim.

MISSION

To cater to the professional needs of the students by providing quality educational services.

To inculcate good moral and ethical values in students and faculty members so as to facilitate building up their professional character and personal integrity.

To impart dental health awareness among the public and provide quality affordable services to different strata of the society.

To promote learning, teaching and assessment system which consents students to gain and develop the knowledge and skills appropriate to their chosen area of specialization.

To promote and practice research related activities.
# LIST OF ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Expanded Form</th>
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<tbody>
<tr>
<td>AC</td>
<td>Academic Council</td>
</tr>
<tr>
<td>AIDS</td>
<td>Acquired Immuno-Deficiency Syndrome</td>
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<tr>
<td>AIPG</td>
<td>All India Post Graduate Examination</td>
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<tr>
<td>AMC</td>
<td>Annual Maintenance Contract</td>
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<tr>
<td>AO</td>
<td>Administrative Office/Officer</td>
</tr>
<tr>
<td>BDS</td>
<td>Bachelor of Dental Surgery</td>
</tr>
<tr>
<td>BEE</td>
<td>Bureau of Energy Efficiency</td>
</tr>
<tr>
<td>BOS</td>
<td>Board of Studies</td>
</tr>
<tr>
<td>CBCS</td>
<td>Choice Based Credit System</td>
</tr>
<tr>
<td>CCTV</td>
<td>Closed-Circuit Television Camera</td>
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<tr>
<td>CDE</td>
<td>Continuing Dental Education</td>
</tr>
<tr>
<td>CDRI</td>
<td>Central Drug Research Institute</td>
</tr>
<tr>
<td>CFL</td>
<td>Compact Fluorescent Lamp</td>
</tr>
<tr>
<td>COMED-K</td>
<td>Consortium of Medical, Engineering and Dental Colleges of Karnataka</td>
</tr>
<tr>
<td>CONS</td>
<td>Conservative Dentistry &amp; Endodontics</td>
</tr>
<tr>
<td>CPU</td>
<td>Central Processing Unit</td>
</tr>
<tr>
<td>CRT</td>
<td>Cathode-Ray-Tube</td>
</tr>
<tr>
<td>CSIR</td>
<td>Council of Scientific &amp; Industrial Research</td>
</tr>
<tr>
<td>CTRI</td>
<td>Clinical Trials Research of India</td>
</tr>
<tr>
<td>DCI</td>
<td>Dental Council of India</td>
</tr>
<tr>
<td>DSIR</td>
<td>Department of Scientific &amp; Industrial Research</td>
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<tr>
<td>EMR</td>
<td>Electronic Medical Records System</td>
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<tr>
<td>ES</td>
<td>Examination Superintendent</td>
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<tr>
<td>FNAC</td>
<td>Fine Needle Aspiration Cytology</td>
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<tr>
<td>HLD</td>
<td>High Level Disinfection</td>
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<tr>
<td>Abbreviation</td>
<td>Full Form</td>
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<tr>
<td>HOD</td>
<td>Head of Department</td>
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<tr>
<td>HR</td>
<td>Human Resource</td>
</tr>
<tr>
<td>IAAC</td>
<td>Institutional Alumni Association Committee</td>
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<tr>
<td>IARC</td>
<td>Institutional Anti-ragging Committee</td>
</tr>
<tr>
<td>IBEC</td>
<td>Institutional Bio-safety and Environment committee</td>
</tr>
<tr>
<td>ICH-GCP</td>
<td>International Council of Hospitals- Good Conduct Protocol</td>
</tr>
<tr>
<td>ICMR</td>
<td>Indian Council of Medical Research</td>
</tr>
<tr>
<td>ICT</td>
<td>Information and Communication Technology</td>
</tr>
<tr>
<td>ICU</td>
<td>Intensive Care Unit</td>
</tr>
<tr>
<td>IDMC</td>
<td>Institutional Disaster Management Committee</td>
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<tr>
<td>IECAC</td>
<td>Institutional Extra-Curricular Activity Committee</td>
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<tr>
<td>IERB</td>
<td>Institutional Ethics &amp; Review Board</td>
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<tr>
<td>IFC</td>
<td>Institutional finance committee</td>
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<tr>
<td>IGDC</td>
<td>Institutional Grievance &amp; Disciplinary Committee</td>
</tr>
<tr>
<td>IHHC</td>
<td>Institutional Hostel &amp; Hospitality Committee</td>
</tr>
<tr>
<td>IIT</td>
<td>Indian Institute of Technology</td>
</tr>
<tr>
<td>ILLRC</td>
<td>Institutional Library &amp; Learning Resources Committee</td>
</tr>
<tr>
<td>IPMC</td>
<td>Institutional Purchase and Maintenance Committee</td>
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<tr>
<td>IPR</td>
<td>Intellectual Property Rights</td>
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<tr>
<td>IQAC</td>
<td>Internal Quality Assurance Cell</td>
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<tr>
<td>ISPWC</td>
<td>Institutional Student &amp; Patient Welfare Committee</td>
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<tr>
<td>KCM</td>
<td>Kailash Chandra Montessori</td>
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<td>KDCRC</td>
<td>Kothiwal Dental College &amp; Research Centre</td>
</tr>
<tr>
<td>LAN</td>
<td>Local Area Network</td>
</tr>
<tr>
<td>LoI</td>
<td>Letter of Intent</td>
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<tr>
<td>Abbreviation</td>
<td>Full Form</td>
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<tr>
<td>MCQ</td>
<td>Multiple Choice Questions</td>
</tr>
<tr>
<td>MDS</td>
<td>Masters of Dental Surgery</td>
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<td>MoU</td>
<td>Memorandum of Understanding</td>
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<tr>
<td>NAAC</td>
<td>National Assessment and Accreditation Council</td>
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<tr>
<td>NGO</td>
<td>Non-Government Organization</td>
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<tr>
<td>NKN</td>
<td>National Knowledge Network</td>
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<tr>
<td>NRHM</td>
<td>National Rural Health Mission</td>
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<td>NSC</td>
<td>NAAC Steering Committee</td>
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<tr>
<td>OBC</td>
<td>Other Backward Caste</td>
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<tr>
<td>OMDR</td>
<td>Oral Medicine &amp; Radiology</td>
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<tr>
<td>OMFS</td>
<td>Oral &amp; Maxillofacial Surgery</td>
</tr>
<tr>
<td>OP</td>
<td>Oral Pathology &amp; Microbiology</td>
</tr>
<tr>
<td>OPD</td>
<td>Outpatient Department</td>
</tr>
<tr>
<td>ORTHO</td>
<td>Orthodontics and Dentofacial Orthopedics</td>
</tr>
<tr>
<td>OSCE</td>
<td>Objective Structured Clinical Examination</td>
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<tr>
<td>OSPE</td>
<td>Objective Structured Practical Examination</td>
</tr>
<tr>
<td>OT</td>
<td>Operation Theatre</td>
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<tr>
<td>PBL</td>
<td>Problem Based Learning</td>
</tr>
<tr>
<td>PEDO</td>
<td>Pedodontics and Preventive Dentistry</td>
</tr>
<tr>
<td>PERIO</td>
<td>Periodontology</td>
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<tr>
<td>PG</td>
<td>Postgraduate</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>Doctor of Philosophy</td>
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<tr>
<td>PHD</td>
<td>Public Health Dentistry</td>
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<tr>
<td>PLIS</td>
<td>Performance Linked Incentive Scheme</td>
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<tr>
<td>PROSTHO</td>
<td>Prosthodontics and Crown &amp; Bridge</td>
</tr>
<tr>
<td>RVG</td>
<td>Radio Visio Graphy</td>
</tr>
<tr>
<td>SC/ST</td>
<td>Scheduled Caste/Scheduled Tribe</td>
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<tr>
<td>Acronym</td>
<td>Description</td>
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<td>---------</td>
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<tr>
<td>SNIP</td>
<td>Source Normalised Impact Per Paper</td>
</tr>
<tr>
<td>SOP</td>
<td>Standard Operating Procedure</td>
</tr>
<tr>
<td>SSR</td>
<td>Self Study Report</td>
</tr>
<tr>
<td>TA/DA</td>
<td>Travel Allowance/Dearness Allowance</td>
</tr>
<tr>
<td>TFT</td>
<td>Thin-Film Transistor</td>
</tr>
<tr>
<td>TLE</td>
<td>Teaching, Learning and Evaluation</td>
</tr>
<tr>
<td>UG</td>
<td>Undergraduate</td>
</tr>
<tr>
<td>UGC</td>
<td>University Grants Commission</td>
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<tr>
<td>UP</td>
<td>Uttar Pradesh</td>
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<td>UPCAT</td>
<td>Uttar Pradesh Combined Admission Test</td>
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<td>World Health Organization</td>
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EXECUTIVE SUMMARY

Kothiwal Dental College & Research Centre, Moradabad; a division of KCM Educational Society, started by Shri Sahu Rameshwar Saran Kothiwal on 10th January 1999, is situated on UP State Highway 49, connecting the prominent city of Haridwar. It is spread on a sprawling area of 9.5 acres. The verdant greens provide an ideal environment for students away from the hustle and bustle of the city yet not too far away at the same time. Being on the Highway it is well connected with both urban as well as vast rural areas, thus catering distinguished services to the multitude of populace around. The Dental College started with an initial strength of 100 BDS seats in year 2000. The MDS course started in all 9 specialities in year 2005. KCM society also runs a General Hospital and various schools in Moradabad and Chandausi.

Academics and Socio-Economic Environment – Thrust, Endeavours and Outcomes

At the time when socio-economic vagaries were plenty and educational thrust was lacking in the region, KDCRC was born to take the challenges of educating the youth in and around Moradabad as well as far off areas. The greater challenge lay in providing high quality professional education to students from all sections of the society. It was anticipated that students from various castes, cultures, economic and social backgrounds would arrive at KDCRC with enormous expectations. The institution was aware that in these modern times, the social, ethical and moral values do take a backseat for the younger generation and so, inculcating certain important characteristics, personality traits and good values also was an uphill task. The project since its inception has embarked upon the educational journey in earnest and has done fairly well thus far. The institution has a good name in the region and owes it to the positive and committed leadership, focus and dedication shown by the faculty and management staff. The thrust of the institute has also been directed towards co-curricular activities of the students for their overall growth and personality development. Varied facilities have been provided to the students from the beginning to cater for their non academic endeavours. The institution has always promoted the inculcation of positive attitude towards building research acumen and interest. This has had good overall effect on the exposure to and performance of the students in research activities. There is a continued and undivided focus of this institution on imparting the latest academic knowledge and development of professional skills in the younger generation so that they perform excellently in the field when they graduate. A systematic method of examination and evaluation has been followed throughout these long years of development of the college so that a good name is earned by the institute outside the state also. A balanced emphasis has been laid on addressing the socio-economic disparities among the students since students from all walks of life arrive here for their dreams.
### Criteria-wise Summary Report

#### Criteria I: Curricular Aspects

Kothiwal Dental College and Research Centre (KDCRC) is an affiliated college under M.J.P. Rohilkhand University, Bareilly. It offers Dental Hygienist, BDS and MDS courses, which are recognized by the Dental Council of India (DCI). All programs offered by the institute are self-financing.

The institution has clearly stated/defined goals and objectives, which are reflected in all its academic programs. The institute strictly follows guidelines laid down by the University & DCI in all its spheres including curriculum design, development and revision of the curriculum, it also addresses employability, innovation, research, community needs etc. The institute follows global trends by using latest materials, equipments and techniques. Institute also provides additional skill-oriented programs relevant to regional needs and takes initiatives in behavioural & social science, medical ethics/bio-ethics/nursing ethics, orientation to research, medico legal issues etc. The institute has constituted Institutional Ethics and Review Board (IERB) to monitor all the research activities. The institute regularly conducts/organize various Continuing Dental Education (CDE) Programs/Workshops which assist in knowledge enhancement as well as development of clinical skills. Institute also organize a quarterly scientific session. “Sanchetana”. Beside this, institute also takes the initiative towards the overall personality development, addressing physical, mental, emotional and spiritual well being of the student by celebrating various National Health Programs e.g. No Tobacco Day, Oral Cancer Day, World AIDS Day, Saraswati Pooja, Dipawali, Holi, Dusshera, Christmas and Eid etc. and also by organizing annual cultural and sports week. Adequate emphasis is laid on patient safety, confidentiality, rights and education. Feedback from the students are taken on faculty, course, subject, curriculum, and are further analyzed by the Academic Council.

#### Criteria II: Teaching-Learning and Evaluation

The institute ensures publicity and transparency in its admission process. Admission to the BDS and MDS courses is by centralized examination governed by Association of Private Medical & Dental Colleges of U.P. i.e. UP Common Admission Test (UPCAT Dental/MDS). Initiatives are also taken by the institute to cater to the needs of SC/ST, OBC, and women, persons with varied disabilities, economically weaker sections, outstanding achievers in sports and other extracurricular activities.

The institution organizes orientation/induction program for Fresher’s by introducing institute, faculty, Female rights and responsibilities, Anti-ragging policy, research methodology, biostatistics, dental ethics, national integration etc. The institution identifies and responds to the learning needs of advanced and slow learners by conducting remedial classes and by providing additional
Executive Summary

guidance through Placement and Counselling Cell. Mentor-Mentee Program is also in place for the student counselling and guidance. The institution endeavours its graduate just not to be a competent dentist, but also a responsible citizen by inculcating moral and ethical values. Institute encourages its students to practice Yoga and Meditation, by providing temple and community hall facility inside the campus premises. Outdoor and indoor sports and gym facility is also provided to the students. Students are encouraged to eat and stay healthy.

Learning in this institute is made student-centric. The teaching-learning and evaluation schedules are planned according to the guidelines laid down by its affiliated University and DCI. It has a structured mechanism for its teaching learning process, and provides course objectives, outlines and schedules at the commencement of the each academic session. Institutions regularly inviting experts/people of eminence to augment teaching-learning activities. Various steps are taken by the institute to transition from conventional/traditional classroom into an e-learning environment. This is achieved by regularly organizing webinars, tele-dentistry etc. and encouraging them to utilize e-learning resources by providing Wi-Fi facility, ICT enabled lecture halls & seminars room, ICT cell, EBSCOhost database, e-resources at central library etc.

Institution also ensures transparency in the evaluation process. Institute has its own Examination Manual wherein conduct of examination is summarized according to the guidelines laid down by the DCI and University. Recently OSPE/OSCE has been introduced in all the departments. Prompt redressal of grievances with reference to examinations is made.

The institute has sufficient, professionally competent and highly qualified pool of human resource to meet the requirements. Various measures have been taken by the Institute to retain its faculty, with an annual attrition rate of less than 6% (approx.). The institution regularly plans and facilitates its faculty to meet the changing requirements of the curriculum by providing academic leave and remuneration for attending various conferences/CDE program/convention/workshops. Faculty are encouraged to prepare computer-aided teaching/learning materials and utilize reflective learning, simulations, evidence based dentistry, problem based learning etc. like innovations in their teaching learning processes, as well as in clinical setting. Faculty and students receiving awards for excellence in teaching at the state, national and international level are given due recognition.

**Criteria III: Research, Consultancy and Extension**

Research & Development is an integral part of institute. It has a proactive system to promote research activities by inculcate research culture and scientific temperament in its faculty and students. Various initiatives have also been taken by the institute to promote social-justice and good citizenship
amongst its students and staff. Institutional Ethics and Review Board (IERB) monitors and addresses issues related to research or any ethical related matter pertaining to Humans or Animals. It also monitors any type of misconduct, malpractice, copyright, plagiarism etc. and take action accordingly. All the faculty and students have to follow the guidelines laid down by the IERB.

Most of the departments are equipped with sufficient infrastructure to carry out basic and to some extent advanced research. The institute is Wi-Fi enabled, and each department are also equipped with computer with internet connection, printer and scanner. Most of the research projects (faculty & students) undertaken or undergoing are funded by the institute. The institution had allocated separate budget head for research, which is approx 2 %. (INR 2500000.00/year). Faculty members are also encouraged to pursue higher research and training in premier institutions within the country, i.e. fellowship in Aesthetic Medicine at Institute of Lasers and Aesthetic Medicine, New Delhi and fellowship in Cleft and Craniofacial Surgery, at SRMS institute, Chennai.

In the past, many workshops/training programs/sensitization programs have been conducted by the institution in the past to promote research. The institute also regularly organizes various lectures pertaining to dentistry, research methodology, ethics etc. by various eminent/guest faculty. Faculty/students are also encouraged to attend National/International conference and workshops, and are also provided with travel grant. During past years faculty/students of KDCRC have received numerous research awards in many conferences and conventions. Faculty and students are provided free access to institutional online database “EBSCOhost online database” through which faculty and students can freely assess many National and International journals, by providing them with username and password.

Institute also promotes multidisciplinary/interdisciplinary/transdisciplinary research within the institution. Many interdepartmental projects and research in collaboration with national institutes/industries have been conducted in the past, and some of them are in progress. Interdepartmental scientific program “Sanchetna” is conducted on regular basis. Institute also regularly publishes its own peer reviewed, indexed journal “Chronicles of Dentistry” which is published biannually having an ISSN No 2278-8603. Faculty/students of KDCRC are also motivated to publish their research work in various peer reviewed National/International indexed journals, and are also been given publication-based promotion/incentives. Till now a total number of 518 papers have been published by the faculty/students of the institute.
Many faculty of the institute are appointed as DCI inspectors, external examiner/paper setter for various Universities of National repute, guest speakers, judge, serving as an editorial boards/reviewer board of National and International journals etc. Faculty and students are encouraged to participate in carrying out various social outreach program, and empower the underprivileged and the most vulnerable sections of society. Institute provides Consultancy to its stakeholders, and are also publicized regularly from time to time. Few important consultancies undertaken by the institute during the last four years are; Consultancy to DCI, NGOs, nearby villages and schools (Mobile Van & Satellite Center), cleft lip and palate patients (Smile Train Project), old age homes. The institute promotes college-neighbourhood network by taking initiative directly and/or through Rotary club, Lions Club, Resident Welfare Associations, responding to the local oral health needs and demands of the community balancing the network by giving due weightage to each of the activity by providing the resources in the form of expert manpower, infrastructure support, treatment & medicine at subsidized rates etc. These collaborations have contributed positively to undertake various research projects in diverse areas of the dentistry, and had also improved and enhanced academic and research experience of KDCRC faculty and students.

Criteria IV: Infrastructure and Learning Resources

Kothiwal Dental College and Research Centre (KDCRC) is situated on state highway 49, connecting Haridwar, has an area of 9.95 acres with built up area of 29601.08 sq. mtr. The campus is a very environment friendly, pleasant and open type of campus which gives an overall good feeling of belongingness. Being situated on the highway, it is well connected to city residential and nearby villages. The institute has sufficient infrastructure facilities to cater the needs of its stakeholders and has taken extensive measures to ensure campus safety and security round-the-clock.

Dental Institute, General Hospital, Faculty Residence, Boys & Girls Hostel, Temple, Gymnasium, Sports Ground, Cafeteria and other allied facilities are present inside the campus. The institute has four well-furnished ICT enabled lecture theatre, all the departments are fully equipped with ICT enabled seminars halls, eight fully furnished laboratories/research lab with specialized equipments & materials/reagents, state of art library with e-resource materials, Examination Halls etc. Separate cabins are provided for Heads of Department,
Additional Professors, Readers and Senior Lecturers. PG students are also provided with work stations, and separate common room facility for girls and boys. All the departments of the institute are fully equipped (infrastructure wise, equipments, instruments, materials etc.). A total no of 391 dental chairs are installed in the institute, with one fully equipped Mobile Dental Clinic & one ambulance (available 24x7). The institute has its own fully functional General Hospital, and has liaison with Pandit Deen Dayal Upadhyay District Hospital, Moradabad. It has two Pharmacy shops situated inside the college premises (available 24x7). Most of the treatments at the Dental Institute are free or at highly concessional rates. It has got the patient turnover of 120000 approx/year. The Institute follows Good Clinical Practice Guidelines as per ICH-GCP, and has an efficient and effective system for disposal of bio-hazardous waste. Patient feedback system is in place and quick remedial actions/measures are taken based on such information.

The institute has fully equipped, functional Central Library with a seating capacity of 165. It consists of approx.4000 text books, 411 reference books, 192 dissertations and 29 journal titles. It is also equipped with e-learning resource material, Book Bank consisting of 700 books and ICT facility. The institute have also subscribed for EBSCO host research data base. Continuous monitoring and updation of library is done by Institutional Library and Learning Resource Committee.

The institution has a comprehensive IT mechanism, and its management is done by A2Z Multiservice IT Solutions Pvt Ltd. Bareilly. A total number of 40 computer systems with configurations ranging from Celeron 1.70 GHZ to Pentium 4 CPU 2.5 GHZ are installed, with an internet facility of 100 mbps. The institute also stress on electricity conservation and green computing. Maintenance of infrastructure facilities, services and equipments is done by Institutional Purchase and Maintenance Committee headed by the Principal.

Criteria V: Student Support and Progression

Institute has a well-established and functional system for student support and mentoring (personal, academic and career counselling) i.e. Mentor-Mentee Program. Institutional Grievance Cell, Anti-Ragging Committee, Student Welfare Committee, Extra-Curricular Committee, Hostel and Mess Committee, which are constantly monitored, and timely redressal of student grievances is made. The institute organizes personal enhancement and development programs such as career counselling, soft skills development, career-path-identification, and orientation to well-being for its students. Orientation programs organized for freshers includes soft skill development, communication skills, English language, spiritual, stress management, research methodology etc. Institutional Students/Patients Welfare Committee and some senior faculty cater various psycho-social needs of the students. The institute also provides support to physically challenged/differently-abled students, SC/ST, OBC and economically weaker sections students, participating in
The institute publishes it biannual peer reviewed indexed journal “Chronicles of Dentistry” where in students are also encouraged to contribute. Information/guidance regarding various examinations is made available to the students at Placement and Counselling Cell, and is also displayed at Information and Deployment Board. Institute also provides additional academic support, academic flexibility in the examinations, balanced diet, incentives, sports uniform and materials for the students participating in various extra-curricular activities. Institution also ensures participation of female students in various intra-and inter-institutional curricular as well as extra-curricular activities. The institute has a registered Alumni Association, regular meets are conducted and feedback is obtained from its members.

**Criteria VI: Governance, Leadership and Management**

The institute has a well defined vision and mission that also addresses the needs of all its stakeholders. It has got a strong internal organizational structure, and an effective decision making process. Information regarding the institute, faculty and their areas of specialization, days of availability, timings is available on the college website www.kothiwal dentalcollege.com, which is updated regularly. Steps has been taken by the institute to develops e-governance strategies, ensuring the organization’s management system development, implementation and continuous improvement, reinforcing a culture of excellence, identifying organizational needs and striving to fulfil them. Institute also promotes a culture of participative management and also groom leadership at various levels. The institution is always keen in promoting the excellence both in academic as well as in clinical field. It also inculcates sound value system, fostering global competencies, National development etc. among its students. Audits are regularly conducted to monitor and to ensure oral health care quality, patient safety and satisfaction by various institutional committees (Institutional Ethics and Review Board, Institutional Bio-safety and Environmental Committee) and Feedback system, which are regularly reviewed in various meetings. A systematic and robust mechanism is in place to document, compile, analyze and redress the feedback mechanism whilst maintaining the necessary confidentiality.

Significant efforts have been made by the institute to enhance the professional development of teaching and non-teaching staff. Faculty members are motivated and are given various incentives to attend hands on courses, workshops, Continuing Professional Development Programs. Annual Report from each department is compiled to form Institutional Annual Report. Based on Performance linked Incentive System (PLIS), increments or academic promotions are given. Various welfare schemes are made available for teaching and non-teaching staff i.e. in Campus accommodation, 24x7 free power supply, medical/dental facility & drugs at highly subsidized rate, Provident Fund, maternity leave, financial support (reimbursement facility) etc. Most of the
treatment provided by the hospital to its stakeholders is free or at highly subsidized rates. Institute also organizes free Oral Health Camps and Health Mela (educational/treatment) in nearby villages. Regular academic and administrative audits are conducted by the Academic Council to ensure quality assurance. These audits are conducted at departmental as well as institutional level. The institution ensures that grievances/complaints are promptly attended to and resolved effectively for better stakeholder-relationship.

Criteria VII: Innovations and Best Practices
The institute has taken various initiatives to keep campus green and eco-friendly. These include energy conservation, water harvesting, bio-hazard or waste management, plantation of trees, botanical/medicinal plants as well as e-waste management etc. These are constantly monitored by Institutional Biosafety and Environment committee. The institution also ensures that robust infection control and radiation safety measures are effectively implemented and monitored. Institute has also hired a professional agency Sembramky Environment Management Pvt. Ltd. from Ghaziabad for managing the hospital’s Bio-hazardous waste. Radiology department follows a strict protocol for radiation safety i.e lead barriers, lead jackets. Constant monitoring of radiation exposures is done by using TLD badges. The institute has also made innovations in examination pattern, teaching learning & evaluation process, learning resources, governance, leadership and management. The best practices adopted by the institute include nurturing and promoting research and implementing welfare measures for the key stakeholders ie. students.
INSTITUTIONAL SWOC ANALYSIS

Strengths

- Well-maintained, spacious and a lush green campus providing healthy living and a congenial environment
- Recognized UG and PG programs by Statutory bodies (DCI & University)
- Professionally highly qualified, experienced and enthusiastic faculty
- Best quality treatment of patients at most affordable rates
- Abundance of clinical material for academics and research
- Community outreach programs
- Retention of faculty
- Promoting research orientation and abilities among students and faculty
- Welfare measures for all stakeholders

Weaknesses

- Faculty exchange programs
- Collaboration with external funding agencies
- Infrastructure and facilities for advanced research
- Students exchange programs

Opportunities

- Increasing the number of satellite centers
- Procuring modern equipments, instruments, materials, softwares and learning resources etc.
- Conducting regular guest lectures, CDE, conventions, workshops, conferences etc.
- Starting Ph.D program in Dental Sciences

Challenges

- Providing dental treatments at subsidized rates
- Escalating costs of dental materials, equipments and consequent treatment
- Maintaining treatment standards
- Maintaining Teaching-Learning standards
- Patient satisfaction
PROFILE OF THE INSTITUTION

1. **Name and Address of the Institution:**

<table>
<thead>
<tr>
<th>Name:</th>
<th>Kothiwal Dental College &amp; Research Centre, Mora Mustaqueem, Kanth Road, Moradabad</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>Mora Mustaqueem, Kanth Road, Moradabad</td>
</tr>
<tr>
<td>City:</td>
<td>Moradabad</td>
</tr>
<tr>
<td>Pin:</td>
<td>244001</td>
</tr>
<tr>
<td>State:</td>
<td>Uttar Pradesh</td>
</tr>
<tr>
<td>Website:</td>
<td><a href="http://www.kothiwaldentalcollege.com">www.kothiwaldentalcollege.com</a></td>
</tr>
</tbody>
</table>

2. **For Communication:**

<table>
<thead>
<tr>
<th>Designation</th>
<th>Name</th>
<th>Telephone with STD code</th>
<th>Mobile</th>
<th>Fax</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal</td>
<td>Dr. Swantantra Agarwal</td>
<td>O: 0591-2452994 R: 0591-2452922</td>
<td>9837043736</td>
<td>0591-2452996</td>
<td><a href="mailto:drswatantra@yahoo.co.in">drswatantra@yahoo.co.in</a></td>
</tr>
</tbody>
</table>

3. **Status of the Institution:**

Affiliated College

4. **Type of University:**

Not Applicable

5. **Type of College:**

Dentistry

6. **Source of funding:**

Society

7. **a. Date of establishment of the institution:**

10/01/1999

b. **In the case of university, prior to the establishment of the university, was it a/an**

- Autonomous College
- Constitutional College
- Affiliated College
- PG Centre
- De novo institution
- Any other (specify)

Not Applicable
c. In the case of college, university to which it is affiliated
   Mahatma Jyotiba Phule Rohilkhand University, Bareilly
   (Annexure No. 1)

8. State the vision and the mission of the institution.
   Our Vision
   - Commitment to nurture trained professional manpower and transform them into proficient and receptive workforce for meeting the challenges of a dynamic and vibrant society.
   - Providing the highest standards of patient care, support and management services whilst meeting the dental health needs of community.
   - Model and generate professional goodwill, co-operation and friendship, to secure peace, cohesion and work mindedness and to achieve social and educational objectives.
   - Create a model of academic brilliance by offering best educational facilities that propagate a healthy and conducive research environment so as to transform Kothiwal Dental College & Research Centre into a leading dental institute of international acclaim.

   Our Mission
   - To cater to the professional needs of the students by providing quality educational services.
   - To inculcate good moral and ethical values in students and faculty members so as to facilitate building up their professional character and personal integrity.
   - To impart dental health awareness among the public and provide quality affordable services to different strata of the society.
   - To promote learning, teaching and assessment system which consents students to gain and develop the knowledge and skills appropriate to their chosen area of specialization.
   - To promote and practice research related activities.

9. Details of recognition/approval by statutory/regulatory bodies other than UGC (DCI)

<table>
<thead>
<tr>
<th>Under Section/ clause</th>
<th>Day, Month and Year (dd/mm/yy)</th>
<th>Validity</th>
<th>Proogram/ Institution</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subsection 2 of section 10 of 07/09/2004</td>
<td>Permanent</td>
<td>BDS</td>
<td>100 Seats</td>
<td></td>
</tr>
<tr>
<td>Section 2 of section 10 of Dentist Act 1948</td>
<td>Date</td>
<td>Type</td>
<td>Course</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>------------</td>
<td>----------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>01/09/2009</td>
<td>Permanent</td>
<td>MDS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>29/03/2012</td>
<td>Permission</td>
<td>MDS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>20/03/2013</td>
<td>Permission</td>
<td>MDS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2/04/2013</td>
<td>Permission</td>
<td>MDS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30/07/2013</td>
<td>Permanent</td>
<td>MDS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15/04/2013</td>
<td>Permission</td>
<td>MDS</td>
<td></td>
</tr>
</tbody>
</table>

(Annexure No. 2)
10. Has the institution been recognized for its outstanding performance by any national / international agency such as DSIR, DBT, ICMR, UGC-SAP, AYUSH, WHO, UNESCO etc.?
   No

11. Does the institution have off-campus centres?
   Yes the institution has one mobile dental unit and one satellite clinic.

12. Does the institution have off-shore campuses?
   No

13. Location of the campus and area:

<table>
<thead>
<tr>
<th>Location*</th>
<th>Campus area in acres</th>
<th>Built up area in sq.mts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main campus area</td>
<td>Rural</td>
<td>9.95</td>
</tr>
<tr>
<td>Other campuses in the country</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Campuses abroad</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

   (* Urban, Semi-Urban, Rural, Tribal, Hilly Area, any other (specify))

14. Number of affiliated/constituent institutions in the university
   Not Applicable

15. Does the University Act provide for conferment of autonomy to its affiliated institutions? If Yes, give the number of autonomous colleges under the jurisdiction of the University.
   Not Applicable

16. Furnish the following information:

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accredited colleges by any professional body/ies</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Accredited course / department by any professional body/ies</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Affiliated colleges</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Autonomous colleges</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
17. **Does the Institution conform to the specification of Degrees as enlisted by the UGC**

Yes

18. **Academic programs offered and student enrolment**

(Enclosed list of academic programs offered and approval / recognition details issued by the statutory body governing the program)

<table>
<thead>
<tr>
<th>Programs</th>
<th>Number of programs</th>
<th>Number of students enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG - BDS</td>
<td>One (1)</td>
<td>100 per year</td>
</tr>
<tr>
<td>PG - MDS</td>
<td>Nine (9)</td>
<td>40 per year</td>
</tr>
<tr>
<td>Diploma - Dental Hygienist</td>
<td>One (1)</td>
<td>20 per year</td>
</tr>
<tr>
<td>Any other (specify)</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Total</td>
<td>Eleven (11)</td>
<td>160 per year</td>
</tr>
</tbody>
</table>

19. **Provide information on the following general facilities (campus-wise):**

- **Auditorium/seminar complex with infrastructural facilities**
  - Yes

- **Sports facilities**
  - Outdoor: Yes
  - Indoor: Yes

- **Residential facilities for faculty and non-teaching staff**: Yes

- **Cafeteria**: Yes

- **Health Centre**
  - First aid facility: Yes
  - Outpatient facility: Yes
  - Inpatient facility: Yes
  - Ambulance facility: Yes
  - Emergency care facility: Yes
  - Health Centre staff
    - Qualified Doctor: Full time (Yes)
    - Qualified Nurse: Full time (Yes)

- **Facilities like banking, post office, book shops, etc.**: Yes
Profile of the Institution

- Transport facilities to cater to the needs of the students and staff: Yes
- Facilities for persons with disabilities: Yes
- Animal house: No
- Incinerator for laboratories: Yes
- Power house: Yes
- Fire safety measures: Yes
- Waste management facility, particularly bio-hazardous waste: Yes
- Potable water and water treatment: Yes

20. Working days / teaching days during the past four academic years:

<table>
<thead>
<tr>
<th></th>
<th>Working Days</th>
<th>Teaching Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number stipulated by the Regulatory Authority</td>
<td>240</td>
<td>240</td>
</tr>
<tr>
<td>Number by the Institution</td>
<td>262</td>
<td>266</td>
</tr>
</tbody>
</table>

(‘Teaching days’ mean days on which classes / clinics were held. Examination days are not to be included.)

21. Has the institution been reviewed or audited by any regulatory authority? If so, furnish copy of the report and action taken thereupon (Last four years.) DCI
Yes, the institute has been reviewed by Dental Council of India (Annexure No. 2).

22. Number of positions in the institution

<table>
<thead>
<tr>
<th>Positions</th>
<th>Teaching Faculty</th>
<th>Non teaching staff</th>
<th>Technical staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProfeSSor</td>
<td>AssociaTe Professor/Reader</td>
<td>Assistant Professor/ Senior Lecturer</td>
<td>Lecturer/ Tutor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Kothiwal Dental College & Research Centre, Moradabad
### Profile of the Institution

<table>
<thead>
<tr>
<th>Sanctioned by the Government Recruited Yet to recruit</th>
<th>NA</th>
<th>NA</th>
<th>NA</th>
<th>NA</th>
<th>NA</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sanctioned by the Management/Society or other authorized bodies</td>
<td>25</td>
<td>26</td>
<td>41</td>
<td>11</td>
<td>76</td>
<td>30</td>
</tr>
<tr>
<td>Recruited</td>
<td>25</td>
<td>26</td>
<td>41</td>
<td>11</td>
<td>76</td>
<td>30</td>
</tr>
<tr>
<td>Yet to recruit</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Stipulated by the regulatory authority Cadre ratio</td>
<td>26</td>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recruited</td>
<td>100%</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yet to recruit</td>
<td>Nil</td>
<td>Nil</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of persons working on contract basis</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
</tbody>
</table>

(Annexure No. 3)

#### 23. Qualifications of the teaching Staff

<table>
<thead>
<tr>
<th>Highest qualification</th>
<th>Professor</th>
<th>Associate Professor/Reader</th>
<th>Assistant Professor</th>
<th>Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td>Permanent teachers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.M. / M.Ch</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
### Emeritus, Adjunct and Visiting Professors

<table>
<thead>
<tr>
<th></th>
<th>Emeritus</th>
<th>Adjunct</th>
<th>Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Distinguished Chairs Instituted

Not Applicable

### Hostel

- **Boys’ hostel**
  - Number of hostels: ONE(1)
  - Number of inmates: 90
  - Facilities: Mess, Guest Room

- **Girls’ hostel**
  - Number of hostels: ONE(1)
  - Number of inmates: 223
  - Facilities: Mess, Guest Room

- **Overseas students hostel**
  - Number of hostels: None
  - Number of inmates: None
iii. Facilities
   - Hostel for interns: None
   - PG Hostel:
     i. Number of hostels: TWO (2)
     ii. Number of inmates: 98
     iii. Facilities:
        Well furnished single Occupancy room, Mess, Guest Room

27. Student enrolled in the institution during the current academic year, with the following details:

<table>
<thead>
<tr>
<th>Student Enrolment-</th>
<th>UG</th>
<th>PG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td>Number of students from the same state where the institution is located</td>
<td>16</td>
<td>34</td>
</tr>
<tr>
<td>Number of students from other states</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Number of NRI Students</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Number of overseas students</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
<td>40</td>
</tr>
</tbody>
</table>

28. Health Professional Education Unit / Cell/ Department
   - Year of establishment: 10/01/1999
   - Number of continuing education programs conducted (with duration)

<table>
<thead>
<tr>
<th>Name of the program</th>
<th>2010-11</th>
<th>2011-12</th>
<th>2012-13</th>
<th>2013-14</th>
<th>2014 till date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Induction /Orientation</td>
<td>02</td>
<td>02</td>
<td>02</td>
<td>02</td>
<td>02</td>
</tr>
<tr>
<td>Refresher</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Post Graduate (Basic Science Training)</td>
<td>8 months</td>
<td>8 months</td>
<td>8 months</td>
<td>8 months</td>
<td>8 months</td>
</tr>
</tbody>
</table>
29. Does the university offer Distance Education Programs (DEP)?
   No

30. Is the institution applying for Accreditation or Re-Assessment?
   Accreditation  ✔️  Cycle 1  ✔️

31. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4)
   Not Applicable

32. Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated / constituent/ autonomous colleges under the university.
   Not Applicable

33. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR)
   The NAAC Steering Committee was constituted on 24/01/2013.

34. Any other relevant data, the institution would like to include (not exceeding one page).
   Along with responsive management and Principal, following programs, facilities and institutional committees help in smooth functioning of institute.
   ✴ Orientation program
   ✴ Mentor-Mentee program
   ✴ Total Power back-up in hostels and college
   ✴ Round the clock security
   ✴ In campus Medical facility
   ✴ Institutional Ethics and Review Board
   ✴ Institutional Anti-Ragging Committee/Grievance Committee
   ✴ Student/Patient Welfare Committee
   ✴ Extra-curricular Committee which includes Sports activities.
   ✴ Bio-safety and Environment Committee
   ✴ Feed-back system.
CRITERION I
CRITERION I: CURRICULAR ASPECTS

1.1 CURRICULUM PLANNING, DESIGN AND DEVELOPMENT

1.1.1 Does the institution have clearly stated goals and objectives for its educational program?
Yes, the institution has the following goals and objectives, emphasizing on quality of dental education, dental health care delivery, promoting research activities and instilling ethical and moral professional values.

Goals:
- To cater to the needs of the students by rendering high quality education.
- To develop a high moral and ethical professional character in the students.
- To impart dental health awareness among the public and provide quality affordable services to different strata of the society.
- To activate such teaching, learning and assessment system that facilitates students to gain and develop the knowledge and skills appropriate to their chosen educational and/or career path.
- To promote quality research in the field of dentistry.

Objectives:
- Commitment to nurture trained professional manpower, make them proficient in and receptive to the challenges of a dynamic and vibrant society.
- To maintain the highest standards of patient care; and to meet the dental needs of local community.
- Model and generate professional goodwill, co-operation and friendship, to promote peace, cohesion and work mindedness so as to meet social and educational aspirations of masses.
- To set a model of academic brilliance by offering educational and research facilities which open up research environment and make Kothiwal Dental College & Research Centre the leading dental institute regionally, nationally and internationally.

1.1.2 How are the institutional goals and objectives reflected in the academic programs of the institution?
The academic programs of the institution are in accordance with the institute’s goals and objectives in a deliberate manner such that they:
- Impart dental education to all the students and enhance their academic standards through highly skilled and trained full time faculty members.
Motivate the students towards contemporary challenges with the help of introduction to modern techniques and innovations in dentistry and by training them using the latest materials, instruments and procedures.

Develop competitive skills through co-curricular activities like sports, quizzes, debates etc.

Include the good system of dental education wherein students are trained in educating the masses through camps and school dental programs. Counselling of all patients is also done by students and faculty members in the respective departments.

The institute has an Institutional Ethics and Review Board and a Disciplinary Committee which looks into the ethical and moral issues in the institute.

The institute actively promotes research by providing various facilities. The IERB addresses all matters pertaining to research related activities in the institute.

The treatment provided in the institute is at highly subsidized rates and also free of cost for patients in camps.

1.1.3 Does the institution follow a systematic process in the design, development and revision of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).

Yes, the institute follows a course curriculum prescribed and approved by the DCI and M. J. P. Rohilkhand University, Bareilly. The Academic Council continuously monitors and works on the design, development and revision of the curriculum, based on inputs from various sources. Institution regularly participates in the Board of Studies meeting of the University conducted annually. Any revision in the curriculum advised by the DCI is discussed and implemented.

1.1.4 How does the curriculum design and development meet the following requirements?
The curriculum adopted by the institution fulfils various requirements as mentioned below:

Community needs:

- Importance of community needs incorporated in both the UG and PG curriculum.

- Community need assessment surveys are conducted by both UG and PG students such as, assessment of oral health status of population of Moradabad city or specific assessments like oral cancer, cleft lip, cleft palate and other anomalies.

- Training the students for field programs i.e. dental education programs and treatment camps (schools & villages), health awareness programs (Tobacco Day, AIDS Day, Rallies etc.).
The interns are also posted in satellite clinic which renders quality services to rural population.

Mobile Dental Unit is used to provide dental services to far off places.

**Professional skills and competencies:**

- Curriculum includes clinical postings for UG and PG students
- Students are trained in pre-clinical and clinical methods. The pre-clinical procedure includes training on models, casts etc. Clinical training includes demonstrations, discussions of the clinical cases and treating patients under guidance.
- Exposure to new technologies/techniques/procedures through CDE programmes and demonstrations to faculty.
- Compulsory rotatory internship in all the departments.

**Research in thrust / emerging areas:**

Research in emerging areas is promoted by carrying out in-vivo, in-Vitro studies, clinical trials and survey in the form of Dissertations and Term papers (short studies) in various specialities.

**Innovations and Employability:**

- The institute conducts ‘Sanchetana’ – a scientific meet, to provide a platform for discussing diagnosis and treatment of a very rare case and also about research activities, which not only disseminate new knowledge but also provide confidence to students. This event has effectively created a positive atmosphere towards research and facilitated enthused participation of faculty and students in research.
- The students are trained in such a manner that they are competent enough to establish and run their private practice and apply for any job.
- Students are encouraged to think differently and be innovative in their approach.

**1.1.5 To what extent does the institution use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the institution been instrumental in leading any curricular reform which has created a national impact?**

The institution strictly follows the guidelines laid down by the Regulatory Bodies (DCI & University) for developing and/or restructuring the curriculum. Some of the distinguished faculty of our institution give their valuable suggestions (when needed) to the Regulatory Body (DCI) for restructuring of the curriculum.
1.1.6 **Does the institution interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the institution benefitted through interactions with the stakeholders?**

The Regulatory Body interacts with industries and civil society on behalf of the institution and recommends revision in curriculum according to the needs of the society. For example; introduction of Lasers, RVG, operating microscope, bleaches light etc. Faculty and students are motivated to attend or organize CDEs, workshops, conventions, conferences etc. Fringe benefits are also given to faculty for attending or to present paper/poster in National or International conferences.

1.1.7 **How are the global trends in health science education reflected in the curriculum?**

Global trends are followed and grasped by doing research using newer materials, equipments and techniques to test and accept the latest trends.

1.1.8 **Give details of how the institution facilitates the introduction of new programs of studies in its affiliated colleges.**

The institute itself is affiliated to the M. J. P. Rohilkhand University, Bareilly, and does not facilitate the introduction of new programs.

1.1.9 **Does the institution provide additional skill-oriented programs relevant to regional needs?**

Institution endorses additional skill orientation of the students by organizing screening and treatment camps and also by posting PG students in the satellite centres, which help in developing communication, professional and motivational skills amongst students. Institution endorses additional skill orientation programs for its students (UG & PG) to cater to regional needs. Some of these programs are as follows:

- Lectures on Research methodology (for all PG students).
- Oral Cancer Detection and Treatment.
- Treatment of Cleft Lip and Cleft Palate.
- Certified courses on Oral Implantology.
- Organizing Educational, Screening and Treatment Camps in schools and villages.
- Posting in Satellite Centres.

1.1.10 **Explain the initiatives of the institution in the following areas**

**Behavioural and Social Science:**

Focus is given to train the students by highly qualified and experienced faculty to make them understand the psychology of and excel in managing diverse behaviour of patients.
Medical Ethics/Bio-Ethics/Nursing Ethics:
Continued focus is given towards knowing and imbibing good ethical values on issues such as sterilization, confidentiality towards patients, colleagues and society, dedication to serve the patients and society through lectures and implementing ethical principles in clinical practice. Institutional Ethics and Review Board (IERB) is responsible for all ethical issues pertaining to research activities.

Practice Management towards curriculum and/or services:
Curriculum provides a room for Practice Management by training the students in the clinical procedures and organizing guest lectures and symposiums by eminent personalities.

Orientation to research:
- Formation of Institutional Ethics & Review Board (IERB).
- Publication of Institutional journal “Chronicles of Dental Research”.
- PG students are motivated to undertake short projects and dissertation as a part of their curriculum.
- Students and faculty are motivated towards publication in peer reviewed international journals, and are given incentives and academic advantage for promotion respectively.
- Orientation program for PG students includes:
  - Lectures on Biostatistics and Research Methodology
  - Lectures on scientific writing.

Rehabilitation:
All the dental departments of KDCRC work towards rehabilitation of oral cavity.

Ancient scriptural practices:
Few of our researches are conducted on ancient scriptural practices specifically the application of herbal products or household spices on oral health. List of research conducted by various departments using herbal products is placed at Annexure No. 4.

Health economics:
Students are made aware of aspects concerning Health economics through lectures only.

Medico legal issues:
Students are taught medical jurisprudence.
Enhancement of quality of services and consumer satisfaction:
Feedback, suggestions and complaints are taken from randomly selected patients in each department. The Head of the Department analyzes the feedback and takes necessary actions and refers to the Grievance Cell and the Principal, if required. The mobile number of the Principal is displayed at various places of the institute. Any patient can call directly to the Principal for any kind of inconvenience. The institute accords highest priority for enhancement of quality of services and consumer satisfaction.

1.1.11 How does the institution ensure that evidence based medicine and clinical practice guidelines are adopted to guide patient care wherever possible?
All the clinical practices followed in KDCRC are evidence based. It is the institute’s policy to follow only those treatments and procedures which have been theoretically accepted globally. As there are clinical practice guidelines followed in KDCRC, there is a help and registration counter for patients coming to the OPD. After registration, they are guided to go to the Room No. 1 i.e. Department of Oral Medicine and Radiology where they are diagnosed and thereafter referred to other departments for treatment, as required. In every department, clinical practice guidelines are followed and Head of the Department ensures that these guidelines are followed and he/she checks for quality of the treatment provided. The Academic Council ensures that clinical practice guidelines are strictly followed in each department.

1.1.12 What are the newly introduced value added programs and how are they related to the internship programs?
- CDE programs and Hands on courses are conducted at regular intervals of time.
- Patients are treated in camps and satellite dental clinics to enhance the clinical exposure of the students.
- Duration of internship in department of Public Health Dentistry is increased.
- These activities disseminate new information on clinical aspects and technology for practical application by dental professionals.

1.1.13 How does the institution contribute to the development of integrated learning methods and Integrated Health Care Management?
- Vertical and horizontal integration of subjects taught
Vertical integration of the subjects is fulfilled by specialization in respective subjects. Horizontal integration is fulfilled by integrated teaching of all the subjects at the UG level.

- **Integration of subjects taught with their clinical applications**
  Clinical postings are planned in the tenure of teaching programme to enhance the applicability of knowledge in treating patients. Rotatory internship in all the departments helps the interns to apply their knowledge in clinical practice.

- **Integration of different systems of health care (Ayurveda, Yoga, Unani, Homeopathy etc.) in the teaching hospital**
  Not Applicable

1.1.14 *How is compatibility of programs with goals and objectives achieved with particular reference to priority of interface between Public Health, Medical Practice and Medical Education?*

Goals and objectives of the institute are compatible with the UG and PG program offered, due to the integration of Public Health, Dental Practice and Dental Education into the curriculum as prescribed by the DCI and University.

- Rotatory UG postings in each clinical department.
- Rotatory postings during internship in each department.
- Postings in various educational, screening and treatment camps (schools and villages).
- Rotatory postings in satellite clinic/centre.
- Regular assessment to examine academic knowledge and clinical skills.

1.2 **ACADEMIC FLEXIBILITY**

1.2.1 *Furnish the inventory for the following:*

**Program offered on campus:** BDS, MDS, Dental Hygienist

<table>
<thead>
<tr>
<th>Program</th>
<th>Specialty</th>
<th>No. of Seats</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>BDS</td>
<td>BDS</td>
<td>100</td>
<td>4 years + 1 year</td>
</tr>
<tr>
<td></td>
<td>Conservative Dentistry &amp; Endodontics</td>
<td>06</td>
<td>03</td>
</tr>
<tr>
<td>MDS</td>
<td>Oral and Maxillofacial Surgery</td>
<td>03</td>
<td>03</td>
</tr>
<tr>
<td></td>
<td>Oral Medicine and Radiology</td>
<td>03</td>
<td>03</td>
</tr>
<tr>
<td></td>
<td>Oral Pathology &amp;</td>
<td>05</td>
<td>03</td>
</tr>
</tbody>
</table>
Criterion I: Curricular Aspects

<table>
<thead>
<tr>
<th>Microbiology</th>
<th>Orthodontics &amp; Dentofacial Orthopaedics</th>
<th>06</th>
<th>03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedodontics and Preventive Dentistry</td>
<td>05</td>
<td>03</td>
<td></td>
</tr>
<tr>
<td>Periodontology</td>
<td>05</td>
<td>03</td>
<td></td>
</tr>
<tr>
<td>Prosthodontics and Crown &amp; Bridge</td>
<td>06</td>
<td>03</td>
<td></td>
</tr>
<tr>
<td>Public Health Dentistry</td>
<td>03</td>
<td>03</td>
<td></td>
</tr>
<tr>
<td>Dental Hygienist</td>
<td>Dental Hygienist</td>
<td>20</td>
<td>02</td>
</tr>
</tbody>
</table>

Overseas programs offered on campus:
None

Programs available for colleges/students to choose from:
MDS in 9 subjects

1.2.2 Give details on the following provisions with reference to academic flexibility:
- Core options: Health Sciences
- Elective options: Dentistry
- Bridge course: None
- Enrichment courses: Certificate course in Implantology.
- Credit accumulation and transfer facility: None
- Courses offered in modular form: None
- Lateral and vertical mobility within and across programs, courses and disciplines and between higher education institutions: None
- Twinning programs: None
- Dual degree programs: None

1.2.3 Does the institution have an explicit policy and strategy for attracting students from:
other states:
socially and financially backward sections:
international students:
- The institute has a clear policy and strategy to attract students by providing a conducive, academically oriented, professional educative environment which ensures drawing of students. The institute also ensures availability of modern, comforting, boarding, lodging and recreational facilities within the premises.
- The students are recruited to both the UG and PG courses through UPCAT-DENTAL and UPCAT-MDS.
The institute participates in various Educational Melas especially in North eastern states.

The institute ensures congenial atmosphere for the students reassuring Tobacco free and Alcohol free campus.

Institute also assists socially and financially backward sections students for sanctioning loans from banks.

Providing Mess and Canteen facility at subsidized rate.

Temple and recreational facility inside the college campus to cater to varied religious needs of the students.

Sports facility with experienced coaches and a cricket ground.

A competitive and healthy extra-curricular thrust.

1.2.4 Does the institution offer self-financing programs? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programs?

All programs (BDS, MDS, Dental Hygienist) offered by the Institution are self-financing. Institute does not receive any financial grant from the University, Government, UGC and any funding agency. The students are recruited to both the UG and PG courses through UPCAT-DENTAL and UPCAT-MDS. Teacher qualification and salary are at par with the UGC norms. Fee structure in the institute is approved by the State Government.

1.2.5 Has the institution adopted the Choice Based Credit System (CBCS)/credit based system? If yes, for how many programs? What efforts have been made by the institution to encourage the introduction of CBCS in its affiliated colleges?

No, the institution has not adopted the Choice Based Credit System (CBCS).

1.2.6 What percentage of programs offered by the institution follow:
Annual system - 100%
Semester system
Trimester system

The institute follows annual system for all UG and PG courses. These are followed as per guidelines laid down by regulatory bodies (DCI and University).

1.2.7 How does the institution promote multi/inter-disciplinary programs? Name a few programs and comment on their outcome.

The institution regularly conducts multi/inter-disciplinary programs through which students are enriched with the diversified knowledge of all the prospects of dentistry and which also helps them to enhance their clinical skills. Value added programs/courses have been introduced based on need assessment exercise by the Academic...
Council. Some of these Multi/inter-disciplinary/Value Added Programs/Courses organized at the institutional level are mentioned below;

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Multi/Inter-disciplinary program/courses</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Implant Course</td>
<td>Students got exposure to recent advancements in dentistry</td>
</tr>
<tr>
<td>2</td>
<td>Workshop on Basic Life Support</td>
<td>Both faculty and students were taught the skill of basic life support</td>
</tr>
<tr>
<td>3</td>
<td>Lectures on Research Methodology</td>
<td>Students were oriented towards quality research</td>
</tr>
<tr>
<td>4</td>
<td>Esthetic Dentistry</td>
<td>Students were made aware of importance of aesthetic dentistry</td>
</tr>
<tr>
<td>5</td>
<td>Sanchetana</td>
<td>Students and faculty are made aware of the recent research in different specialities of dentistry</td>
</tr>
</tbody>
</table>

1.2.8 What programs are offered for practicing health professionals for skills training and career advancement?
Continuing Dental Education Programs/Workshops are conducted by the various departments which help in knowledge enhancement as well as development of clinical skills. Private practitioners and faculty from different institutes are also invited to participate in these programs.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Student Enrichment Program</th>
<th>Date Conducted</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Presentation by Dr. Satyaki Arora on “Guidance for MDS Coaching”</td>
<td>27.01.2014</td>
</tr>
<tr>
<td>2</td>
<td>Workshop &amp; Interactive Session on “Avenues in Dentistry” by Maj. Gen. P. N. Awasthi, Dr. Rajiv Chugh &amp; Dr. Atul Soni</td>
<td>17.12.2013</td>
</tr>
<tr>
<td>4</td>
<td>Workshop on “Basic Life Support”</td>
<td>07.12.2013</td>
</tr>
<tr>
<td>#</td>
<td>Event Description</td>
<td>Date</td>
</tr>
<tr>
<td>----</td>
<td>----------------------------------------------------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>5</td>
<td>CDE programme by Dr. Nidhi Kohli</td>
<td>28.11.2013</td>
</tr>
<tr>
<td>6</td>
<td>CDE programme by Dr. Sukhdeep Singh on the topic “Crown It”</td>
<td>27.11.2013</td>
</tr>
<tr>
<td>7</td>
<td>Guest lecture by Dr. Vikas Agarwal on the topic “Immunity &amp; Host Response-Basic Concepts”</td>
<td>01.08.2013</td>
</tr>
<tr>
<td>8</td>
<td>CDE programme on “Advancements in Endodontics” by Dr. PD Joshi</td>
<td>01.07.2013</td>
</tr>
<tr>
<td>9</td>
<td>CDE programme on “Composites in Aesthetic Dentistry” by Dr. Madhav Murthy</td>
<td>26.02.2013</td>
</tr>
<tr>
<td>10</td>
<td>“A Leap Ahead to Dental Implants: Basic Implant Course-2012”</td>
<td>Commenced from 2nd week of May 2012</td>
</tr>
<tr>
<td>11</td>
<td>Guest lecture by Dr. Amnon Leitner of Israel on “Use of Computer Tomography in Dentistry”</td>
<td>15.12.2011</td>
</tr>
<tr>
<td>12</td>
<td>Workshop on “Esthetic &amp; Cosmetic Surgery” by Dept. of Oral &amp; Maxillofacial Surgery</td>
<td>17.10.2011</td>
</tr>
<tr>
<td>13</td>
<td>1st International Congress on “Dental Health &amp; Chronic Diseases”</td>
<td>15.09.2011</td>
</tr>
</tbody>
</table>

1.3 CURRICULUM ENRICHMENT

1.3.1 How often is the curriculum of the institution reviewed and upgraded for making it socially relevant and/or skill oriented/knowledge intensive and meeting the emerging needs of students and other stakeholders?

Major revisions and upgradation in the curriculum are only made in accordance to the guidelines and regulations of the Statutory bodies (DCI/University) or amendments if any, circulated/released by them. Examination pattern has been recently changed for the old course. Example:

- Theory and internal assessment (maximum) marks have been changed from 20 to 10.
- MCQs have been introduced in BDS theory examination pattern. Minor modifications within the framework of the Statutory bodies are made based on suggestions from faculty, external examiners or DCI inspectors, after being approved by the Academic Council.
- The institution does not review and upgrade the curriculum, but abides by the guidelines laid down by the DCI. The revision done by the DCI is regularly updated by the institution and followed.
1.3.2 During the last four years, how many new programs were introduced at the UG and PG levels? Give details.

KDCRC is offering 01 BDS course, 09 MDS courses and 01 Dental Hygienist course. The number of MDS seats has been increased from 28 to 40.

Multi/Inter-Disciplinary:

- For PG students, newer programs include monthly interdisciplinary seminars and quarterly “SANCHETANA” scientific session.
- A certificate course of Implantology has also been introduced.

Programs in emerging areas:

- Newer updates are delivered to the students through various CDE programmes, Guest Lectures and Hands on workshops.

1.3.3 What are the strategies adopted for the revision of the existing programs? What percentage of courses underwent a syllabus revision?

Academic Council is in place which annually analyzes/monitors the existing program offered by KDCRC and revisions, if any, were made in accordance to the guidelines of the statutory bodies (DCI/University). Amendments circulated/released by Statutory Bodies have been promptly incorporated into the curriculum e.g. DCI amendments have been incorporated into the syllabus in 2009, 2011 and 2014.

1.3.4 What are the value-added courses offered by the institution and how does the institution ensure that all students have access to them?

Department wise clinical postings facilitate the students to excel in their enhancement of knowledge and to develop skills in all the diversities of dentistry. Career oriented training is given to interns and these also include programs that orient the students towards the upliftment of the community. Institute also conducts Value Added Courses like Implant, Rotary Endodontics, Conscious Sedation, Basic Life Support etc. Such Value Added Courses assist students to develop high self esteem and expose them to the art of entrepreneurship.

1.3.5 Has the institution introduced skills development programs in consonance with the national health programs?

Institute participates in celebrating various National Health Programs e.g. No Tobacco Day, Oral Cancer Day, World AIDS Day etc. Some of them are indicated below-

- Organization of various educational and treatment camps by
Department of Public Health Dentistry e.g. Oral Hygiene Day.

- Tobacco Intervention Initiatives/Anti-Tobacco Day by the Department of Oral Medicine and Radiology.
- Oral Cancer Day by the Department of Oral Medicine and Radiology & and Department of Oral Pathology and Microbiology.

1.3.6 How does the institution incorporate the aspects of overall personality development addressing physical, mental, emotional and spiritual well being of the student?

Institution takes the initiative towards overall personality development of the students. The college organizes annual cultural and sports weeks that rejuvenates the minds all the students and enhances their physical skills and mental activity levels. Apart from curriculum, institution emphasizes the spiritual aspect of the personality development by encouraging their participation in festivals such as Saraswati Pooja, and celebration of Diwali, Holi, Dusshera, Christmas and Eid etc. Equal opportunities are given to students to participate in all colleges co-curricular/extracurricular activities.

1.3.7 Does the curriculum provide for adequate emphasis on patient safety, confidentiality, rights and education?

The Charter of the various Institutional committees such as Biosafety and Environmental committee, IERB and Grievance Cell etc. ensure the patient’s safety, confidentiality, rights and education.

- The Biosafety and Environmental committee ensures that institute strictly follows the Safety guidelines of sterilization for the safety of the patients and the learning students. It is ensured that all the information of the patients is kept confidential.
- Every department has its own Consent Form approved by the IERB. Patients are informed regarding the procedure and maintenance of hygiene. Patients are further notified regarding their rights and duties of the doctor.
- Orientation program for new students (BDS & MDS) include:
  - Organizing various lectures on Patient Safety and Rights.
  - Lectures on Research Ethics and Research Methodology.

1.3.8 Does the curriculum cover additional value systems?

Yes, the institute follows a curriculum which also covers additional value systems.
1.4 FEEDBACK SYSTEM

1.4.1 Does the institution have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?
Yes, there is a formal mechanism to obtain feedback regarding the curriculum from the outgoing students. Feedback forms are randomly distributed to the outgoing students and feedback/suggestions are obtained on curriculum. Academic Council analyses the feedback, some of the positive suggestions are evaluated, discussed and incorporated into the curriculum after approval from the management.

1.4.2 Does the institution elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and their impact.
Yes, the institute obtains feedback and suggestions on the curriculum from eminent faculties visiting the institute as guest speakers and examiners etc. These valuable suggestions do help the college to improve the curriculum.

1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum and the extent to which it is made use of.
Not Applicable

1.4.4 Based on feedback, what are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring the effective development of the curricula?
- Based on the analysis of the feedback the institute has started a Mentor-Mentee program, wherein 10-20 students of each year are under the supervision of single mentor till the completion of the specific program. This program was modified in 2014 to have only 9-10 students under one Mentor.
- Introduction of value-added courses has been introduced.
  - Certificate courses in Implantology
  - Certificate courses in Aesthetic Dentistry.
- Various Committees have been formed to ensure quality sustenance and quality enhancement in the institute.

1.4.5 What mechanisms are adopted by the management of the institution to obtain adequate information and feedback from faculty, students, patients, parents, industry, hospitals, general public, employers, alumni and interns, etc. and review the activities of the institution?
Adequate information is taken through feedback forms and suggestions from faculty, students, patients, parents, industry, hospitals, general public, employers, alumni and interns, etc.

Formal and informal interaction of the top level management with its faculty, students and alumni.

Suggestion boxes are placed at strategic locations in the institute.

Feedback is also obtained from students, alumni, external examiners etc. regarding institute, course, syllabus, examinations and curriculum.

The faculty of the institution are evaluated on a teacher’s Evaluation Forms filled by the students at the end of lectures. The teachers are briefed by the Principal about their evaluation results and instructed to take necessary modification, if required.

Regular feedback on patient satisfaction is obtained through patient feedback forms and is used for necessary action, if required.

Alumni meetings are held and views of the Alumni are taken into consideration through the Alumni Committee.

Any other information regarding Curricular Aspects which the institution would like to include:

Yes. The institution feels that the following suggestions can improve the curriculum:

- MDS I year University examination for Basic Sciences.
- Weekly tests for Undergraduates
- Monthly tests for interns on Multiple Choice Questions to guide them to pursue MDS entrance examinations.
CRITERION II
2.1 STUDENT ENROLMENT AND PROFILE

2.1.1 How does the institution ensure publicity and transparency in the admission process?
The institution ensures wide publicity to the admission process through institutional prospectus, institutional website (www.kothiwaldentalcollege.com), advertisement in local and national newspapers, advertisements on flex boards displayed in main areas of the cities and neighbouring cities and admission messages through local television channels.
Admission to the BDS and MDS courses is by centralized examination governed by Association of Private Medical & Dental Colleges of U.P. i.e. UP Common Admission Test (UPCAT Dental/MDS) which is outside the preview of the institution's control. During the admission process, rules and regulations of M.J.P. Rohilkhand University, Bareilly and DCI are strictly followed.

2.1.2 Explain in detail the process of admission put in place by the institution. List the criteria for admission (i) Merit (ii) Merit with entrance test (iii) Merit, entrance test, aptitude and interview (iv) common entrance test conducted by state agencies and national agencies (v) any other criteria (specify)

- **BDS Admission process:**
  Admission to BDS Course at KDCRC is done through a single Common Entrance Test conducted by Association of Private Medical & Dental Colleges of UP - UPCAT-Dental. The details of this Test are advertised in National newspaper during April/May every Year.

  **Eligibility criteria:** The candidate must complete the age of 17 years on or before 31st December of the year of admission to the BDS course. The candidate must have passed the Higher Secondary Examination or the Indian School Certificate Examination which is equivalent to 10+2 Higher Secondary Examination. The student must have obtained 50% marks in the subjects of Physics, Chemistry and Biology and must have qualifying marks in English. For SC, ST or OBC, the minimum marks shall be 40%.

- **MDS Admission process:**
  Admission to MDS Course at KDCRC is also done through a single Common Entrance Test conducted by Association of Private Medical & Dental Colleges of U.P - UP Common
Admission Test (UPCAT-MDS). The Details of Test are advertised in National Newspaper during Jan/Feb every Year.

**Eligibility criteria:** Candidate for admission to MDS course must have recognized BDS degree by DCI awarded by an Indian University in respect of recognized dental colleges under section 10(2) of the Dentist’s act, 1948 or an equivalent qualification recognized by the DCI and should have obtained permanent registration with a State Dental Council. 
(Annexure No. 5)

2.1.3 **Provide details of admission process in the affiliated colleges and the University’s role in monitoring the same.**
The institution is an unaided affiliated college under M.J.P. Rohilkhand University and its admission process is governed by UPCAT Dental/MDS and the rules and regulations of the University and DCI.

2.1.4 **Does the institution have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?**
The institute plays no role in the admission process, as this process is governed by an external agency UPCAT Dental/MDS. Hence, review of this process and of the student profile is not undertaken by the institute.

2.1.5 **What are the strategies adopted to increase/improve access for students belonging to the following categories:**

| SC/ST, OBC | ❖ There is no specified quota for SC, ST and OBC in admission process.  
❖ The college assists the SC/ST students in getting scholarship. |
|-----------|---------------------------------------------------------------------|
| Women     | ❖ There is no specified quota for women in the admission process.  
❖ The institute provides a number of facilities for female students i.e. separate hostels, Female Common Room, separate timing in Gym etc. |
| Persons with varied disabilities | ❖ Special care is taken for person with varied disability. Ramps and elevators are provided to access the different floors of the institution and hospital.  
❖ There is also a provision of wheel chairs. |
| Economically | ❖ Institute helps economically weaker |
students to get scholarship from state government
- Certain concessions are also given from the management i.e. tuition fee, hostel fee etc.

- Reimbursement facility (TA/DA) is provided for outstanding students from the institute.

### 2.1.6 Number of students admitted in the institution in the last four academic years:
#### BDS

<table>
<thead>
<tr>
<th>Categories</th>
<th>2014</th>
<th>2013</th>
<th>2012</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td>SC</td>
<td>03</td>
<td>04</td>
<td>05</td>
<td>05</td>
</tr>
<tr>
<td>ST</td>
<td>03</td>
<td>00</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>OBC</td>
<td>04</td>
<td>17</td>
<td>13</td>
<td>16</td>
</tr>
<tr>
<td>General</td>
<td>31</td>
<td>38</td>
<td>16</td>
<td>45</td>
</tr>
</tbody>
</table>

#### MDS

<table>
<thead>
<tr>
<th>Categories</th>
<th>2014</th>
<th>2013</th>
<th>2012</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td>SC</td>
<td>00</td>
<td>02</td>
<td>00</td>
<td>01</td>
</tr>
<tr>
<td>ST</td>
<td>00</td>
<td>00</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>OBC</td>
<td>06</td>
<td>03</td>
<td>01</td>
<td>03</td>
</tr>
<tr>
<td>General</td>
<td>14</td>
<td>15</td>
<td>20</td>
<td>15</td>
</tr>
</tbody>
</table>

* M=Male, F=Female

### 2.1.7 Has the University conducted any analysis of demand ratio for the various programs of the University departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase / decrease.

Not Applicable.

### 2.1.8 Were any programs discontinued/staggered by the institution in the last four years? If yes, specify the reasons.

No programs have been discontinued/staggered by the institution in the last four years.
2.2 CATERING TO STUDENT DIVERSITY

2.2.1 Does the institution organize orientation/induction program for freshers? If yes, give details such as the duration, issues covered, experts involved, and mechanism for using the feedback in subsequent years.

The institute annually conducts the orientation program for the freshers, both for UG and PG students in the first two weeks of their joining the institute. This program is addressed by the Principal and the Director of the KDCRC, and includes introduction of the college, its faculty, information regarding the programs, rules & regulations of the institute and facilities within the campus etc.

Specific programs for female students regarding dress code within the college campus and aspects of social security are also conducted. The students are also informed about the Institutional Anti-Ragging Committee and Institutional Disciplinary Committee, Student/Patient Welfare Committee, Institutional Grievance Committee and the personnel to be contacted in case of any emergency.

Orientation/Induction program (BDS)

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Topic Covered</th>
<th>Approx Duration</th>
<th>Experts Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
<td>10 Min</td>
<td>Principal</td>
</tr>
<tr>
<td>2</td>
<td>Female rights and responsibilities</td>
<td>15 min</td>
<td>Dr. Seema Chaudhary</td>
</tr>
<tr>
<td>3</td>
<td>Anti-ragging</td>
<td>10 min</td>
<td>Principal</td>
</tr>
<tr>
<td>4</td>
<td>Introduction to faculty and Departments</td>
<td>25 min</td>
<td>Heads of the departments</td>
</tr>
<tr>
<td>5</td>
<td>Rules and Regulations of the Institute</td>
<td>10 min</td>
<td>Principal</td>
</tr>
<tr>
<td>6</td>
<td>Hostel &amp; Mess Timings, Rules and Regulations</td>
<td>10 min</td>
<td>Residential wardens</td>
</tr>
<tr>
<td>7</td>
<td>Ethics in Dental Practice and Research</td>
<td>45 min</td>
<td>Dr. K. K. Chaubey (especially for MDS students)</td>
</tr>
</tbody>
</table>

Orientation/induction program (MDS)

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Topic Covered</th>
<th>Approx Duration</th>
<th>Experts Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>General Anatomy</td>
<td>10 hrs</td>
<td>K. P. Saxena</td>
</tr>
<tr>
<td>2</td>
<td>Human Physiology</td>
<td>10 hrs</td>
<td>Dr. G. K. Tandon</td>
</tr>
<tr>
<td>3</td>
<td>Pharmacology</td>
<td>09 hrs</td>
<td>Dr. B. S. Chauhan</td>
</tr>
<tr>
<td>4</td>
<td>Oral Pathology</td>
<td>10 hrs</td>
<td>Dr. N. N. Singh</td>
</tr>
<tr>
<td>5</td>
<td>Oral Medicine and had</td>
<td>02 hrs</td>
<td>Dr. R. G. Patil</td>
</tr>
</tbody>
</table>
At the end of Orientation/induction program Feedbacks are taken and suggestions if any, are incorporated into the next year Orientation/induction program.

2.2.2 Does the institution have a mechanism through which the “differential requirements of the student population” are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?
Informal and formal feedback is received from the students during Orientation Program. The requirement of the student population viz. vegetarian/non-vegetarian diet, religion, and cultural beliefs etc. are analyzed and the key issues are addressed accordingly by warden and Student/Patient welfare committee. Based on the feedbacks students are also guided, through mentoring and counselling.

2.2.3 How does the institution identify and respond to the learning needs of advanced and slow learners?
Various initiatives have been undertaken by the institute to identify and respond to advanced and slow learners.
- The slow and advanced learners are identified by the departments on the basis of their written tests and quality of their assignments, project works.
- Remedial drill is initiated by the concerned teacher in the form of repetition of postings, home assignments, and counselling for slow learners. Advanced learners are given challenging tasks as enrichment courses.
- Remedial classes for slow learners.
- The college also conducts supplementary theory and practical preparatory examinations for the students (slow learners) to get acquainted with the exam process.
- Mentor-Mentee Program is in place for student counselling and guidance.
- Additional guidance for fast learners is also provided by the Placement Cell.
2.2.4 Does the institution offer bridge/remedial/add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

The institution does not offer any bridge/remedial or add-on courses. However, remedial classes are conducted for slow learners which are incorporated into the Institutional Timetable. Refer 2.2.3.

2.2.5 Has the institution conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, differently-abled, etc.? If yes, what are the main findings?

No

2.2.6 Is there a provision to teach the local language to students from other states/countries?

The students enrolling in this institute are familiar with the local language. Till now no such provision has been undertaken.

2.2.7 What are the institution’s efforts to teach the students moral and ethical values and their citizenship roles?

The institution endeavours its graduate just not to be a competent dentist, but also a responsible citizen.

- Institute regularly organizes/conducts various camps in town, villages and schools helping needy patients, through which graduates are sensitized towards the necessity of dental treatment for all strata of society.
- Topics like ethical dental practice, code of ethics, doctor-patient relationship, patient confidentiality, patient consent, negligence, malpractice and research ethics are also incorporated into the curriculum or the students are sensitized during orientation program.
- The institution celebrates all festivities of national importance like Independence Day, Republic day, Gandhi Jayanti etc.
- The students are also encouraged to celebrate festivals like Saraswati puja, Durga puja, Ganesh Chaturthi, Eid and Christmas day so as to imbibe good moral and ethical values.

2.2.8 Describe details of orientation/foundation courses which sensitize students to national integration, Constitution of India, art and culture, empathy, women’s empowerment, etc.

Orientation programs are conducted for newly admitted students to sensitize them to ethical dentistry and their role as a citizen of India in national integration. Refer 2.2.1 & 2.2.7.
2.2.9 Has the institution incorporated the principles of Life Style Modifications for students based on Eastern approaches in their day to day activities?
Yes, the institution has incorporated the principles of Life Style Modifications. The campus is a Tobacco and Alcohol Free Zone. Students are encouraged to practice meditation and yoga. Students are also encouraged to participate in various sports and other extra-curricular activities. Dress code adherence towards Indian/eastern culture is insisted among students.

2.2.10 Has Yoga/Meditation/any other such techniques been practiced by students regularly as self-discipline?
Institute encourages its students to practice Yoga and Meditation, though it is not mandatory. In campus, Temple and Community Hall facility is also provided to the students for their religious and meditation needs. Outdoor and indoor sports and gym facility is also provided to the students. Students are encouraged to eat well and stay healthy.

2.2.11 How does the institution attend to the diverse health issues (physical and mental) of students and staff?
Institution attends to the diverse health issues (physical and mental) of students and staff by providing:
- Outdoor and indoor sport facility
- Gym facility
- Temple and meditation place for religious/meditation need.
- On call psychiatrist is also available.
- Balanced and nutritious diet in mess.
- Immunization camps (Hepatitis A & B)
- Treatment and pharmacy facility at highly concessional rates.

2.2.12 Does the institution caters to the needs of groups/individuals requiring special attention by conducting group classes/special individual trainings/focused group discussion/additional training measures etc.?
Institute annually identify slow-learners and remedial classes are conducted for them. Individual faculty takes special interest and slow learners are also given special attention during lab/clinics hours. Such students are kept under the supervision of experienced faculty during Mentor-Mentee Program. Refer 2.2.3 & 2.2.4
2.3 TEACHING-LEARNING PROCESS

2.3.1 How does the institution plan and organize the teaching-learning and evaluation schedules?
The teaching-learning and evaluation schedules are planned according to the guidelines laid down by its affiliated University and DCI.
- Academic calendar of the institute is prepared and circulated annually.
- College timetable is prepared by the Time Table Committee which includes lectures and clinical and lab postings.
- Department timetable (UG & PG) is prepared, annually by respective department.
- Departments also prepare lecture schedules of Teachers and topics, annually and monthly which are displayed on the departmental notice board.
- Lesson plans are prepared by each teacher.
- Infrastructural, books, journals, equipments, materials are annually re-assessed and actions initiated.
- Camp duties of the students, interns and staff are made as per requirement.

2.3.2 Does the institution provides course objectives, outlines and schedules at the commencement of the academic session? If yes, how is the effectiveness of the process ensured?
Yes, the institution provides the course objectives and schedules for both the BDS and MDS students at the commencement of academic session. It is also uploaded on college website and is prepared according to the guidelines prescribed by the regulatory bodies (University & DCI). Students are also provided with pre-clinical and clinical manuals or log book. The effective implementation of this schedule is done by carefully designing the college and departmental time table (schedule) to satisfy the above objectives. The effectiveness of the program is also partly assessed through the performance of students in the internal examinations, viva-voice, clinical end-posting viva etc.

2.3.3 Does the institution face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.
The institute/departments complete(s) its/their curriculum (BDS/MDS) within the stipulated time frame and calendar. Though there are some challenges encountered by some of the students, such as delay in completing the allotted work quota etc. which are addressed by giving them extra time and special guidance by the senior faculty. If some
unplanned leaves occur then revision classes are utilized to complete the course.

2.3.4 How learning is made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

**Undergraduate Students:**
The institute gives emphasis on Student Centric Teaching Approach. The students are encouraged to participate in teaching-learning activities like designing a project work/report, case discussions/presentations, seminars, scheduled lectures, clinical teaching, library hours, debates, skill-building through simulated models and mandates field/community visits (camps) with the objective of enhancing learning experiences.

**Postgraduate Students:**
All PG students are expected to complete a Library and Main dissertation as a part of the curriculum. PG students have to present specific number of seminars, journal clubs, case presentations etc. Before allotment of clinical work (on patients) they have to complete their pre-clinical exercises/quota. They also have to attend and present research papers and posters in various conferences and conventions. They have to publish at least one paper in peer reviewed indexed journal. They are also made to participate in various group activities project work/report, case discussions/presentations, seminars, clinical teaching, library hours, debates, skill-building through simulated models and mandates field/community visits (camps) with the objective of enhancing their learning experiences.

Both PG & UG students are also encouraged to participate in various conference/conventions/CDE/workshops and in various other inter/intra-institutional curricular as well as extra-curricular activities. Besides these, they are also sensitized towards imbibing good moral/ethical values and national integration.

2.3.5 What is the institution’s policy on inviting experts/people of eminence to augment teaching-learning activities?
Yes, the institution regularly invites experts/people of eminence to share their knowledge, expertise and experiences with the students and faculty by organizing Guest Lectures, CDEs and Workshops.

2.3.6 Does the institution formally encourage learning by using e-learning resources?
The institute encourages learning by using e-learning resources by the following:
The college campus is Wi-Fi enabled. PG as well as UG students are encouraged to use internet facilities to access the recent developments in the field of dentistry.

Students are encouraged to prepare and deliver their seminars/journal club/other presentations in ICT enabled seminar rooms.

The central library has a separate ICT cell where students can access internet facility.

The central library is also equipped with e-resource materials (e-books and e-journals) which are loaded in the system and can be accessed by the students and faculty.

Faculty are also encouraged to prepare and deliver their lectures in ICT enabled lecture hall for enhanced understanding of topics by the students.

The institute has also subscribed for EBSCOhost online research database which can be freely accessed by all the students & faculty.

2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning and open educational resources used by the faculty for effective teaching?

- The lectures are made effective by the use of MS PowerPoint and videos/graphics etc. for better visualization and understanding of complicated procedures and techniques.
- In addition certain pre-recorded lecturers/text/pictures/videos on relevant subjects are also used. The faculty are encouraged to deliver their lectures in ICT enabled lecture halls. Each lecture hall is equipped with LCD projectors, computer terminals and is Wi-Fi enabled.
- Teaching is also made more effective by conducting video lectures and demonstrations of live surgical procedures/webinars.
- Theoretical lectures of all the subjects are made available on CD’s in the library, to be readily accessed by the students.
- The institute has also subscribed for EBSCOhost online research database which can be freely accessed by all the students & faculty.
- Computers with internet facility are also provided in all the departments.
- Individual departmental library is also stocked with seminars/lectures in the form of CDs. (Refer 2.3.6)

2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the institution’s educational processes?
Currently the benefits of Open Source Community are being utilized by conducting video conferencing, webinars, CDE programmes in all the departments. Plans are afoot to create a separate group among the faculty to monitor the trends and issues regarding development in Open Source Community in the future.

2.3.9 What steps has the institution taken to transition from traditional classrooms into an e-learning environment?
The ICT integration of teaching-learning process like utilization of computers, audio-visual multimedia, power point presentations, video conferencing, webinars, internet and e-resource information/materials/EBSCOhost online research data base etc. are extensively used for enriching the learning experiences. This has given the requisite impetus to effective transition from traditional classrooms into an e-learning environment. Refer 2.3.6 & 2.3.7.

2.3.10 Is there provision for the services of counsellors/mentors/advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.
Yes, the institute pays special emphasis on counselling/mentoring or advising students on their academic, personal and psycho-social needs. For this, A Mentor-Mentee Program has been implemented centrally & department wise at a given teacher to student ratio of 1:6. Individual department has a teacher to student ratio of approximately 1:20. Slow and fast learners are identified and special counselling is offered. From the current academic year, August 2014, the mentor-mentee programme has been modified/improved by constituting Mentor-Mentee Committee. From 2014, the Mentor Mentee raio is 1:9.

2.3.11 Were any innovative teaching approaches/methods/practices adopted and implemented by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?
- In addition to conventional classroom teaching, most of the lectures are taken with the aid of ICT facilities such as multimedia (LCD projector and PowerPoint).
- Faculty and students strictly follow annual academic calendar and guidelines laid down by the DCI and the University.
- Students are taught through pre-clinical laboratory training, practicals, projects, seminars, interactive learning, continuing dental education, problem based learning, integrated teaching, self directed learning through use of library, internet, journals, back
volumes, and tutorials, personality development skills, community interaction, participation in conferences, co-curricular activities, and rotatory clinical postings. Students are encouraged to participate in field programs and community oriented health camps (educational/treatment). Pre-clinical skill-development is achieved through simulated models/phantom heads and pre-clinical exercise.

- Continuous assessment of student performance is done on a regular basis by conducting group discussion, viva-voce, case discussion, chair side discussions, and theory exam etc. Students are instructed to update and maintain their quota books/log book/manuals on regular basis which is perused and duly signed by the concerned faculty of the department. Assessment is also done during Mentor-Mentee Program.

- With all these efforts enumerated above, a vast improvement in the academic performance (internal and external assessment) of students has been observed. (Refer 2.3.6, 2.3.7 & 2.3.9)

2.3.12 How does the institution create a culture of instilling and nurturing creativity and scientific temper among the learners?

The institute nurtures the student’s creativity by organizing and encouraging them to participate in various co-curricular activities/programs. The college creates the culture of instilling scientific temperament especially among the PG students by conducting “Sanchetana”- A scientific programme, once in four months. Institute also motivates and encourages its students and faculty members to organize and attend various CDEs/conferences/conventions/workshops. Institute also publishes its own scientific journal which is titled “Chronicles of Dentistry”.

2.3.13 Does the institution consider student projects mandatory in the learning program? If yes, for how many programs have they been (percentage of total) made mandatory?

- Number of projects executed within the institution

The student projects in the form of library and main dissertation are mandatory for all the PG students. BDS program also have project work as a part of their curriculum.

<table>
<thead>
<tr>
<th>Program</th>
<th>2011-2012</th>
<th>2012-2013</th>
<th>2013-2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>BDS</td>
<td>Students have to complete projects specified by individual departments before appearing for exams</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MDS</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>
Names of external institutions for student project work
Our PG students are utilizing the services and special facilities of other institute for their research projects. Some of the external institutes are listed below:

- Research Testing & Calibration Laboratory, Moradabad; UP.
- Dr. Vrirmani’s Dental Laboratory, Rohini; New Delhi.
- Geetenjali Pathodiagnostics Laboratory, Patna; Bihar.
- Department of Physical And Applied Sciences, Jammu University, Jammu.
- Moradabad Institute of Technology, Moradabad; UP.
- Spectroanalytical Laboratory, Moradabad; UP.
- Vardhman Threads Pvt. Ltd. Baddi, Chandigarh.
- Birbalsahni Institute, Lucknow; UP.
- ASP Sealing Products Ltd, Gajraula; UP.
- ITS Engineering College, Greater Noida; UP.
- Vibha Path Lab, Moradabad; UP.
- IIT, Roorkee; UP
- Forest Research Institute, Dehradun; Uttaranchal.
- IIT Kanpur; UP.
- Department of Mechanical Engineering, College Of Technology, Pant Nagar; Uttaranchal.
- Mahajan Imaging Center, New Delhi
- Shanti Path Lab, Moradabad; UP.

Role of faculty in facilitating such projects
The senior faculties act as guides and co-guides facilitating the students in selecting, planning and completing the projects on time.

2.3.14 Does the institution have a well qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?
The institute has sufficient, professionally competent and highly experienced and qualified pool of human resource to meet the requirements of the curriculum.

2.3.15 How are the faculty enabled to prepare computer-aided teaching/learning materials? What are the facilities available in the institution for such efforts?
All the departments are equipped with computer and with broadband internet connections. Lectures are delivered using computer aided power point presentations/videos in ICT enabled lectures halls. If
required, faculty can take assistance from ICT cell headed by professional staff.

2.3.16 Does the institution have a mechanism for the evaluation of teachers by the students/alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?

Yes, the faculty of the institution are evaluated by the students. Students are asked to fill the “faculty evaluation form” at the end of lectures. This feedback is then analysed and the faculty are updated based on their feedback (strengths and weaknesses, knowledge, skills, attitude, and personal behaviour) by the Principal, and are instructed to undertake necessary modification as required.

2.3.17 Does the institution use telemedicine facilities for teaching-learning processes? If yes, cite a few instances.

Yes, institution uses telemedicine facilities for teaching-learning processes by organizing webinars in various field of dentistry. Department of Oral Pathology and Microbiology takes part in slide discussions organized by tele-oral pathology group.

2.3.18 Does the institution utilize any of the following innovations in its teaching learning processes?

| ICT enabled flexible teaching system. | Faculty are encouraged to exploit and utilize the ICT facilities available in the institute at every opportunity. All the lecture theatres are ICT enabled for interactive teaching-learning process. |
| Reflective learning. | Is practiced in teaching by conducting journal clubs, seminars and case presentations and discussions for PG students in the respective departments. Hands-on training and pre-clinical exercises also enhance the personal learning abilities of the students. |
| Simulations | Students undergo pre-clinical training of various dental procedures on replica/models of jaws and teeth. Dissections of human body are demonstrated on cadavers. Before performing clinical work on patients, students also have to perform pre-clinical exercise on models/simulations/phantom heads installed in various laboratories of the institute. |
Evidence based medicine.  | The institute promotes Evidence Based Teaching-Learning Process.

Emphasis on development of required skills, adequate knowledge and appropriate attitude to practice medicine.  | The training in the institute is based on Evidence Based Dentistry. The adequate amount of skills required and knowledge are imparted through rigorous pre-clinical and clinical training, both on virtual models/phantom heads and subsequently on patients under the supervision of highly experienced, well qualified and dedicated staff.

Problem based learning (PBL).  | Every department uses Problem Based Learning in their teaching methodology both for UG and PG students. Approximately 30-40 PBL classes are organized for UG students every year. 45-50 PBL classes are organized for PG students every year along with case presentations and discussions.

Drug and poison information assistance centre  | None

Ayurveda practices  | None

Yoga practices  | None

Yoga therapy techniques  | None

Naturopathy and its practices  | None

Any other  | -

2.3.19 Does the institution have an Electronic Medical Records facility, staffed by trained and qualified personnel? Is it used for teaching-learning process?

None

2.3.20 Does the institution have well documented procedures for case sheet writing, obtaining informed consent and the discharge process of the patients?

Yes, the institute follows a proper procedure of case sheet writing and in maintaining patient records at registration/reception counter. An informed written consent of the patient is obtained before proceeding ahead with any invasive procedure. Discharge sheets of patients are prepared before discharging the admitted patients.
2.3.21 Does the institution produce videos of clinical cases and use them for teaching-learning processes?
Yes, some of the special/interesting cases of academic interest are recorded and photographed, and then subsequently used for teaching-learning process. It is also mandatory for all the PG students to maintain the records of all the patients they handle/treat. Some of the interesting cases/data from the patients are also published in the various national/international peer reviewed indexed journals and after obtaining an informed written consent from the patients, and obtaining clearance from IERB.

2.3.22 Does the institution perform medico legal/post-mortem procedures with a view to train the undergraduate and post-graduate students in medico legal procedures?
No

2.3.23 Does the institution have drug and poison information and poison detection centres? How are these used to train the students?
No

2.3.24 Does the institution have a Pharmaco vigilance / Toxicology centre /clinical pharmacy facility / drug information centre/Centre for disease surveillance and control/ Prevention through Yoga/Promotion of positive health/Well equipped Psychology Laboratory/ Naturopathic diagnostic centre, etc.?
No

2.3.25 Laboratories / Diagnostics
How is the student’s learning process in the laboratories/diagnostics monitored? Provide the laboratory time table (for the different courses).

Student staff ratio in the laboratories/diagnostics:
❖ Before the students enter the clinics they are trained on mannequins, phantom heads/dummies and then are subsequently allowed to treat the patients under the supervision of highly experienced, well qualified and dedicated staff.
❖ Approximately 8 to 10 students are posted in each clinical department. Screening of the patients is done by interns and PG students under the supervision of faculty. Discussions, demonstrations, chair side teaching and group discussions are also conducted regularly in the departments.
❖ Clinical postings for BDS final year students and interns are scheduled as per the college time table. Clinical posting for PGs are scheduled according to respective departments. All the dental procedures recommended by the statutory body are taught under
the direct guidance of faculty. Students have to complete their minimum quota of procedures before completing their clinical postings. They also have to maintain their records/log book/manuals during this period. Students are assessed during their postings through various discussions and end posting exams. Refer 2.3.18.

- Refer Annexure No. 6 for the Time Table of (UG/PG) laboratory/clinical postings.

2.3.26 How many procedures/clinical cases/surgeries are observed, assisted, performed with assistance and carried out independently by students in order to fulfil learning objectives?
The students have to accomplish specific number of procedures/clinical cases/surgeries according to the quota allocated by the individual department as per recommendation of the statutory bodies (DCI/University). Students are required to maintain their case history records/logbook/manuals for the clinical cases they have handled/treated. These details will be made available in the respective department. Annexure No. 7

2.3.27 Does the institution provide patients with information on complementary and alternative systems of Medicine?
No

2.3.28 What are the methods used to promote teaching-learning process in the clinical setting?
- Prior to entering the clinics students are trained on virtual models/mannequins/phantom heads etc. The students are divided into small groups for their rotatory clinical postings. They have to complete a specified pre-clinical quota before performing any procedures on the patients. In-charge faculty also demonstrates and discusses the procedures. Thereafter, students can conduct treatment on the patients under the supervision of highly experienced, well qualified and dedicated staff.
- Certain procedures are also demonstrated to the students through power-point presentations/webinars/videos from youtube etc.
- These methods adopted by the various departments promote teaching-learning process in the clinical setting. Refer 2.3.18 & 2.3.25.

2.3.29 Do students maintain log books of their teaching-learning activities?
Yes, both the UG and PG students maintain records of their teaching-learning activities which are assessed and signed on regular basis by the respective faculty in-charge. The UG students maintain pre-clinical
records, records of laboratory and patient records in a pre-designed manual. PG students maintain log book which contain record of their daily activities. Beside this, they also have to maintain assessment forms which are being graded by Head of Department.

2.3.30 **Is there a structured mechanism for post graduate teaching-learning process?**

The schedule for PG teaching learning process is followed as prescribed DCI and University (three-year curriculum). All departments have separate PG time-table from 1st to 3rd year. PG quota (pre-clinical & clinical) has been prescribed by the various departments on yearly basis. This includes pre-clinical work, clinical work, seminars, journal club, case presentations, records, main dissertation, library dissertation, presentations in conferences/conventions, taking lectures for UG students, paper publication etc. It is compulsory for the PG students to complete their minimum required quota before they appear for their University examinations (theory & practical).

2.3.31 **Provide the following details about each of the teaching programs:**

**Number of didactic lectures**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Subject</th>
<th>Lecture (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>General Human Anatomy, Embryology, Osteology and Histology</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>General Human Physiology, Biochemistry, Nutrition And Dietics</td>
<td>120</td>
</tr>
<tr>
<td>3</td>
<td>Dental Materials</td>
<td>80</td>
</tr>
<tr>
<td>4</td>
<td>Dental Anatomy, Embryology and Oral Histology</td>
<td>105</td>
</tr>
<tr>
<td>5</td>
<td>Dental Pharmacology and Therapeutics</td>
<td>70</td>
</tr>
<tr>
<td>6</td>
<td>General Pathology and Microbiology</td>
<td>55+65</td>
</tr>
<tr>
<td>7</td>
<td>General Medicine</td>
<td>60</td>
</tr>
<tr>
<td>8</td>
<td>General Surgery</td>
<td>60</td>
</tr>
<tr>
<td>9</td>
<td>Oral Pathology and Microbiology</td>
<td>145</td>
</tr>
<tr>
<td>10</td>
<td>Oral Medicine and Radiology</td>
<td>65</td>
</tr>
<tr>
<td>11</td>
<td>Pedodontics and Preventive Dentistry</td>
<td>65</td>
</tr>
<tr>
<td>12</td>
<td>Orthodontics and Dental Orthopaedics</td>
<td>50</td>
</tr>
<tr>
<td>13</td>
<td>Periodontology</td>
<td>80</td>
</tr>
<tr>
<td>14</td>
<td>Oral and Maxillofacial Surgery</td>
<td>70</td>
</tr>
<tr>
<td>15</td>
<td>Conservative Dentistry and Endodontics</td>
<td>135</td>
</tr>
<tr>
<td>16</td>
<td>Prosthodontics and Crown &amp; Bridge</td>
<td>135</td>
</tr>
<tr>
<td>17</td>
<td>Public Health Dentistry</td>
<td>60</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>1590</strong></td>
</tr>
</tbody>
</table>
Number of students in each batch

<table>
<thead>
<tr>
<th>Year 2014</th>
<th>I year</th>
<th>II year</th>
<th>III year</th>
<th>IV year</th>
<th>Intern</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of students</td>
<td>BDS</td>
<td>100</td>
<td>96</td>
<td>91</td>
<td>96</td>
</tr>
<tr>
<td>No. of students</td>
<td>MDS</td>
<td>40</td>
<td>40</td>
<td>34</td>
<td>-</td>
</tr>
</tbody>
</table>

Number of rotations

- During internship, students are rotated in each department for a period of one month. Internship in Public Health Dentistry is for 45 days and there is also an elective posting for 15 days.
- Final year BDS students have postings in all the departments except in the Department of Oral Pathology and Microbiology. Whereas, 2\textsuperscript{nd} and 3\textsuperscript{rd} year BDS students are posted in all the concerned departments.
- Along with the above, lab and pre-clinical postings are held for 1\textsuperscript{st} year, 2\textsuperscript{nd} year and for 3\textsuperscript{rd} year BDS students.

Details of student case study/drug study

Each department has a minimum set quota for case studies which are maintained in respective departments.

Nursing Care Conference (NCC)

Not Applicable

Number of medical/dental procedures that the students get to see

As per the syllabus recommended by DCI, all the students in each department get to see the required number of procedures.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Department</th>
<th>No. of Procedures seen by Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Conservative Dentistry &amp; Endodontics</td>
<td>13</td>
</tr>
<tr>
<td>2</td>
<td>Oral and Maxillofacial Surgery</td>
<td>07</td>
</tr>
<tr>
<td>3</td>
<td>Oral Medicine and Radiology</td>
<td>20</td>
</tr>
<tr>
<td>4</td>
<td>Oral Pathology &amp; Microbiology</td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td>Orthodontics &amp; Dentofacial Orthopaedics</td>
<td>15</td>
</tr>
<tr>
<td>6</td>
<td>Pedodontics and Preventive Dentistry</td>
<td>19</td>
</tr>
<tr>
<td>7</td>
<td>Periodontology</td>
<td>21</td>
</tr>
<tr>
<td>8</td>
<td>Prosthodontics and Crown &amp; Bridge</td>
<td>06</td>
</tr>
<tr>
<td>9</td>
<td>Public Health Dentistry</td>
<td>07</td>
</tr>
</tbody>
</table>

(Annexure No. 7)

Mannequins/Simulation/skills laboratory for student teaching

- All the departments use Mannequins/Simulation/skills laboratory for student teaching as a part of pre-clinical exercise.
Special phantom head laboratories are established in department of Conservative Dentistry, Department of Pedodontics and Preventive Dentistry and Prosthodontics and Crown & Bridge.

Other departments also perform simulations/teaching on cadaver, simulations, bones, typhodonts and dental models etc.

**Number of students inside the operation rooms at a given time**
Minimum of 5-6 students including 3 PGs and 2 Interns are permitted at a given time in operation rooms.

**Average number of procedures in the ORs per week, month and year**
Around 450-500 procedures in ORs per year i.e. an average of 40-50 procedures are performed per month.

**Autopsy / Post-mortem facility**
Not available

### 2.4 TEACHER QUALITY

#### 2.4.1 How does the institution plan and facilitate its faculty to meet the changing requirements of the curriculum?
The institute organizes several CDE programs/conferences/guest lectures for enhancing professional knowledge and clinical skills of its faculty. Institute also motivates its faculty to participate in various national and state level seminars/conferences/conventions/workshops conducted by different institutions or organizations. Institute also provides financial grants to its faculty for participating in such activities. These initiatives taken-up by the institute help its faculty to meet the changing requirements of the curriculum.

#### 2.4.2 Does the institution encourage diversity in its faculty recruitment?
Provide the following details (department / school-wise).

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Department</th>
<th>% of faculty from the Same institution</th>
<th>% of faculty from other institutions within the State</th>
<th>% of faculty from institutions outside the State</th>
<th>% of faculty from Other countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Conservative Dentistry &amp; Endodontics</td>
<td>12</td>
<td>38</td>
<td>50</td>
<td>00</td>
</tr>
<tr>
<td>2</td>
<td>Oral and Maxillofacial Surgery</td>
<td>50</td>
<td>33</td>
<td>17</td>
<td>00</td>
</tr>
<tr>
<td>3</td>
<td>Oral Medicine and Radiology</td>
<td>40</td>
<td>30</td>
<td>30</td>
<td>00</td>
</tr>
</tbody>
</table>
2.4.3 How does the institution ensure that qualified faculty are appointed for new programs/emerging areas of study? How many faculty members were appointed to teach new programs during the last four years?

The institute has well qualified and professionally competent faculty in all its departments in accordance with the DCI & University rules & regulations. Although no new program has been initiated in the institute in the last four years, however, the institute has appointed some new faculty to meet the requirements of the institution and their details are as given below:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Year</th>
<th>No. of Faculty Appointed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2011-2012</td>
<td>06</td>
</tr>
<tr>
<td>2</td>
<td>2012-2013</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>2013-2014</td>
<td>09</td>
</tr>
<tr>
<td>4</td>
<td>2014-2015</td>
<td>07</td>
</tr>
</tbody>
</table>

2.4.4 How many Emeritus/Adjunct Faculty/Visiting Professors are on the rolls of the institution?
None

2.4.5 What policies/systems are in place to academically recharge and rejuvenate teachers? (e.g. providing research grants, study leave, nomination to national/international conferences/seminars, in-service training, organizing national/international conferences etc.)

The institution not only provides academic leave to all the faculties for attending various conferences/CDE program/convention/workshops...
but also provides remuneration of conference registration fee and TA/DA. The Institutional Ethics and Review Board has already proposed to the management for providing grants for the research work conducted by the faculty, and this proposal is currently under consideration. The institute also encourages its faculty to organize state and national level conferences and CDE programs in the institute.

2.4.6 How many faculty received awards/recognitions for excellence in teaching at the state, national and international level during the last four years?

Several faculty members have received awards/recognitions for excellence in teaching.

- Dr. Swatantra Agarwal:
  Member Dental Council of India,
  Member International College of Dentistry
  Member Pierre Fauchard Academy

- Dr. Samarth Agarwal,
  Member International College of Dentistry
  Member Pierre Fauchard Academy

- Dr. K. K. Chaubey,
  Member International College of Dentistry
  Shikshak Sammaan award by Rotary club Moradabad Division, 2012.

- Dr. Seema Chaudhary
  Fellow of International College of Dentistry
  Fellow of Pierre Fauchard Academy
  Shikshak Sammaan award by Rotary club Moradabad Division, 2013.

- Dr. Naveen Manuja
  Shikshak Sammaan award by Rotary club Moradabad Division, 2012.

2.4.7 How many faculty underwent professional development programs during the last four years? (add any other program if necessary)?

Hands on courses concerning skill upgradation are conducted by the institution at regular intervals. Faculty are encouraged to attend skill up-gradation courses/seminars conducted by the University and other organizations also. Kindly refer SSR II Q. No. 27 and departmental documents for details.

2.4.8 How often does the institution organize academic development programs (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management,
Institute encourages its faculty to organize and attend various CDE, conferences, basic workshops, advanced level workshops and focused workshops etc.. Kindly refer SSR II Q. No 30.

2.4.9 Does the institution have a mechanism to retain faculty? What is the annual attrition rate among the faculty?

Various measures are taken by the institute to retain its faculty and these are as follows:

- Faculty needs are identified and addressed promptly.
- Time bound promotions.
- Timely annual increments.
- Conferences/conventions remunerations.
- Provision for loans.
- Well furnished accommodations.
- Excellent work ambience.
- Good salaries as per industry standards.
- Free medical and dental treatment.
- Free schooling for the children in their associated schools.
- Quick redressal of concerns and grievances (if any).
- Participative management and decision making hierarchy system.
- Adequate leave.

Average annual attrition rate is approx. 6.5%

2.4.10 Does the institution have a mechanism to encourage

- Mobility of faculty between institutions/universities for teaching/research?
- Faculty exchange programs with national and international bodies?

If yes, how have these schemes helped in enriching the quality of the faculty?

Institute is in the process of signing MoUs with various Universities/Institute/Hospitals for initiating faculty exchange program. PG students of few departments like Oral Medicine and Radiology and Oral Pathology are posted in Dharamshala Institute of Oncology, Delhi for a period of 45 days. PG students from Department of Oral and Maxillofacial Surgery are posted for two months (observation for Head and Neck Oncology) to Regional Cancer Centre, Trivandrum and Kidwai Memorial Institute of Oncology, Bengaluru.

2.4.11 Does the institution have well defined career advancement policy for Health Science professionals? If yes, outline the policy.
Yes, this institute follows the criteria which are based on the revised DCI regulations for faculty advancements. Furthermore, recommendations of the Principal, assessment by students (based on student feedback forms) and PLIS are also taken into consideration.

- **Reader**: A faculty member shall be promoted to the post of Reader subject to him/her having 4 years teaching experience after the PG qualification (MDS or equivalent); also, the faculty member shall have published at least one paper as first author in an indexed journal, preferably an international journal.

- **Professor**: A faculty member shall be promoted to the post of Professor subject to him/her having 5 years teaching experience as Reader; also, the faculty member shall have published at least two papers as first author in an indexed journal, preferably an international journal.

- **Professor & Head (PG Department)**: A faculty member shall be promoted to the post of Professor & Head subject to him/her having 6 years teaching experience as Reader; also, the faculty member shall have published at least two papers as first author in an indexed journal, preferably an international journal.

2.4.12 How does the institution create synergies with other PG institutes for generating required number of specialists and super specialists?

- PG students from Department in Oral Medicine and Radiology are posted in cancer institute Delhi for a period of 45 days.
- PG students from Department of Oral Surgery are posted for two months observation for Head and Neck Oncology at Regional Cancer Centre, Trivandrum and Kidwai Memorial Institute of Oncology, Bangaluru, Karnataka.
- PG students are encouraged to attend workshops/CDE/conferences conducted by other institutes/universities.

2.4.13 Does the institution conduct capacity building programs/courses in subspecialties for its faculty?

The institute adapts to and implements programs that prove beneficial for its faculty. New requirements/programs/courses such as Implantology, Conscious Sedation etc., as advised by the regulatory body or the faculty are also pursued. Such a system helps the faculty to contribute to their advancement.
2.5 EVALUATION PROCESS AND REFORMS

2.5.1 How does the institution ensure that all the stakeholders are aware of the evaluation processes that are in place?
During the orientation program all the students and stakeholders are formally informed about the evaluation process. Hard copies of the evaluation process are also made available to the students and their parents in the hard copy. The Director, Administrators, Principal and all the HODs are involved in designing the internal evaluation procedure. Before the conduct of examination, students are also informed about the conduct and marks distribution. Students are made aware of their marks allotted in internal examination papers. External exam (theory) is evaluated as per the rules and regulations of the DCI and MJP Rohilkhand University, Bareilly. The outcomes of the evaluation process are brought to the notice of all the stakeholders.

2.5.2 What are the important examination reforms implemented by the institution? Cite a few examples which have positively impacted the examination system.
Institute has to follow guidelines laid down by the DCI and University. Recently some modification in the question paper pattern was made by introducing MCQs.

2.5.3 What is the average time taken by the University for Declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode adopted by the institution for the publication of examination results (e.g. website, SMS, email, etc.).
University declares result always on time, within 1 month from the date of completion of theory and practical exams. The institution displays the results on the notice board of the college and the students are informed about the declaration of the results on phone. Result is also uploaded on college website.

2.5.4 How does the institution ensure transparency in the evaluation process?
Two internal assessments and one pre-University exam are conducted annually for assessment of theoretical knowledge and clinical skills of the students. Before the conduct of examinations, students are also informed about their conduct and distribution of marks. Each clinical department also conducts end posting assessments. Results of these assessments are displayed on the college and departmental notice board. Theory papers are also shown to the students to ensure transparency in evaluation process. For University examinations,
students can apply for re-evaluation/scrutiny of answer papers. Also Refer 2.5.1.

2.5.5 What are the rigorous features introduced by the University to ensure confidentiality in the conduct of the examinations?
The institute follows the strict guidelines laid down by the DCI and University.

- University regularly conducts BOS meeting in which external experts from other universities, Principals of the affiliated colleges and few senior faculty members representing each department are called to finalize the examiner’s panel and to authenticate teaching staff.
- The University appoints Chief Examination Coordinator in their affiliated colleges for smooth conduct of examination.
- Examination papers are set by the external faculties (other universities) in a standard procedure considering confidentiality.
- The answer scripts are designed in such a way as to facilitate decoding.
- During the examination, the University appoints flying squads to prevent malpractices.
- Evaluation of the answer scripts is done centrally in the University campus by both the internal and external examiners of all the affiliated colleges.
- There is a secrecy section in the University which maintains the confidentiality of examination, students and examiners.

2.5.6 Does the institution have an integrated examination platform for the following processes?

- Pre-examination processes – Time table generation, hall ticket, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, online transmission of questions and marks, etc.
- Examination process – Examination material management, logistics, etc.
- Post-examination process – Attendance capture, OMR-based exam result, auto processing, result processing, certification, etc.

The institution has a well defined examination procedure where in two internal assessment and one pre-University examination are conducted before the students appear for the University examination. The time table for internal assessment as well as for University exam are decided well in advance before start of the programme. The college ensures that all the eligible students are enrolled for the respective exams and receive their hall ticket for the exams.
The University examinations are conducted as per the University guidelines. The examination logistics are provided by the University and college ensures that sufficient logistics are available for conducting the examination. The institute appoints the invigilators as per the University guidelines. The examination squads are appointed by the University itself and they are independent members from other affiliated colleges of University. Post-examination, the answer scripts are evaluated as per the University guidelines and the results are announced within one month of the exams.

2.5.7 Has the university/institution introduced any reforms in its evaluation process? Institute has to follow the strict guidelines laid down by its affiliated University. Institute cannot do any modifications in University evaluation process.

2.5.8 What is the mechanism for redressal of grievances with reference to examinations? Give details. The students who are not satisfied with their results/marks can apply for scrutiny of their answer scripts. The institution aids in proper communication with the University. The students personally have to apply for the scrutiny of their answer scripts in the University.

2.5.9 Does the institution have a Manual for Examinations and if yes, does it specifically take cognizance of examination malpractices by students, faculty and non-teaching staff? Yes, the examination process/system is taken care by the Institutional Examination Committee. Institute has its own Examination Manual where in conduct of examination is summarized according to the guidelines laid down by the DCI and MJP Rohilkhand University.

2.5.10 What efforts have been made by the University to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section. Not Applicable.

2.5.11 What are the efforts of the institution in the assessment of educational outcomes of its students? Give examples against the practices indicated below:
- Compatibility of education objectives and learning methods with assessment principles, methods and practices
Compatibility of education objectives and learning methods with assessment principles, methods and practices are well documented in affiliating University and DCI ordinances specific for each program. However any deficiencies are remedied through enrichment programs implemented by each department.

- **Balance between formative and summative assessments**
  Three internal examinations are conducted on annual basis as a part of formative assessment which includes theory, practical and viva-voce. The institute conduct year-end University examination, based on the guidelines of the University. Students are informed well in advance about these examinations and sufficient time is provided for them for its preparation.

- **Increasing objectivity in formative assessments**
  Institute has also adopted MCQs based examination pattern. A part of question paper in both formative and summative assessment also includes MCQ. Refer to 2.5.2.

- **Summative (theory/orals/clinical/practical)**
  The institute conducts year-end University examinations, based on the guidelines of the University. Summative assessment includes theory, practical and viva-voice. Students are informed well in advanced about the conduct and marks distribution of the examination. Refer to 2.5.2.6

- **Theory–structure and setting of question papers–Essays, long answers, shorts answers and MCQs etc. Questions bank and Key answers**
  The University examination and internal assessments (Theory) includes essay questions, short essays short answers, and MCQs. It consists of Part A & Part B consisting of 35 marks (each part). This pattern is as per guidelines laid down by DCI & University. This pattern of examination is also followed by all the departments in their internal assessment examination. All the departments have their own question bank, which are also made available to the students in the central library.

- **Objective Structured Clinical Examination (OSCE)**
  The institute has planned to introduce OSCE from current session.

- **Objective Structured Practical Examination (OSPE)**
  The institute has planned to introduce OSPE from current session.

- **Any other**
None

2.5.12 Describe the methods of prevention of malpractice, and mention the number of cases reported and how are they dealt with?

- The examination is conducted in common examination hall under the supervision of Institutional Examination Committee.
- Guidelines, rules and regulations regarding examination process are also mentioned in KDCRC Examination Manual.
- Internal squad is also appointed by the institute comprising of both male and female faculty to prevent any sort of malpractice during the examination process.
- Appointment of invigilator and their duty is monitored by Institutional Examination Committee.
- Invigilators are apprised well in advanced about the rules and regulations of the examination process.
- In case of University examination, Centre Superintendent and invigilators are selected as per the University guidelines.
- University also send its representative for the smooth conduct of the examination.
- University also appoint external squad which comprises of both male and female faculty from other Institute or University to observe any type of malpractice during the examination process.
- During the examination period, the college library is kept closed as per University guidelines.
- No case of malpractice has been reported in the past four years.

2.6. STUDENT PERFORMANCE AND LEARNING OUTCOMES

2.6.1 Has the institution articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?

The institute is a professional institute which not only trains its graduate in dentistry but also educates them in imbibing good ethical & moral values, national integration, community needs and services etc. The institute also encourages its students to participate in both the curricular & extra-curricular activities and beyond scholarly activities. Institute also organizes orientation program at the beginning of each academic year. Lectures on soft skills and critical thinking are also conducted. On successful completion of the course, the students are found to be not only a knowledgeable and skilled dentist but also a good human being.

The institute has successfully trained around 100 BDS students per year since 2005 and around 26-40 MDS students since 2009.
2.6.2 Does the institution have clearly stated learning outcomes for its academic programs/departments? If yes, give details on how the students and staff are made aware of these?

The Institute strictly follows the guidelines laid down by its Regulatory Bodies (DCI & University) and these are also clearly stated and reflected in goals and objective of the institute. These are also easily accessible through the Institutional website. UG and PG curriculum are prepared and are circulated among all the students. Academic calendar and time table are also prepare and are also circulated to students and faculty. Percentages of teaching/clinical/practical hours are allotted as per DCI rules and regulations. Students are also informed about the required minimum pre-clinical/clinical/practical quota and the maintenance of manuals/quota book/log book at the beginning of the academic session.

2.6.3 How are the institution’s teaching-learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes

- The institute has a sufficient pool of highly skilled, experienced and motivated faculty to educate students.
- The institute also has sufficient clinical material, infrastructure, instruments/equipments, material and manpower required to train the students.
- Mentor-Mentee program and provision for remedial classes.
- Student feedback system.
- Regular assessment exercises i.e. internal & external assessment (theory, group discussion, viva-voice, seminars, journal club presentation, case presentations, practicals etc.)
- Also refer 2.5.1, 2.5.4, 2.5.11, 2.5.12

2.6.4 How does the institution ensure that the stated learning outcomes have been achieved?

The institute facilitates and monitors the implementation and outcome of the graduate attributes, which also include its learning outcomes. Based on the results of formative and submissive assessments, the performance outcome of the students is assessed. Students/ faculty feedbacks are also an indicator of the gross impact of the learning outcomes. The overall pass percentage of the students by themselves is indicative of the synergy between the institution’s efforts, strategies or focus with the overall learning outcomes. Also refer 2.6.1

Any other information regarding Teaching-Learning and Evaluation which the institute would like to include.

*********************************************************************************
CRITERION III

(A Scientific Society of KDCRC)
CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 PROMOTION OF RESEARCH

3.1.1 Is there an Institutional Ethics and Review Board which monitors and addresses issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes, Institutional Ethics and Review Board (IERB) is in place which monitors and addresses research, ethical and publication issues related to faculty and students (UG and PG). This committee conducts regular meetings or meet on as and when required basis also. The constitution of these committees is given in Annexure No. 8.

Major decisions taken in recent meetings are as follows:

- **Recommendation:** To procure research related equipments, materials and infrastructure.
  **Impact of recommendation:** Procured Colony Counter and Analyser, Cell Counter for Department of Pathology and Microbiology.

- **Recommendation:** To get the institute accredited by NAAC, Bengaluru.
  **Impact of recommendation:** The institute has initiated process for getting accredited by NAAC. LOI has already been filed.

- **Recommendation:** To create and promote a platform for discussion and knowledge enhancement related to research.
  **Impact of recommendation:** Organisation of “Sanchetana” a scientific meet on regular basis.

- **Recommendation:** To ensure manuscripts sent for publication are in accordance with the Institutional policies.
  **Impact of recommendation:** Formation of IERB and it is made mandatory for all the manuscripts to take clearance from IERB before sending for publication.

- **Recommendation:** To get the institute recognised by DSIR, Delhi for applying for financial support from government funding agencies.
  **Impact of recommendation:** Under consideration

- **Recommendation:** To get increased funding for facilitating staff to attend national or international conferences/seminars/ conventions/workshops etc.
  **Impact of recommendation:** Under active consideration.
 Recommendation: To fix a suitable financial grant in support for thesis work by PG students.

Impact of recommendation: Forwarded to the Management for evaluation and implementation.

3.1.2 Does the institution have an institutional ethics committee to monitor matters related to the ethics of inclusion of humans and animals in research?

Yes, Institute has an Institutional Ethics and Review Board to monitor any ethical related matter pertaining to Humans or Animals. IERB conducts regular meetings, on as and when required basis. The constitution of this committee is given in Annexure No. 8

3.1.3 What is the policy of the university to promote research in its affiliated/constituent colleges?

Not Applicable. The institute is affiliated to M. J. P. Rohilkhand University Bareilly, (UP) for award of BDS & MDS degree in Dental Sciences. The University mandates dissertation submission for PG students before University Examinations. University does not provide any grant for research. The research activities are also promoted by the institute by providing grants in the form of institutional infrastructures, reimbursement of the conference/convention registrations, TA/DA etc.

3.1.4 What are the proactive mechanisms adopted by the institution to facilitate the smooth implementation of research schemes/projects?

The Institution has proactive system to promote research activities and inculcate research culture in its faculty and students to undertake and to apply for extramural funding. Guidelines have been laid down by IERB to facilitate the smooth implementation of research schemes/projects

a. Externally funded projects (both government and private agencies):

- Advancing funds for sanctioned projects.
  IERB encourages the researchers to apply for funding from external agencies and also have constituted guidelines. In case if the projects are approved by the funding agency and there is a delay in transfer of funds, the institute also provide advance fund to the Principal Investigator through an institutional mechanism and guidelines laid down by IERB.

- Providing seed money.
  The IERB has forwarded the recommendation to the Management for sanction of INR 5,000 per research to be conducted in the institute after approval by IERB/Principal.
Simplification of procedures related to sanctions/purchases to be made by the investigators. Once the amount is credited to the faculty member, he/she has complete freedom to undertake his/her own purchases in relation to the commencement, progress and completion of the research project. The Institutional Purchase & Maintenance Committee also assists and helps the researcher by providing information regarding the vendors from where required equipments/research materials can be procured. Relevant bills or any expenditure made towards this research should be submitted to the Principal/IERB.

Autonomy to the principal investigator/coordinator for utilizing overhead charges. Complete autonomy is given to the Principal Investigator for utilising the sanctioned amount and the grants are timely released. The IERB/Principal had forwarded the recommendations to the Management to release the advancing funds and the seed money on the request of Principal Investigator in a timely manner.

Timely auditing. External funding agency is free to audit the project anytime. Internal audits are conducted by Accounts Section under the directives of Principal KDCRC.

Submission of utilization certificate to the funding authorities. Yes, the utilization certificates are prepared as per the prescribed format of the funding agency promptly, without any delay.

Writing proposals for funding. Any faculty can submit research proposal to any national or international funding agencies. In addition whenever there is call for proposal on specific thrust areas from the funding agencies, IERB conducts meetings/discussions with concerned departments for their information. IERB also assist in formulation of the research proposal as per guidelines.

Any training given for writing proposals IERB had planned to conduct a workshop on proposal writing in collaboration with ICMR.
b. **Institution sponsored projects:**
   - **Providing seed money**
     The Management of this institute has agreed to provide seed money for any type of research activity by allocating separate research head as a part of the Annual Budget.
   - **Proportion of funds dedicated for research in the annual budget.**
     Management of the institute allocates research grants as part of the annual budget allocation which is approximately 2%.
   - **Availability of funding for research/training/resources.**
     Faculty members of KDCRC can utilize grants from the institute, government agencies (e.g. ICMR, DBT etc.), industry (e.g. Colgate Palmolive) for research. Faculty members are also provided with the additional grants from the institute like reimbursement made towards conferences/workshops registration, TA/DA, sanctioning of duty leave etc. These funds are released by the Management of institute on recommendation by the Principal. The investigator can also utilize the infrastructure of the institute free of cost.
   - **Availability of access to online data bases.**
     The institute has its own learning resources (hard & soft copy). These are available in KDCRC Central Library and to some extent in departmental library. The institute has also subscribed “EBSCOhost online data base” through which faculty and students can freely assess many National and International journals, by providing them with username and password.

3.1.5 **How is multidisciplinary/interdisciplinary/transdisciplinary research promoted within the institution?**
   - **Between/among different departments/and**
     - The institute encourages its faculty and PG students to conduct interdepartmental researches. Many interdepartmental projects have been conducted in the past and some of them are in progress.
     - Interdepartmental meetings are regularly conducted to know the research issues in general about all the departments.
     - Intradepartmental scientific session under the name of “Sanchetana” is conducted on regular basis.
Collaboration with national/international institutes/industries.
- The institute also encourages conducting research in collaboration with national institutes/industries.
- IERB assist faculty and students to formulate research proposal and to collaborate with external agencies.
- Annexure No. 9

3.1.6 Give details of workshops/training programs/sensitization programs conducted by the institution to promote a research culture in the institution.

The details of workshops/training programs/sensitization programs conducted by the institution to promote a research culture in the institution are as follows:

- Presentation by Dr. Satyaki Arora on “Guidance for MDS Coaching” on 27 Jan 2014.
- Workshop & interactive session on “Avenues in Dentistry” by Maj. Gen. P. N. Awasthi, Dr. Rajiv Chugh & Dr. Atul Soni, on 17 Dec 2013.
- Workshop on “Basic Life Support” on 07 Dec 2013.
- CDE programme by Dr. Nidhi Kohli on 28 Nov 2013.
- CDE programme by Dr. Sukhdeep Singh on “Crown It” on 27 Nov 2013
- Guest lecture by Dr. Vikas Agarwal on “Immunity & Host Response- Basic Concepts” on 01 Aug 2013
- CDE programme on “Advancements in Endodontics” by Dr. P D Joshi on 01 Jul 2013.
- CDE programme on “Composites in Aesthetic Dentistry” by Dr. Madhav Murthy on 26 Feb 2013.
- “A Leap Ahead to Dental Implants: Basic Implant Course-2012” commenced from 2nd week of May 2012.
- Guest lecture by Dr. Amnon Leitner of Israel on “Use of Computer Tomography in Dentistry” on 15 Dec 2011.
- 1st International congress on “Dental Health & Chronic Diseases” on 15 Sep 2011.
3.1.7 How does the institution facilitate researchers of eminence to visit the campus? What is the impact of such efforts on the research activities of the institution?
The institute regularly organises various lectures pertaining to dentistry, research methodology, ethics etc by eminent/guest faculty. This provides a platform for KDCRC faculty and students to interact with leading practitioners, consultants and researchers in the specialty. Maj. Gen. P.N. Awasthi, Dr. Rajiv Chugh, Dr. Atul Soni, Dr. N. Gnanasundaram, Dr. P D Joshi, Dr. Amnon Leitner of Israel, Dr. L. Nagesh, Dr. Porus Turner have been invited by the institute as an eminent/guest faculty for sharing their experiences which has not only helped the faculty and students, but also assisted the institute in developing a state-of-the-art facility.

3.1.8 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.
The institution had allocated separate budget head for research under institutional Annual Budget. Total budget allocated on research is approx 2 %.
Year-wise break-up of the college research grants sanctioned and utilised

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Amount Granted (INR)</th>
<th>Amount Utilized (INR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012 – 2013</td>
<td>2500000.00</td>
<td>2155118.00</td>
</tr>
<tr>
<td>2013 – 2014</td>
<td>2500000.00</td>
<td>1667935.00</td>
</tr>
<tr>
<td>2014 – 2015</td>
<td>3000000.00</td>
<td>2783201.00</td>
</tr>
</tbody>
</table>

3.1.9 In its budget, does the university earmark funds for promoting research in its affiliated colleges? If yes, provide details.
Not applicable. The institute is affiliated to M. J. P. Rohilkhand University, Bareilly (UP) for awarding BDS & MDS degree in Dental Sciences. The University doesn’t provide any sort of research associated grants.

3.1.10 Does the institution encourage research by awarding Postdoctoral Fellowships/Research Associateships? If yes, provide details like number of students registered, funding by the institution and other sources.
Since the institute is affiliated to M. J. P. Rohilkhand University, Bareilly (UP) for award of BDS & MDS degree in Dental Sciences the Institute cannot award Postdoctoral Fellowships/Research Associateship on its own. However, institute encouraged research activities by providing grants and infrastructural support.
3.1.11 What percentage of faculty have utilized facilities like sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the institution monitor the output of these scholars?
The institute encourages its faculty for pursuit of higher research and training in premier institutions within the country and abroad, however overall utilization of this facility is low.
- Dr. Ashish Sharma from Dept. of Oral and Maxillofacial Surgery has completed fellowship in aesthetic medicine at Institute of Lasers and Aesthetic Medicine, New Delhi.
- Dr. Abhishek Singh from Dept. of Oral and Maxillofacial Surgery is on sabbatical leave for fellowship in Cleft and Craniofacial Surgery, at SRMS institute, Chennai.

3.1.12 Provide details of national and international conferences organized by the institution highlighting the names of eminent scientists/scholars who participated in these events.
The details of conferences organised by the college, highlighting the names of eminent scientists/scholars who participated in these events, have been described under 3.1.6.

3.1.13 Mention the initiatives of the institution to facilitate a research culture in the below mentioned areas:
- **Training in research methodology, research ethics and biostatistics.**
  - The institute provides training in Research Methodology and Biostatistics through lectures taken by faculty of Department of Public Health Dentistry for 1st year PG students.
  - The institute also organizes CDE programmes in Research Methodology and Research Ethics to develop the scientific temperament.
- **Development of scientific temperament.**
  - Institute develops research culture and temperament in its faculty and students by organizing “Sanchetana”, guest lectures, workshops and CDE programmes on regular basis.
  - The institute encourages its faculty and students to attend various National and International conferences.
  - The institute also provide grants for such activities.
  - Motivating its faculty and students to undertake various collaborative research projects.
- **Presence of Medical/Bio Ethics Committee.**
  IERB is responsible for any issue related to research, ethic and publications.
- **Research linkages with other institutions, universities and centres of excellence. (national and international).**
  Various collaborative researches are on-going with other institutions and agencies. Annexure No. 9.

- **Research programs in Basic Sciences, Clinical, Operational Research, Epidemiology, Health Economics, etc.**
  Various research programs in Basic Sciences, Clinical, Operational Research, Epidemiology, Health Economics, etc. are undertaken by students and faculty in the form of dissertation or short studies. Annexure No. 10 & 11.

- **Promotional avenues for multi-disciplinary, inter-disciplinary research.**
  There is extensive inter-departmental multi-disciplinary research undertaken in the institute, the details of which are provided in Annexure No. 12.

- **Promotional avenues for translational research.**
  Faculty and students undertake research projects which benefit society, either in diagnosis or treatment of Oral and Maxillofacial Diseases.

- **Instilling a culture of research among undergraduate students.**
  The institute or its department motivates UG students to undertake research activity in the form of small projects, models, departmental presentations (seminars, case report etc.), and also ensure proper conduct and their participation. They are also motivated to participate in various inter-college scientific session, student IDA conferences, seminars, hands-on courses etc.

- **Publication-based promotion/incentives.**
  Yes, the faculty and students with best publication are honoured and appreciated during various programs, conducted by the institute. At the time of promotion, publications are taken into the consideration.

- **Providing travel grant for attending national/international conference and workshops.**
  Faculties are reimbursed for their registration and travel expenses once a year for attending any National or International conferences.
3.1.14 Does the institution facilitate

- R&D for capacity building and analytical skills in product development like diagnostic kits, biomedical products, etc. for the national/international market:
  The institute provides a very conducive environment for research, capacity building and developing analytical skills. Faculty members and students of KDCRC had already undertaken research and in process for applying to various funding agencies. Projects are also undertaken in collaboration with other institutes, labs and industries.

- Development of entrepreneur skills in health care:
  The institute conducts various Professional Development Programs which focus on entrepreneur skills, leadership, time management etc. Many alumni of the institute run and manage their own private clinic, successfully.

- Leadership role for stem cell research, organ transplantation and harvesting, Biotechnology, Medical Informatics, Genomics, Proteomics, Cellular and Molecular Biology, Nanoscience, etc.:
  KDCRC believes in producing highly trained professionals in multifarious disciplines of dentistry, the institution does undertake research projects (albeit at a lower scale) involving microbiology, biotechnology, pathology, and immune-histochemistry related to dental and oral health. Further, the institution is currently considering expanding its horizon in research in these and some more specialised areas related to oral cancer.

3.1.15 Are students encouraged to conduct any experimental research in Yoga and/or Naturopathy?
Students are encouraged to undertake research related to dentistry. Some of the research projects are conducted in various departments using natural herbal products like aloe vera, grape seed extract, lemon grass extract etc. Annexure No. 4.

3.2 RESOURCE MOBILIZATION FOR RESEARCH
3.2.1 How many departments of the institution have been recognized for their research activities by national / international agencies (ICMR, DST, DBT, WHO, UNESCO, AYUSH, CSIR, AICTE, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.
None
3.2.2 Provide the following details of ongoing research projects of faculty:
The details of on-going research projects by the faculty are listed in Annexure No. 11.

<table>
<thead>
<tr>
<th>Year</th>
<th>No of Project (started)</th>
<th>Grant</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013–2014</td>
<td>41</td>
<td>Institutional Funded</td>
</tr>
<tr>
<td>2014-2015</td>
<td>43</td>
<td>Institutional Funded</td>
</tr>
</tbody>
</table>

3.2.3 Does the institution have an Intellectual Property Rights (IPR) Cell?
The institute does not have Intellectual Property Rights (IPR) Cell per se, to some extent IERB takes care of intellectual property, copyright, plagiarism, conflict of interest etc.

3.2.4 Has the institution taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?
The institution has taken efforts to encourage its faculty to file for patents by encouraging them and by providing various types of research grants to facilitate research projects and to apply for patents. Till date, no patents have been filed by faculty members.

3.2.5 Does the institution have any projects sponsored by the industry/corporate houses? If yes, give details such as the name of the project, funding agency and grants received.
Yes, the institution has a project sponsored by the Himalaya Drug Company, Dr. K. K. Chaubey being the Principal Investigator. Grants have been received for this project.

3.2.6 List details of
a. Research projects completed and grants received during the last four years (funded by National/International agencies).
Refer to 3.2.2.

b. Inter-institutional collaborative projects and grants received
   i) National collaborations
   ii) International collaborations
   The institute in collaboration with other institutions have conducted / is in process of conducting various research projects which are listed in Annexure No. 9.
3.2.7 What are the financial provisions made in the institution budget for supporting students’ research projects?
As mentioned in 3.1.8, a separate provision exists for research in the Annual Budget which is approx. 2%. KDCRC faculty and students can avail this grant from this budget.

3.3 RESEARCH FACILITIES

3.3.1 What efforts have been made by the institution to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?
Research & Development is an integral part of institute’s aim and Objectives. Each department is equipped with infrastructure to carry out basic and advanced research. At the beginning of year, each department have to provide a consolidated list of newer equipments/instruments/materials to be purchase to the IERB which is then forwarded to the Management. Each department is also equipped with computer systems, internet, printer and centralized photocopy facility to aid students and faculty. Institution also regularly update research facilities of various departme

t on need based basis. Few examples of recently procured equipments/instruments/materials are as follows:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Equipments/Instruments</th>
<th>Materials</th>
<th>Books/Journals/e-resources</th>
<th>Software</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Endodontic Pressure Syringe</td>
<td>Bone graft material</td>
<td>EBSCOhost</td>
<td>Nemoc eph</td>
<td>Upgraded surgical ICU</td>
</tr>
<tr>
<td>2</td>
<td>CAD-CAM Scanner</td>
<td>Injectable Gatta Percha</td>
<td>Subscription to all speciality journals</td>
<td>Epson V700</td>
<td>Minor OT in Dept of Pedodontics</td>
</tr>
<tr>
<td>3</td>
<td>Endodontic microscope</td>
<td>Ceramic Brackets</td>
<td>-</td>
<td>Denta-scan</td>
<td>Upgradation of Phantom Heads in Dept of Pedodontics</td>
</tr>
<tr>
<td>4</td>
<td>Injection molding system</td>
<td>Self Ligating Brackets</td>
<td>-</td>
<td>Bio wizard</td>
<td>Upgradation of Gymnasium</td>
</tr>
<tr>
<td>5</td>
<td>Surgical Oscillating Saw</td>
<td>Lingual Brackets</td>
<td>-</td>
<td>-</td>
<td>Installation of CCTV Cameras</td>
</tr>
<tr>
<td>6</td>
<td>Lasers</td>
<td>Nano</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
### Table: Equipment List

<table>
<thead>
<tr>
<th>No.</th>
<th>Equipment Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Electric cautry</td>
<td>Composit</td>
</tr>
<tr>
<td>8</td>
<td>Right Angled Surgical Handpiece</td>
<td>Expaseal</td>
</tr>
<tr>
<td>9</td>
<td>Conscious sedation Unit</td>
<td>Protem –3</td>
</tr>
<tr>
<td>10</td>
<td>Anaesthesia work station with Ventilator support</td>
<td>Flexi resin</td>
</tr>
<tr>
<td>11</td>
<td>Surgical Microscope</td>
<td>denture base material</td>
</tr>
</tbody>
</table>

#### 3.3.2 Does the institution have an Advanced Central Research facility?
If yes, have the facilities been made available to research scholars?
**What is the funding allocated to the facility?**
All the departments are equipped with adequate infrastructure to carry out basic and to some extent advanced research. Faculty and students can avail these facilities to carry out any type of research activities. In case of advanced research facilities, the Institute has tie-ups with both private and government laboratories and various institutes. Few such tie-up projects have been completed, and are on-going.

#### 3.3.3 Does the institution have a Drug Information Centre to cater to the needs of researchers? If yes, provide details of the facility.
The institute does not have a separate Drug Information Centre. Most of the faculty in the institute is highly qualified and experienced. In case of any adverse drug reaction or issues related to drug Head, Department of Pharmacology is consulted/informed.

#### 3.3.4 Does the institution provides residential facilities with computer and internet facilities for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists(national/international)?
The institute is Wi-Fi enabled, and each department is also equipped with computer with internet connection, printer/scanner. Faculty and students can freely avail this facility to carry out departmental or research project. PG students are also encouraged to procure their own laptops.
3.3.5 Does the institution have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.
The institute allows research scholars from other institutes or associated field to utilize the research facilities available in the institute. They only have to obtain a request letter from the Director/Principal of their institute, forwarded to KDCRC Director/Principal. Letter is then forwarded to IERB, which is then forwarded to concerned HOD. Constant monitoring of this activity is done by IERB, and after completion of this work; it is again informed to KDCRC Director/Principal.

3.3.6 Clinical trials and research
- Are all the clinical trials registered with CTRI (Clinical Trials Research of India)?
- List a few major clinical trials conducted with their outcomes.
  - Yes, the IERB of the institute insists all the clinical trials in the institute to be registered with CTRI. Faculty and student are recommended to follow the guidelines laid down by IERB. Few of the clinical trial registered with CTRI are:
    - Title: Non-surgical periodontal therapy in type II diabetic patients.
    - PI: Dr. Ravishankar TL, MDS, Department of Public Health Dentistry. CTRI Trial No: CTRI/2013/05/003660

3.4 RESEARCH PUBLICATIONS AND AWARDS

3.4.1 Does the institution publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.
Yes, institute regularly publishes its own peer reviewed, indexed journal “Chronicles of Dentistry” which is published biannually having an ISSN No 2278 – 8603.
The composition of the Editorial Board of this journal is as follows:
  - Editor-in-Chief: Prof. Pradeep Tangade
  - Associate editors: Dr. Ravi Madan and Dr. Ashish Sharma
  - Chief Advisor: Prof. Swatantra Kumar Agarwal
Various reputed and highly qualified faculty from KDCRC and other institutes are also included in editorial/reviewer board and advisory board.

3.4.2 Give details of publications by the faculty and students:
* Number of papers published in peer reviewed journals (national/international)
* Monographs
* Chapters in Books
* Books edited
* Books with ISBN with details of publishers
* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, EBSCO host, Google scholar, etc.)
* Citation Index – range / average
* Impact Factor – range / average
* Source Normalized Impact per Paper (SNIP)
* SCImago Journal Rank (SJR)
* h-index

<table>
<thead>
<tr>
<th>S.No</th>
<th>Department</th>
<th>National Publications</th>
<th>International Publications</th>
<th>Total Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Conservative Dentistry &amp; Endodontics</td>
<td>44</td>
<td>28</td>
<td>72</td>
</tr>
<tr>
<td>2</td>
<td>Oral and Maxillofacial Surgery</td>
<td>23</td>
<td>08</td>
<td>31</td>
</tr>
<tr>
<td>3</td>
<td>Oral Medicine and Radiology</td>
<td>33</td>
<td>22</td>
<td>55</td>
</tr>
<tr>
<td>4</td>
<td>Oral Pathology &amp; Microbiology</td>
<td>29</td>
<td>17</td>
<td>46</td>
</tr>
<tr>
<td>5</td>
<td>Orthodontics &amp; Dentofacial Orthopaedics</td>
<td>38</td>
<td>14</td>
<td>52</td>
</tr>
<tr>
<td>6</td>
<td>Pedodontics and Preventive Dentistry</td>
<td>42</td>
<td>37</td>
<td>79</td>
</tr>
<tr>
<td>8</td>
<td>Periodontology</td>
<td>56</td>
<td>7</td>
<td>63</td>
</tr>
<tr>
<td>9</td>
<td>Prosthodontics and Crown &amp; Bridge</td>
<td>53</td>
<td>8</td>
<td>61</td>
</tr>
<tr>
<td>10</td>
<td>Public Health Dentistry</td>
<td>22</td>
<td>26</td>
<td>48</td>
</tr>
<tr>
<td>11</td>
<td>Basic Sciences</td>
<td>14</td>
<td>5</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>348</td>
<td>170</td>
<td>518</td>
</tr>
</tbody>
</table>

(Annexure No. 13 and SSR 2, Question No. 22)
3.4.3 Does the institution publish any reports/compilations/clinical round-ups as a part of clinical research to enrich knowledge, skills and attitudes?
“Special Cases”, “Case of the Month” is displayed on the notice board of the departments.

3.4.4 Give details of

- faculty serving on the editorial boards of national and international journals

<table>
<thead>
<tr>
<th>S. No</th>
<th>Faculty</th>
<th>Journals</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Swatantra Agarwal</td>
<td>Department of Prosthodontics Crown &amp; Bridge</td>
</tr>
<tr>
<td></td>
<td>Member</td>
<td></td>
</tr>
<tr>
<td></td>
<td>◦ Journal of Indian Prosthodontic Society.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>◦ Editorial Board, Pierre Fauchard Academy.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>◦ Editorial Board, Indian Journal of Dental Specialties &amp; Research.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>◦ Editorial Board, Central India Journal of Dental Sciences.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>◦ Chief Advisor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>◦ Chronicles of Dental Research</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Dr. Samarth Kumar Agarwal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Name</td>
<td>Designation</td>
</tr>
<tr>
<td>---</td>
<td>-------------------------------</td>
<td>--------------------------------------</td>
</tr>
</tbody>
</table>
| 3 | Dr. Ravi Madan                | Associate Editor                     | - Chronicles of Dental Research.  
- Member of Advisory Board,  
- Journal of Indian Dental Association, Uttarakhand |
|   |                               |                                      |                           |
| 4 | Dr. Shashi Prabha Tyagi       | Member                               | - Editorial board Chronicles of dental research  
- Journal of Advanced Researches in Biological Sciences |
| 5 | Dr. Rajni Nagpal              | Member                               | - Editorial Board in Annals of Dental Specialty Journal  
- Associate Editorial team of World Research Journal of Dentistry  
- Editorial Board in Austin Journal of Clinical Case Reports |
| 6 | Dr. Dakshita Joy Sinha        | Member                               | - Reviewer Board Of Annals of Dental Speciality  
- Reviewer Board of African Journal Of MicroBiology Research  
- Scientific Committee of Indian Journal of Contemporary Dentistry  
- Advisory Board Of Bio info Publications  
- Life Member Of Journal Of Advanced Research In Biological Science |
| 7 | Dr. Rajendra G. Patil,        | Reviewer                             | - Journal of Indian Association of Oral Medicine and Radiology |
| 8 | Dr. Narendra Nath Singh       | Member                               | - Indian Association of Oral and Maxillofacial Pathology (2009-15)  
- Journal of Oral Health and... |
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<tr>
<th>Research</th>
<th>Department of Oral and Maxillofacial Surgery</th>
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<tr>
<td></td>
<td>9 Dr. Ashish Sharma, Associate-Editor-in Chief</td>
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<td></td>
<td>10 Dr. Manpreet Singh Reviewer</td>
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<tr>
<td></td>
<td>Department of Orthodontics and Dentofacial Orthopedics</td>
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<td>11 Dr. Santosh Kumar Verma Member</td>
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<td></td>
<td>Department of Pedodontics and Preventive Dentistry</td>
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<td></td>
<td>12 Dr. Seema Chaudhary Member</td>
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<td>13 Dr. Naveen Manuja Member</td>
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<td>14 Dr. Ashish Amit Sinha Member</td>
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<td>Department of Periodontology</td>
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<td>15 Dr. K. K. Chaubey Member</td>
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<td>Department of Public Health Dentistry</td>
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<td>16 Dr. Pradeep Tangade Editor-in Chief</td>
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</table>

- Indian Journal of Dental Specialities and Research
- Chronicles of Dental Research
- National Journal of Maxillofacial Surgery
- Chronicles of Dental Research
- Chronicles of Dental Research
- Chronicles of Dental Research
- Chronicles of Dental Research
- Chronicles of Dental Research
- Chronicles of Dental Research
- Chronicles of Dental Research
- Journal Of Indian Society Of Periodontology
- Chronical Of Dental Research
- Executive Committee Of Journal Of Advance Research & Biological Science (JARBS).
- faculty serving as members of steering committees of national and international conferences recognized by reputed organizations/societies.

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<tr>
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<tr>
<td>1</td>
<td>Dr. Swantantra Agarwal</td>
<td>❖ 37&lt;sup&gt;th&lt;/sup&gt;UP State Conference held in Moradabad in Nov 2014</td>
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<td>3</td>
<td>Dr. Ravi Madan</td>
<td>❖ 1&lt;sup&gt;st&lt;/sup&gt; International congress on dental health and chronic diseases of affluence held in Moradabad in Sept 2011</td>
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<td>Dr. Romil Singhal</td>
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<td>5</td>
<td>Dr. Siddhi Tripathi</td>
<td>❖ 1&lt;sup&gt;st&lt;/sup&gt; International congress on dental health and chronic diseases of affluence held in Moradabad in Sept 2011</td>
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## Oral and Maxillofacial Surgery

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<tr>
<th></th>
<th>Name</th>
<th>Conference/Workshop</th>
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</table>
| 6 | Dr. Manoj Chaudhary   | ❖ BLS (2014) Kothiwal Dental College Moradabad  
|   |                       | ❖ Escos (2011) Kothiwal Dental College Moradabad  
|   |                       | ❖ Rhinorth-(Delhi) 2014                                                               |
| 7 | Dr. Ashish Sharma     | ❖ BLS (2014) Kothiwal Dental College Moradabad  
|   |                       | ❖ Escos (2011) Kothiwal Dental College Moradabad                                    |
| 8 | Dr. Manpreet Singh    | ❖ BLS (2014) Kothiwal Dental College Moradabad  
|   |                       | ❖ Escos (2011) Kothiwal Dental College Moradabad  
|   |                       | ❖ 2nd International Conference On Tmj&Pediatric Craniofacial Disorder (KGMC Lucknow) |
|   |                       | ❖ Microvascular Reconstructive Surgery Workshop(KGMC Lucknow)                          |
| 9 | Dr. Nimish Agarwal    | ❖ BLS (2014) Kothiwal Dental College Moradabad  
|   |                       | ❖ Escos (2011) Kothiwal Dental College Moradabad                                    |

## Department of Public Health Dentistry

<table>
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<tr>
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<th>Name</th>
<th>Conference/Workshop</th>
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<tbody>
<tr>
<td>10</td>
<td>Dr. Sumit Kumar Pal</td>
<td>XVIII National Conference of Indian Association of Public Health Dentistry, held in Lucknow.</td>
</tr>
</tbody>
</table>

Also Refer SSR 2, Q No. 25 and 26

### 3.4.5 Provide details for the last four years

❖ research awards received by the faculty and students
❖ national and international recognition received by the faculty from reputed professional bodies and agencies

Refer SSR 2, Question No.29.
3.4.6 **Indicate the average number of post graduate and doctoral scholars guided by each faculty during the last four years.**

The PG scholars are guided by the faculty with a minimum experience of 4 years. During the last four years the average numbers of post graduate scholars guided by these faculties are approx 1 to 2 students/year.

3.4.7 **What is the official policy of the institution to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.**

- The institute have policy/channel through with academic and research practices are constantly monitored for any type of misconduct, malpractice, copyright, plagiarism etc. These are monitored by IERB. Before commencing any research activity, approval/clearance from IERB is mandatory. Faculty or students have to submit the manuscript before publication to the IERB, and only after clearance from the IERB the manuscript can be sent for publication. All faculty and or students have to follow these guidelines.
- Till date, only one case has been reported and was aptly attended by IERB.

3.4.8 **Does the institution promote multi/interdisciplinary research? If yes, how many such research projects have been undertaken and mention the number of departments involved in such endeavours?**

Yes, the institution promotes multi/interdisciplinary research. Such type of research has been undertaken by many departments. Details of which are given in Annexure No.12. Also Refer 3.1.13

3.4.9 **Has the university instituted any research awards? If yes, list the awards.**

Not applicable

3.4.10 **What are the incentives given to the faculty and students for receiving state, national and international recognition for research contributions?**

Recognition is given to the faculty and students for receiving state, national or international recognition at various functions organized by the institute. Faculty presenting papers/posters in various National/International conferences/conventions/workshops are granted duty leaves, reimbursement for conference fee or TA/DA. Personal appreciation/appraisal is also given by Management and Principal for such contributors.
3.4.11 Give details of the postgraduate and research guides of the institution during the last four years.
Details of the PG students and their respective guides for last four years is given in Annexure No. 10.

3.5 CONSULTANCY

3.5.1 What are the official policy/rules of the institution for structured consultancy? List a few important consultancies undertaken by the institution during the last four years.
The institute provides consultancy services to:
- Consultancy to DCI: KDCRC faculty regularly visit other dental institute for inspection and accreditation through Dental Council of India.
- Consultancy to NGO: The institute participate in various oral health camps organized by NGOs.
- Consultancy to Villages: The institute regularly organises oral as well as general health camps in nearby villages where free consultancy is given regarding promotion of oral and general health.
- Consultancy to Schools: Regular school dental health programmes are organised in various schools of Moradabad city and its outskirt.
- Consultancy to Cleft Lip and Palate Patients: Smile Train Project.

3.5.2 Does the university have an industry institution partnership cell? If yes, what is its scope and range of activities?
The institute does not have an industry-institution partnership cell, but it collaborates with industries in terms of their employee’s treatment, imparting dental education and collaborative research projects.

3.5.3 What is the mode of publicizing the expertise of the institution for consultancy services? Which are the departments from whom consultancy has been sought?
The institute publicizing its expertise for consultancy services through:
- Available on college website
- Publicized through advertisement in newspapers and Cable T.V
- Expertise are also publicised through posters, banners and pamphlet
- Delivery of guest lectures by its faculty at various schools, other institutes, villages, NGOs etc.
The college also hand out press-releases about achievements of its faculty regarding diagnosis and treatment of unusual cases.

3.5.4 How does the institution utilize the expertise of its faculty with regard to consultancy services?
The institute encourages and motivate its faculty members to render consultancy in their area of expertise as:
- DCI members & inspectors
- University inspectors
- Member, Board of Studies in various Universities
- Member, various organization
- Member, academic council in various universities
- Visiting schools, oral health education
- Visiting NGOs providing quality dental treatment

3.5.5 Give details regarding the consultancy services provided by the institution for secondary and tertiary health care centers and medical/dental practitioners.
The institution has a Satellite Centre in Pachokara village, where in free dental check-up and treatment is given to the rural community.

3.5.6 List the broad areas of consultancy services provided by the institution and the revenue generated during the last four years.
Each department’s revenue generated by consultancy services has already been mentioned in SSR 2(Question No. 24). Institute regularly conducts free education and treatment camps for the community, school, village, NGOs.

3.6 EXTENSION ACTIVITIES AND INSTITUTIONAL SOCIAL RESPONSIBILITY (ISR)

3.6.1 How does the institution sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programs which have created an impact on students’ campus experience during the last four years.
Faculty and students are encouraged to participate in carrying out social outreach programs. Information regarding these programs is disseminated to the students and faculty from the Head of the Institute.
- Department of Public Health Dentistry celebrates the World ‘Anti-Tobacco day’ and ‘Anti-AIDS day’ spreading awareness about the numerous ill-effects of Tobacco and AIDS respectively.
- Department of Periodontology celebrates the ‘Oral Hygiene Day’ spreading awareness among the community about maintenance of good oral hygiene among all age groups.
Department of Paediatric and Preventive Dentistry celebrates the ‘Children’s Day’ with fervour and pomp.

The college has adopted two schools. It takes care of complete oral health of the students by conducting regular oral health examinations, education and treatment.

The college has one satellite centre in rural area where the comprehensive oral treatment is provided to the rural community free of cost.

The Department of Public Health Dentistry regularly conducts oral health camps (treatment & education) in rural and backward areas of Moradabad district and provides oral health services to the community. (Annexure No. 14)

Institute follows principles of code of ethics during patient treatment as well as in research activities.

The impact of these extension activities is clearly visible among the students of this institute since these students have got maximum exposure in personally handling and treating the patients in real life situations. The humbleness exhibited in various social outreach programmes has paid a good dividend and lots of patients are observed to subject themselves willingly and voluntarily to the dental treatment. There is also an increase in the awareness regarding oral health among the community at large in the nearby areas.

3.6.2 How does the institution promote university-neighbour-hood network and student engagement, contributing to the holistic development of students and sustained community development?

The institute caters to oral health needs of the nearby villages, schools, NGOs, old age homes etc. The students and faculty regularly participate in Free Medical Camps, Dental Check-Up Camps, Dental Treatment Camps, AIDS Awareness Programs, No Tobacco Programs, School Oral Health Programs etc. Interns are also posted in satellite centres on rotation basis. These activities not only contribute to the community development but also cater positively to the academic needs of the students.

3.6.3 How does the college promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International programs?

The college promotes the participation of the students and the faculty in extension activities, like, Dental Treatment Camps, Dental Check-Up Camps And Awareness Program. The college students as well as faculty have participated in the National Polio Eradication Program of Moradabad district.
3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the college to ensure social justice and empower the underprivileged and the most vulnerable sections of society?
Yes, the college undertakes extension work for the underprivileged and disadvantaged communities. The following are the extension services for underprivileged sections:
- Oral Health Camps (treatment and educational) are regularly organized.
- Dental Camps are especially organized for the prisoners of Moradabad district jail.
- Satellite Centre provides oral health services to the rural population.
- Oral Health Camps are organized for rural population and school going children.
- In a few camps held on special occasions medicines are provided free of cost.
The lists of such activities are maintained in the Department of Public Health Dentistry.

3.6.5 Does the college have a mechanism to track the students’ involvement in various social movements/activities that promote citizenship roles?
Yes, the participation of the students in any extension activity (camps, educational talk, preventive talks, treatment camps, NGOs etc.) is through proper channel by information to Principal, concerned department and the college security. The list of participants in such activities is also been maintained in the Department of Public Health Dentistry.

3.6.6 How does the college ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the college that have encouraged community participation in its activities.
The institute promotes college-neighbourhood network by taking initiative directly and through Rotary, Lions Club, Resident Welfare Association, responding to the local oral health needs and demands of the community balancing the network by giving due weightage to each of the activity by providing the resources in the form of expert manpower, infrastructure support, treatment & medicine at subsidized rates etc. The main aim of the Department of Public Health Dentistry is to cater for community oral health care needs. The college also communicates with rural areas by the Mobile Dental Van which is fully equipped with all the dental facilities. Hence, this enhances extension activities of the college as well as contributes to the development of the community at large.
3.6.7 Give details of awards received by the college for extension activities and/contributions to social/community development during the last four years.

- The Rotary Club, Moradabad has acknowledged our institute for “Excellence in Social Health Services” in the year 2012 and 2014.
- Letter of appreciation for oral health services from “Nari Avam Bal Utthan Samiti”

3.6.8 What intervention strategies have been adopted by the college to promote the overall development of students from rural/tribal backgrounds?

- The qualifying criteria for entrance to the BDS Degree are laid down by the State and the Statutory Body, under the order of the Hon’ble Supreme Court of India. Hence, intervention strategies have no role in the admission processes.
- Certain internal initiatives have been taken by the Institute for overall development of students from rural/tribal background. Institute assists these students in obtaining bank loans on as required basis. Certain consideration is shown to these students in financial matters.
- Extension activities cover schools and villages in rural areas, providing oral health care at free/concessional rates, thus contributing towards their awareness and improvement of their oral health status.

3.6.9 What initiatives have been taken by the college to promote social-justice and good citizenship amongst its students and staff? How have such initiatives reached out to the community?

Following are the initiatives taken by the college to promote social-justice and good citizenship amongst its students and faculty:

- Institute frequently emphasizes the principles of code of ethics in patient treatment as well as in research activities.
- All the patients (rich or poor) are treated without any discrimination based on caste, creed, gender, culture or socio-economic status.
- Patients referred from various camps are treated free of cost for majority of the dental treatments.
- All the national festivals are celebrated in the campus with maximum fervour, joy, respect and grandeur.

These approaches give a positive orientation and feeling to the students and faculty of the institute regarding the significance of promoting social justice and good citizenship.
3.6.10 How does the college align itself with the annual themes/programs of WHO/ICMR?
The colleges organizes various programmes in line with the themes of WHO/ICMR in the forms of Rallies and Workshops such as the World No Tobacco Day, AIDS day etc. Refer SSR II, Question No. 47 & 48.

3.6.11 What is the role of the college in the following extension activities? Community outreach health programs for prevention, detection, screening, management of diseases and rehabilitation by cost effective interventions.
The Institute provides strategic planning and manpower including specialists for prevention, detection, screening, management of diseases and rehabilitation. In addition the institute also provides logistic support like free transport for the dental team as well as patients. In order to achieve cost-effective intervention the institute has Mobile Dental Unit to provide free treatment to the underprivileged patients in a rural setup. Community outreach health programs also include numerous lectures and health talks on prevention of dental diseases and other health ailments like effects of periodontal diseases on the heart diseases, diabetes and low weight pre-mature child birth cases.

- **Awareness creation regarding potable water supply, sanitation and nutrition.**
  Health Talks on sanitation and nutrition are regularly conducted for patients during camps at villages and Schools.

- **Awareness creation regarding water-borne and air-borne communicable diseases.**
  Health talks on water-borne and air-borne communicable diseases are regularly conducted for patients in village and schools camps throughout the year. Special lectures are also organized by the institute with regard to current epidemic/pandemic communicable diseases. Curriculum also includes topic on communicable diseases.

- **Awareness creation regarding non-communicable diseases - cardiovascular diseases, diabetes, cancer, mental health, accident and trauma, etc.**
  The Institute promotes lectures, workshops, symposium etc. to increase awareness amongst its faculty, students and patients regarding non-communicable diseases, cardiovascular diseases, diabetes, cancer, mental health, accident and trauma, etc. Hands on training is provided to the entire teaching and non-teaching faculty on the subject of basic life support and emergency medicine. Research projects are given to the PG students to
identify the association between non-communicable diseases and oral health.

- **Awareness creation regarding the role of healthy life styles and physical exercise for promotion of health and prevention of diseases.**
  The institute creates awareness among its students and faculty about the role of healthy life. Many initiatives have been taken by the institute:
  - Creation of Basket Ball Court
  - Creation of Badminton Court
  - Providing a suitable Cricket Ground in campus
  Students are also informed about the deleterious effects of Tobacco and Alcohol. The institute has incorporated sports activity in annual program and encourages every student to participate. The campus has a well equipped gymnasium for all stake holders. The institute also organizes Art of Living classes for its students and faculty. Mess Committee takes care of balanced, nutritious and healthy diet for all. Special case has been taken by the Institute to make college campus green, eco-friendly, environmentally clean and hygienic as well as tobacco and alcohol free.

- **Awareness creation regarding AYUSH Systems of medicines in general and / or any system of medicine in particular.**
  Not Applicable

- **Complementary and alternative medicine.**
  The Institute promotes research in alternative medicine for prevention of dental diseases.

- **Pharmaco economic evaluation in drug utilization.**
  Not Applicable

- **Participation in national programs like Family Welfare, Mother and Child Welfare, Population Control, Immunization, HIVAIDS, Blindness control, Malaria, Tuberculosis, School Health, anti tobacco campaigns, oral health care, etc.**
  The institute provides support for the National Polio Eradication Program. The Institute also organizes various programmes in the form of symposiums, rallies and workshops like World No Tobacco Day etc. Refer 3.6.6, 3.6.9 & 3.6.11.
Promotion of mental health and prevention of substance abuse
Services of counsellor/psychologist are made available for the students and the faculty by the institute.

Adoption of population in the geographical area for total health care.
The institute has shortlisted a few villages and it is in the process of adopting these villages for their overall development including their development in oral health services.

Research or extension work to reach out to marginalized populations.
The Institute has shown keen interest in the development of the patients belonging to the marginalized population.

3.6.12 Do the faculty members participate in community health awareness programs? If yes, give details.
Yes, the faculty members of various departments participate in Community Health Awareness Programs organized by the Institute and Department of Public Health Dentistry. Refer 3.6.6, 3.6.9 & 3.6.11

3.6.13 How does the college align itself and participate in National program for prevention and control of diseases?
Within our capacity the faculty and students participate in various National programs for prevention and control of diseases. Refer SSR II, Question No. 47 & 48.

3.7 COLLABORATIONS

3.7.1 How has the institution’s collaboration with other agencies impacted the visibility, identity and diversity of campus activities?
To what extent has the institution benefitted academically and financially because of collaborations?
The Institute has collaborations with following mentioned agencies:

Collaborations with other Institute /University
- Dr. Vrirmani’s Dental Laboratory, Rohini
  Department of Physical and Applied Sciences, Jammu University, Jammu
- Moradabad Institute of Technology, Moradabad
- Research Testing & Calibration Laboratory, Moradabad.
- ITS Engineering College, Greater Noida
- Birbal Sahani Institute, Lucknow
- Vibha Path Lab, Moradabad
- IIT, Roorkee
Birbal Sahani Institute Of Paleobotany, Lucknow  
Pantnagar University, Uttranchal  

Collaborations with Industries  
- Himalaya Drug Company  
- Amar Ujala Publications Ltd.  
- C L Gupta Exports Ltd., Moradabad  

Collaborations with villages/NGOs/schools etc.  
- Schools of Moradabad City.  
- Schools of Chandausi City.  
- Rotary club, Moradabad  
- Nari Evam Bal Uthan Samiti, Moradabad.  
- Moradabad Bangali Cultural Educational Society.  
- New Women’s Welfare society, Moradabad  

Collaborations with the above mentioned agencies have enhanced the knowledge, learning abilities and clinical skills of the students. Students get to see various kinds of patients with different clinical findings, diagnosis and treatment. With different collaborations students and faculty get to know about recent advances in the field of dentistry. It is a symbiotic relationship which not only benefits the institute but also different agencies. These collaborations have contributed positively to undertake various research projects in diverse areas of the dentistry and had also improved and enhanced academic and research experience.

3.7.2 Mention specific examples of how these linkages promote  

- **Curriculum development**  
  Through these linkages, faculty and students are exposed to various programs and teaching-learning methodology of various institutes/industries. They can recommend the same to the Management/College Council/Academic Committee etc. and based on merit, their recommendations can be inculcated into the curriculum enrichment/development.

- **Internship**  
  Interns are posted to all the departments on rotational basis. Especially in Department of Public Health Dentistry they are exposed to cater different oral health community needs i.e. villages, schools, old age homes etc. They are also encouraged to participate or attend various CDE/workshops/students conferences etc.

- **On-the-job training**  
  During their internship/clinical postings, the senior students (3rd/4th Year) are given training on professional skill development
as well as building up of confidence to undertake procedures independently. Such an exposure helps them to subsequently undertake challenges independently later as they compete regionally or globally to establish themselves.

- **Faculty exchange and development**
  Upgradation of knowledge, clinical skills and teaching methodology.

- **Research**
  Linkage has helped in generating research attitude among its faculty and students. Faculty and students can undertake various research projects which lead in generating new knowledge and publications in various peer reviewed indexed journals.

- **Publication**
  Collaborations/linkages have yielded in quality research which in turn have led to publications in various peer reviewed indexed journals of National/International repute with relatively high impact factor.

- **Consultancy**
  This has lead to an increase in awareness about the quality treatment provided by the specialist at free/affordable rates by the institute. An increase in patient turnover/OPD of the institute is also observed.

- **Extension**
  Institute provides free dental care for the patients. These linkages have increased the patient’s turnover, thus providing ample of clinical material for students to learn and providing oral care at free/affordable rates.

- **Student placement**
  Not Applicable

- **Any other (specify)**

3.7.3 **Has the institution signed MoUs or filed patents with institutions of national/ international importance/other universities/industries/ corporate houses etc.? If yes, how have they enhanced the research and development activities of the institution?**

The Institute has some linkages/collaborations with other institutes where in the research facilities of these institutes are used by our students and faculty. (Annexure No. 9)
3.7.4 Have the institution-industry interactions resulted in the establishment /creation of highly specialized laboratories / facilities?

The institute has collaboration with other institute/industries, though such linkages are informal. Various industries i.e. 3M, Colgate, Winmedicare, Himalaya etc. take lectures about their recent/newly launched drugs, products and materials. They can also visit departments of their concern and meet faculty members, only after permission from the Principal. Sometime, they also provide sample drug/material to the faculty and students. The institution is in process of formulating policies for such interactions and for establishment of highly specialized laboratories.

3.7.5 Give details of the collaborative activities of the institution with the following:

- **Local bodies/ community**
  IDA Moradabad and Village Panchayat in organizing and conducting oral health camps.

- **State government / Central government / NGOs**
  NGOs like Naari evam Bal Utthaan Samiti, Rotary club etc. in organizing and conducting oral health camps.

- **National bodies**
  IDA and National Associations (speciality associations) in organizing various CDE, workshops etc.

- **International agencies**
  Nil

- **Health Care Industry** – Biomedical, Pharmaceutical, Herbal, Clinical

- **Research Organization (CRO)**
  Research works have been conducted in collaboration with pharmaceutical companies. E.g. Himalaya Drug Company etc.

- **Service sector**

- **Any other (specify)**

3.7.6 Give details of the activities of the institution under public-private partnership.

The institute has conducts various activities and initiatives as part of public-private partnership:
 Conduct camps in Central Jail
 Conduct camps with State Government (Health Mela)
 Cancer screening Program
 Anti-tobacco drives

Any other information regarding Research, Consultancy and Extension which the institution would like to include

******************************************************************************
CRITERION IV
CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 PHYSICAL FACILITIES

4.1.1 How does the institution plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

The KDCRC is situated on State highway 49, connecting to Haridwar, it has an area of 9.95 acres with built up area of 29601.08 sq. mtr. The KDCRC campus is a very environment friendly, pleasant and open type of campus which gives an overall good feeling of belongingness. Being situated on the highway, it is well connected to residential areas and population of the same city or nearby towns and villages and is easily approachable also. The locals that visit the college comprise of urban/semi urban population from the Moradabad town, but are predominantly from rural background from the nearby towns/villages. The details of areas of various complexes of KDCRC are given below:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of building</th>
<th>Area (Sq. ft.)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Dental college</td>
<td>127444.60</td>
</tr>
<tr>
<td>2</td>
<td>General hospital</td>
<td>27801.21</td>
</tr>
<tr>
<td>3</td>
<td>Student Hostel</td>
<td>82980.68</td>
</tr>
<tr>
<td>4</td>
<td>Staff quarters</td>
<td>74788.64</td>
</tr>
<tr>
<td>5</td>
<td>Cafeteria</td>
<td>2010</td>
</tr>
<tr>
<td>6</td>
<td>Gymnasiuim and indoor games</td>
<td>1350</td>
</tr>
<tr>
<td>7</td>
<td>Play Ground</td>
<td>63500</td>
</tr>
</tbody>
</table>

(Annexure No. 15.)

(a) Academic Activities

- There are four lecture theatres, which are spacious, properly ventilated, well lit and have adequate seating capacity. Each lecture theatre can accommodate more than 100 students at a time; these lecture theatres are equipped with all the modern audio-visual and LCD facilities.
- The KDCRC central library functions from 10:00 AM to 10:00 PM every day. The library has a collection of about 4000 books of 1200 titles. The library offers sufficient seating facilities for UG and PG students and for the teaching faculty separately. Library is also equipped with photocopiers, scanner and computers with internet facility.
- Separate examination halls are available in the institution for smooth conduct of all examinations.
- College has museum facilities with sufficient number of specimens.
(b) Co-curricular Activities
- For co-curricular activities of the students, the institution has an auditorium with sufficient seating capacity.
- There is a conference hall with a seating capacity of 60 people for interactive sessions with the faculty.

(c) Extra-curricular Activities and Sports
- Playground for outdoor sports and games, facility for indoor games like Carrom, Chess, Table Tennis etc. are available.
- Gymnasium facility is also available for students and faculties.

The Management, the Administrative staff and the Institutional Committees regularly assess the facilities provided versus their utilisation during meetings and discussions. Requirements are analysed and then progressed based on priority/urgency.

4.1.2 Does the institution have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment. If yes, mention the few recent initiatives.
Yes. Management of the institute ensures enhancement of infrastructures and academic facilities from time to time in order to promote sustained quality teaching. Separate budgets are allocated for such activities. Few recent initiatives are as follows:
- Inauguration of a fully equipped Dental Implant Centre.
- Capacity enhancement of PG boys’ hostel.
- Providing the Department of Pedodontics and Preventive Dentistry with a Conscious Sedation Unit.
- Renovation and modernization of gymnasium.

4.1.3 Does the institution provide facilities like office room, common room, and separate restrooms for women students and staff?
Yes, the institute provides separate cabins for HODs, Professors, Readers, Senior Lecturers etc. PG students are also provided with work stations. Common room facility for girls and boys is provided within the institute.

4.1.4 How does the institution ensure that the infrastructure facilities are barrier free for providing easy access to college & hospital for the differently-abled persons?
Lifts and ramp facility are available for the differently-abled students/patients. Wheel chairs are also provided at strategic locations within the institute and hospital. All areas are well marked with suitable direction signs for fast and smooth movement of persons.
4.1.5 What special facilities are available on campus to promote students interest in sports and cultural events?
- Play grounds for sports, facility for indoor games like Carrom, Chess, Table Tennis and outdoor games like Cricket, Basketball, Volleyball etc.
- A large hall is available in the campus which can be designed as a functional auditorium for cultural events.
- College annually organizes cultural fest known as ‘‘IMPRESSION’’ and sports week. Along with this, annual sports tournaments are also organized.
- Modern gymnasium facility along with an instructor is also provided within the campus.

4.1.6 What measures does the institution take to ensure campus safety and security?
The college has extensive security machinery for monitoring security round-the-clock.
- 24-hour surveillance is done through a CCTV camera positioned at main entrance, within the campus premises and also within the institute.
- The institute has planned to increase the number of CCTV cameras in the campus for safety and monitoring.
- Security guards are hired from reputed security agencies.
- Regular patrolling of security personnel is done during day and night to ensure safety of campus.
- Regular monitoring of the personnel or vehicles is done at main gate through entry/exit movement register.
- Entry to outsiders after college hours is limited (e.g., only visiting family members of students are allowed, after prior approval).
- Out pass is mandatory for students going out of the college premises.
- Students are directed to return on-campus before 8.00 pm on specific outing days.
- Students are restricted from using or keeping personal vehicles within the college campus.
- Resident wardens are appointed in both the boys and girls hostels to ensure discipline and safety.
- The Head of Security organizes regular meetings and security briefings, usually once every month.
- Fire safety measures are installed both in college, hostel and staff quarters. A fire drill is also organised every year to highlight fire safety.
- The Grievance cell, Student Welfare Committee, Anti-ragging and Disciplinary Committee etc. ensure safety of the students or prevent any type of misconduct within the college campus.
4.1.7 Facility of animal house
- Is animal house maintained as per CPCSEA guidelines?
- Whether records of animal house are maintained for learning and research activities?
- Does the animal house have approval for breeding and selling experimental animals as per CPCSEA guidelines?
Not Available.

4.1.8 Provide the following details on the use of laboratories/museum as learning sources:
- **Laboratories**
  Following is the list of departments where laboratory facility is available:

<table>
<thead>
<tr>
<th>Departments</th>
<th>Labs</th>
<th>Seating capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservative Dentistry &amp; Endodontics</td>
<td>01</td>
<td>50-60</td>
</tr>
<tr>
<td>Prosthodontics and Crown &amp; Bridge</td>
<td>01</td>
<td>100</td>
</tr>
<tr>
<td>Oral Pathology &amp; Microbiology</td>
<td>01</td>
<td>50</td>
</tr>
<tr>
<td>Basic Sciences (Human Anatomy)</td>
<td>01</td>
<td>40-50</td>
</tr>
<tr>
<td>Basic Sciences (Biochemistry)</td>
<td>01</td>
<td>50</td>
</tr>
<tr>
<td>Basic Sciences (General Pathology)</td>
<td>01</td>
<td>50</td>
</tr>
<tr>
<td>Basic Sciences (Pharmacology)</td>
<td>01</td>
<td>50</td>
</tr>
<tr>
<td>Basic Sciences (Physiology)</td>
<td>01</td>
<td>50</td>
</tr>
</tbody>
</table>

- **Museums**
  Following is the list of departments where museum is available:

<table>
<thead>
<tr>
<th>Department</th>
<th>Number of museums</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Pathology &amp; Microbiology</td>
<td>01</td>
<td>2\textsuperscript{nd} Floor, OPD Block</td>
</tr>
<tr>
<td>General Pathology</td>
<td>01</td>
<td>1\textsuperscript{st} Floor, OPD Block</td>
</tr>
<tr>
<td>Public Health Dentistry</td>
<td>01</td>
<td>Basement, OPD Block</td>
</tr>
</tbody>
</table>

- **Maintenance and up-gradation**
  Yes, periodic maintenance and up-gradation of the infrastructure and specimens are carried out.

- **Descriptive catalogues in museums**
  Descriptive catalogues of various models/specimens (dry/wet) are available at individual museums.
Usage of the above by the UG/PG students
Yes, the museums are used by both UG and PG students, as well as for patient counselling and education.

4.1.9 Dentistry

Dental chairs in clinics – speciality wise
Total dental chairs
Total no of 391 dental chairs speciality-wise are installed in the institute:

<table>
<thead>
<tr>
<th>Departments</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservative Dentistry &amp; Endodontics</td>
<td>64</td>
</tr>
<tr>
<td>Oral and Maxillofacial Surgery</td>
<td>38</td>
</tr>
<tr>
<td>Oral Medicine and Radiology</td>
<td>33</td>
</tr>
<tr>
<td>Oral Pathology &amp; Microbiology</td>
<td>03</td>
</tr>
<tr>
<td>Orthodontics &amp; Dentofacial Orthopaedics</td>
<td>40</td>
</tr>
<tr>
<td>Pedodontics and Preventive Dentistry</td>
<td>42</td>
</tr>
<tr>
<td>Periodontology</td>
<td>75</td>
</tr>
<tr>
<td>Prosthodontics and Crown &amp; Bridge</td>
<td>60</td>
</tr>
<tr>
<td>Public Health Dentistry</td>
<td>36</td>
</tr>
<tr>
<td>Total</td>
<td>391</td>
</tr>
</tbody>
</table>

Schedule of chair side teaching in clinics – speciality wise
Chair side teaching in clinics in various specialities for UG students

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Chair Side teaching(Clinical Teaching)</th>
<th>BDS 3rd Year</th>
<th>BDS 4th Year</th>
<th>Intern</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BDS</td>
<td>2.30 hrs/day</td>
<td>4 hrs/day</td>
<td>6 hrs/day</td>
</tr>
</tbody>
</table>

Chair side teaching in clinics in various specialities for postgraduate students:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Departments</th>
<th>Chair Side teaching (Clinical Teaching)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>MDS I YEAR</td>
</tr>
<tr>
<td>1</td>
<td>Conservative Dentistry &amp; Endodontics</td>
<td>3-4hrs/day</td>
</tr>
<tr>
<td>2</td>
<td>Oral and Maxillofacial Surgery</td>
<td>3-4hrs/day</td>
</tr>
<tr>
<td>3</td>
<td>Oral Medicine and Radiology</td>
<td>3-4hrs/day</td>
</tr>
<tr>
<td>4</td>
<td>Oral Pathology &amp;</td>
<td>3-4hrs/day</td>
</tr>
</tbody>
</table>
Microbiology | hrs/day | hrs/day
--- | --- | ---
5 Orthodontics & Dentofacial Orthopaedics | 3-4hrs/day | 5-6 hrs/day | 5-6 hrs/day
6 Pedodontics and Preventive Dentistry | 3-4hrs/day | 5-6 hrs/day | 5-6 hrs/day
7 Periodontology | 3-4hrs/day | 5-6 hrs/day | 5-6 hrs/day
8 Prosthodontics and Crown & Bridge | 3-4hrs/day | 5-6 hrs/day | 5-6 hrs/day
9 Public Health Dentistry | 3-4hrs/day | 5-6 hrs/day | 5-6 hrs/day

- Number of procedures in clinics per month and year
  Annexure No. 7.

- Mobile Dental Care Unit
  The institute has one Mobile Dental Clinic which is equipped with the following equipments:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Equipments</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dental chair</td>
<td>01</td>
</tr>
<tr>
<td>2</td>
<td>Compressor</td>
<td>01</td>
</tr>
<tr>
<td>3</td>
<td>Scalar units</td>
<td>01</td>
</tr>
<tr>
<td>4</td>
<td>Composite unit</td>
<td>01</td>
</tr>
<tr>
<td>5</td>
<td>Instrument cabinet</td>
<td>01</td>
</tr>
<tr>
<td>6</td>
<td>Hot water sterilizer</td>
<td>01</td>
</tr>
<tr>
<td>7</td>
<td>Public address system – including a speaker and amplifier</td>
<td>01</td>
</tr>
<tr>
<td>8</td>
<td>Generator</td>
<td>01</td>
</tr>
</tbody>
</table>

The mobile dental clinic is equipped with the following Instruments:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Equipments</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Extraction forcep set</td>
<td>02</td>
</tr>
<tr>
<td>2</td>
<td>Periodontal scalar set</td>
<td>02</td>
</tr>
<tr>
<td>3</td>
<td>Airrotor</td>
<td>02</td>
</tr>
<tr>
<td>4</td>
<td>Diagnostic instruments</td>
<td>50 sets</td>
</tr>
<tr>
<td>5</td>
<td>Filling Instruments</td>
<td>10 sets</td>
</tr>
<tr>
<td>6</td>
<td>Instrument bin</td>
<td>03</td>
</tr>
</tbody>
</table>
The college has well equipped mobile dental care unit for organizing dental treatment camps in rural and urban areas in and around Moradabad.

Mobile dental van is also used for dental education programs in schools.

Facilities for dental and maxillofacial procedures

- **Oral & Maxillofacial Surgery**
  - Extraction
  - Impaction
  - Fracture\Trauma
  - Cleft lip palate
  - Temporomandibular Joint Disorders
  - Orthognathic surgery
  - Onco surgery

- **Periodontology**
  - Scaling
  - Flap surgery
  - Bone graft surgery
  - Splinting
  - Gingivectomy
  - Implants

- **Orthodontics & Dentofacial Orthopaedics**
  - Fixed orthodontic treatment
  - Removable orthodontic treatment
  - Night guard appliance
  - Myofunctional appliances

- **Prosthodontics and Crown & Bridge**
  - Dentures
  - Crown and bridges
  - Removable partial dentures
  - Implant supported dentures
  - Overdentures
  - Maxillofacial Prosthesis

- **Pedodontics & Preventive Dentistry**
  - Pulpectomy
  - Pulpotomy
  - Extraction
  - Restorations
  - Habit breaking appliances

- **Conservative Dentistry & Endodontics**
• Restorations
• Root canal treatment
• Crowns and bridges
• Apicoectomy

- **Oral Medicine and Radiology**
  • Intra oral peri-apical radiographs
  • OPG and lateral cephalogram
  • Diagnosis
  • Tissue harvesting for biopsy

- **Public Health Dentistry**
  • Pit and fissure sealant
  • Fluoride application
  • Scaling
  • Restoration
  • Root canal treatment
  • Extraction

- **Oral Pathology & Microbiology**
  • Biopsy reporting
  • Exfoliative cytology

- **Dental laboratories – 11**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Department</th>
<th>U.G./P.G.</th>
<th>Laboratories</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Orthodontics &amp; Dentofacial Orthopedics</td>
<td>U.G.</td>
<td>Preclinical, Clinical</td>
</tr>
<tr>
<td></td>
<td></td>
<td>P.G.</td>
<td>Preclinical, Clinical</td>
</tr>
<tr>
<td>2</td>
<td>Prosthodontics and Crown &amp; Bridge</td>
<td>Preclinical</td>
<td>Plaster lab, dewaxing and curing, Lathe lab room, Phantom head lab</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clinical U.G.</td>
<td>Dry Lab, Wet lab</td>
</tr>
<tr>
<td></td>
<td></td>
<td>P. G.</td>
<td>Dry Lab, Wet lab, Casting room, Ceramic room, Phantom head lab, Technician lab</td>
</tr>
<tr>
<td>3</td>
<td>Conservative Dentistry &amp; Endodontics</td>
<td>U.G.</td>
<td>Preclinical, Clinical</td>
</tr>
<tr>
<td></td>
<td></td>
<td>P.G.</td>
<td>Preclinical, Clinical Ceramic lab</td>
</tr>
<tr>
<td>4</td>
<td>Oral Pathology &amp; Microbiology</td>
<td>U.G.</td>
<td>Reporting room, microscope, image analysis, Immunohisto-chemistry lab, Histopathology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>P.G.</td>
<td></td>
</tr>
</tbody>
</table>

Kothiwal Dental College & Research Centre, Moradabad
4.1.10 Pharmacy
* Pharmaceutical science laboratories
* Museum for drug formulations
* Machine room
* Herbarium/crude drug museum
* Balance room
* Chemical store
* Instrumentation facilities
* Pilot plant
* Computer aided laboratories
Not applicable

4.1.11 Yoga and Naturopathy
* Demonstration hall with teaching facility to cater to the needs of the students.
* Diet Service Management Department
* Yoga cum multipurpose hall for meditation and prayer
* Solarium compatible for multimedia presentation
* Mud Storage Unit
* Outdoor Facilities - Walking track with reflexology segment.
* Swimming Pool
* Naturopathy blocks
  The following facilities have been provided to all students, staff and faculty;
  ❖ Community hall for yoga and temple for meditation and prayer
  ❖ Outdoor track and field area in the green campus for walks
  ❖ Gymnasium for physical exercises

4.1.12 Homoeopathy
* Museum and demonstration room (Homoeopathic Pharmacy Laboratory, Pathology Laboratory, Community Medicine, Homoeopathic Material Medica, Organon of Medicine including History of Medicine)
* Repertory with Computer Laboratory and Demonstration Room
Not applicable

4.1.13 Nursing
* Nursing Foundation Laboratory
* Medical Surgical Laboratory
* Community Health Nursing Laboratory
* Maternal and Child Health Laboratory
* Nutrition Laboratory
* Pre clinical Laboratories
* Specimens, Models and Mannequins
Not applicable

4.1.14 Ayurveda
* Herbal Gardens
* Museum Herbarium
* Panchakarma Facility
* Eye Exercises Clinic
* Kshara Sutra and Agni Karma Setup
* Ayurveda Pharmacy
Not applicable. KDCRC does not offer any program (Degree/Diploma/Certificate) in Ayurveda. However, few medicinal plants have been planted within the campus premises for educational use.

4.1.15 Does the institution have the following facilities? If so, indicate its special features, if any.

- Meditation Hall
  Facility of Temple and community Hall within the college premises.

- Naturopathy blocks
  The Institute does not have any naturopathy block

4.1.16 Provide details of sophisticated equipments procured during the last four years.
Details of sophisticated equipments procured by KDCRC during the last four years are as follows:

<table>
<thead>
<tr>
<th>Year of Purchase</th>
<th>Instruments</th>
<th>No.</th>
<th>Total Cost Of Equipment (Rupees)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>Apex Locator</td>
<td>01</td>
<td>60,000</td>
</tr>
<tr>
<td></td>
<td>Articulator Whipmix</td>
<td>02</td>
<td>1,08,570</td>
</tr>
<tr>
<td></td>
<td>Autoclave</td>
<td>01</td>
<td>93,700</td>
</tr>
<tr>
<td></td>
<td>Dental Chair</td>
<td>04</td>
<td>4,60,000</td>
</tr>
<tr>
<td></td>
<td>Electropolisher</td>
<td>01</td>
<td>17,800</td>
</tr>
<tr>
<td></td>
<td>Ultrasound Cleaner</td>
<td>01</td>
<td>22,500</td>
</tr>
<tr>
<td></td>
<td>Microscope (Dental)</td>
<td>01</td>
<td>2,17,500</td>
</tr>
<tr>
<td></td>
<td>Micromotor Heavy Duty</td>
<td>04</td>
<td>1,80,000</td>
</tr>
</tbody>
</table>
### Infrastructure and Learning Resources

#### 2012

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phantom Head</td>
<td>01</td>
<td>1,25,000</td>
</tr>
<tr>
<td>R.V.G.</td>
<td>01</td>
<td>1,31,428</td>
</tr>
<tr>
<td>U.V. Chamber</td>
<td>01</td>
<td>11,500</td>
</tr>
<tr>
<td>Physiodispensor</td>
<td>01</td>
<td>1,65,000</td>
</tr>
<tr>
<td>Endomotor</td>
<td>01</td>
<td>49,000</td>
</tr>
<tr>
<td>Articulator Whipmix</td>
<td>04</td>
<td>2,59,047</td>
</tr>
<tr>
<td>Articulator Hanau</td>
<td>02</td>
<td>1,33,333</td>
</tr>
<tr>
<td>Front Loading Autoclave</td>
<td>03</td>
<td>1,65,000</td>
</tr>
<tr>
<td>Dental Chair Fona</td>
<td>04</td>
<td>3,20,000</td>
</tr>
<tr>
<td>Ultrasonic Cleaner</td>
<td>02</td>
<td>36,000</td>
</tr>
<tr>
<td>Endomotor</td>
<td>01</td>
<td>49,500</td>
</tr>
<tr>
<td>Thermaprep</td>
<td>03</td>
<td>90,110</td>
</tr>
<tr>
<td>Laser Unit</td>
<td>01</td>
<td>3,25,000</td>
</tr>
<tr>
<td>Conscious Sedation Unit</td>
<td>01</td>
<td>3,25,000</td>
</tr>
<tr>
<td>Bleaching Unit</td>
<td>01</td>
<td>35,000</td>
</tr>
</tbody>
</table>

#### 2013

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Articulator Hanau</td>
<td>04</td>
<td>2,66,666</td>
</tr>
<tr>
<td>Articulator Whipmix</td>
<td>01</td>
<td>64,761</td>
</tr>
<tr>
<td>Front Loading Autoclave</td>
<td>01</td>
<td>39,000</td>
</tr>
<tr>
<td>Dental Chair Fona</td>
<td>03</td>
<td>3,38,475</td>
</tr>
<tr>
<td>Dental Chair Pedo</td>
<td>07</td>
<td>5,95,000</td>
</tr>
<tr>
<td>Injectable G.P.</td>
<td>01</td>
<td>60,000</td>
</tr>
<tr>
<td>Ultrasonic Cleaner</td>
<td>03</td>
<td>72,000</td>
</tr>
<tr>
<td>Ultrasonic Scalar (Satelac)</td>
<td>02</td>
<td>46,000</td>
</tr>
<tr>
<td>H.P. Grinder</td>
<td>01</td>
<td>60,000</td>
</tr>
<tr>
<td>Hand Piece Sterilizer</td>
<td>01</td>
<td>18,000</td>
</tr>
<tr>
<td>Moulding Machine</td>
<td>02</td>
<td>32,000</td>
</tr>
<tr>
<td>Pop Dispenser</td>
<td>09</td>
<td>1,78,400</td>
</tr>
<tr>
<td>Phantom Head</td>
<td>02</td>
<td>2,50,000</td>
</tr>
<tr>
<td>R.V.G. Fona</td>
<td>02</td>
<td>3,20,000</td>
</tr>
<tr>
<td>Endomotor</td>
<td>01</td>
<td>36,000</td>
</tr>
<tr>
<td>Hydrosolder</td>
<td>01</td>
<td>1,42,625</td>
</tr>
<tr>
<td>Pressured Local Anesthesia</td>
<td>02</td>
<td>62,400</td>
</tr>
<tr>
<td>X-Ray Machine (Satelac)</td>
<td>01</td>
<td>1,21,500</td>
</tr>
</tbody>
</table>

#### 2014

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burn Out Furness</td>
<td>01</td>
<td>2,20,000</td>
</tr>
<tr>
<td>Vaccume Mixer Renfert</td>
<td>01</td>
<td>75,000</td>
</tr>
<tr>
<td>Injectable G.P.</td>
<td>01</td>
<td>74,000</td>
</tr>
<tr>
<td>Ultrasonic Scalar (Satelac)</td>
<td>05</td>
<td>1,09,000</td>
</tr>
<tr>
<td>Hand Piece Steriliser</td>
<td>02</td>
<td>1,16,000</td>
</tr>
<tr>
<td>Microscope Filter Block</td>
<td>01</td>
<td>48,950</td>
</tr>
<tr>
<td>Piezotome</td>
<td>01</td>
<td>3,40,000</td>
</tr>
</tbody>
</table>
4.2 CLINICAL LEARNING RESOURCES

4.2.1 Teaching Hospital

Year of establishment
- Dental Hospital - 10.01.1999.
- For training the students in General Medicine and General Surgery, the institute has been employing the facilities of Pandit Deen Dayal Upadhyay District Hospital, Moradabad since 1999.

Hospital institution distance
- Dental hospital is within the campus.
- Pandit Deen Dayal Upadhyay District Hospital is 7kms away from the institute.

Whether owned by the college or affiliated to any other institution?
The Dental Hospital is owned by the same institution i.e. Kothiwal Dental College & Research Centre. Pandit Deen Dayal Upadhyay District Hospital is a Government Hospital.

Are the teaching hospitals and laboratories accredited by NABH, NABL or any other national or international accrediting agency?
The institute is certified with ISO 9001:2008.

Number of beds
- 186 Beds in Pandit Deen Dayal Upadhyay District Hospital,
- 10 Beds in Pandit Deen Dayal Upadhyay District Hospital allotted for dental patients.
- In the college premises 2 post-operative ICU beds are allotted for dental surgeries, and 2 more beds will soon be allotted for Neuro and dental surgeries.

Number of specialty services
- Orthodontics & Dentofacial Orthopaedics
- Oral & Maxillofacial Surgery
- Prosthodontics and Crown & Bridge
- Periodontology
- Conservative Dentistry & Endodontics
- Pedodontics & Preventive Dentistry
- Oral Pathology & Microbiology
- Public Health Dentistry
- Oral Medicine and Radiology
- General Medicine
General Surgery

**Number of super-specialty services**
The institution has recently introduced Neuro-surgery unit in 2015.

**Number of beds in ICU / ICCU / PICU / NICU, etc.**
- ICU - Intensive Care Unit - 14
- ICCU - Intensive Critical Care Unit - 10 in Pandit Deen Dayal Upadhyay District Hospital
- Post-Operative ICU in dental college premises - 4

**Number of operation theatres**
- 3 Major OT in Pandit Deen Dayal Upadhyay District Hospital
- 1 Major OT in Dental college premises and 4 Minor OT in various dental departments (Periodontology, Oral and Maxillofacial Surgery, Pedodontics and Preventive Dentistry and Conservative Dentistry and Endodontics)
- The college has introduced Neuro OT in 2015.

**Number of Diagnostic Service Departments**
Two departments offer diagnostic services in a Dental College
- Department of Oral Medicine & Radiology
- Department of Oral Pathology & Microbiology

**Clinical Laboratories**
- Department of Oral Medicine & Radiology provides radiological services.
- Department of Oral Pathology & Microbiology provides pathological, haematological and microbiological services.
- Department of General Pathology provides pathological, haematological and microbiological services.

**Service areas viz. laundry, kitchen, CSSD, Backup power supply, AC plant, Manifold rooms, pharmacy services**
Available

**Blood Bank services**
The institute has planned to start the blood bank service by 2016.

**Ambulance services**
- One well equipped ambulance 24x7 is available
- One Mobile Dental Unit is available.
- Commissioning of one well equipped critical care ambulance by 2015 is under consideration.
Hospital Pharmacy services
Two Pharmacy shops are situated in dental college premises, providing medicines to the patients, students, staff and faculty. The pharmacy service is available 24x7.

Drug poison information service
Not Available

Pharmaco vigilance
Not Available

Mortuary, cold storage facility
Not Available

Does the teaching hospital display the services provided free of cost?
Yes, during specific periods, teaching hospital displays that its services are provided free of cost, and this is also mentioned on the referral cards given to the patients during dental camps.

What is the mechanism for effective redressal of complaints made by patients?
Complaint/suggestion forms are available at the OPD counter. Patient having any kind of complaints/grievance(s) can also directly contact the Principal, whose phone number is displayed at various locations within the hospital. Further, a careful analysis of patient’s feedback/complaints is undertaken and corrective/remedial actions are executed after due consideration.

Give four years statistics of inpatient and outpatient services provided.
Inpatient and outpatient services provided by the dental hospital during last four years:

<table>
<thead>
<tr>
<th>Year</th>
<th>New Patient</th>
<th>Old Patient</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010-2011</td>
<td>38748</td>
<td>55443</td>
<td>94191</td>
</tr>
<tr>
<td>2011-2012</td>
<td>45736</td>
<td>73830</td>
<td>119566</td>
</tr>
<tr>
<td>2012-2013</td>
<td>49994</td>
<td>67010</td>
<td>117004</td>
</tr>
<tr>
<td>2013-2014</td>
<td>49596</td>
<td>73758</td>
<td>123354</td>
</tr>
<tr>
<td>2014-2015</td>
<td>51345</td>
<td>79154</td>
<td>130499</td>
</tr>
</tbody>
</table>

Does the hospital display charges levied for the paid services?
Yes, the institute prominently displays the charges levied for the paid services at the registration counter.

**Are the names of the faculty and their field of specialization displayed prominently in the hospital?**
Yes, the faculty and their field of specializations are displayed prominently in the hospital at key locations for easy access.

**Is pictorial representation of the various areas of the hospital displayed in a manner to be understood by illiterate patients?**
Yes, pictorial representation of each department and laboratories etc. are displayed in general as well in the dental hospital.

**Is there a prominent display of ante-natal, mother and child health care facilities?**
No

**How does the hospital ensure dissemination of factual information regarding rights, responsibilities and the health care costs to patient and the relatives/attendants?**
Dissemination of factual information regarding rights, responsibilities and the health care costs is undertaken through the prominent display of such information at strategic places all around the hospital building in English as well as in the local language.

**How does the hospital ensure that proper informed consent is obtained?**
The hospital follows Ethical guidelines prescribed by the Declaration of Helsinki and ICH-GCP(Good Conduct Protocol). All procedures are conducted only after obtaining written informed consent from the patient. Regular audits are conducted to ensure that consents are obtained from them.

**Does the hospital have well-defined policies for prevention of hospital acquired Infections**
Yes, a comprehensive hospital-wide infection control and surveillance system exists in the hospital. The Institutional Bio-safety and Environment Committee closely monitors this activity. The Committee conducts regular meetings and forwards its recommendations to the Principal.

**Does the hospital have good clinical practice guidelines and standard operating procedures?**
Yes, the Institute follows Good Clinical Practice Guidelines as per ICH-GCP and follows SOPs as per Institutional Committee’s
guidelines. Detailed guidelines are promulgated for all procedures and clinical practices and the institution makes an all out effort in ensuring that these are known and adhered to by all.

**Does the hospital have effective systems for disposal of bio-hazardous waste?**

Yes, the Hospital and Dental institute both have an efficient and effective system for disposal of bio-hazardous waste.

**How does the hospital ensure the safety of the patients, students, doctors and other health care workers especially in emergency department, critical care unit and operation theatres? Are the safety measures displayed in the relevant areas?**

- **Women, children and aged persons** are aided by staff in finding their way easily and earliest. They are also told how to operate lift, wheelchairs in these areas whenever required. They are told about the diagnostic findings and advised on procedures and their implications, a comprehensive hospital-wide infection control and surveillance system exists in the hospital. Critical Care Unit is available and medical doctors are present in the college to handle any medical emergencies.

- **Safety of doctors and other health care workers:** EW CCU minor OT and OT areas are well fumigated and kept thoroughly clean at all times. A proper lighting and ventilation is also provided in these spaces to help doctors and staff attending a patient for longer periods. They are given proper clothing, gloves, masks on as required basis to prevent any kind of infections. A bio-waste management system takes good care of waste disposal. Regular inspections, checks and proper recordkeeping of safety inspections and vaccinations are carried out by concerned authorities.

- **Safety of students:** Students are taught and trained to prevent, recognize, and treat medical/dental emergencies in lectures and dental clinics. They are also taught about Infection control, Bio-safety and the importance personal safety measures (use of gloves, mouth masks, head caps etc.)

  The institution also organizes lectures on Basic Life Support, Infection Control, Bio-safety, Hospital Waste Management, Sterilization & Disinfection for its students, faculty members and support staff.

**How are the Casualty services/Accident and Emergency Services organized and effectively managed?**

- **SOPs** are in place to handle the cases of accident and emergency.
An effective and responsive procedure to deal with emergency cases is in place.
Ambulance service is available 24 x 7.
Adequate priority is accorded to all such cases.

Whether the hospital provides patient friendly help-desks at various places.
Yes, the hospital provides patient friendly help-desks. All the department receptionists are trained to attend the patients and their attendants politely and provide them with all details required.

Does the hospital have medical insurance help desk?
No

What are the other measures taken to make the hospital patient friendly?
- Green lawns near the hospital.
- Neat and clean waiting areas.
- Display of Principal’s mobile number at various places so that any patient can talk directly to the Principal in case of any inconvenience regarding treatment.
- Strict instructions to the doctors, nurses and assistants to behave politely with the patients and their attendants.
- Nominal charges for all treatment procedures.
- Free treatment camps organized.
- Patient attended at the satellite centres are referred to the hospital.
- Signboards at various locations
- Cafeteria providing hygienic food at reasonable rates.
- 24x7 electricity and filtered drinking water.
- 24x7 ambulance facility.
- 24x7 pharmacy with medicine on concessional rates.
- Help desk facility.
- Elevators and wheelchair facility for needy patients

How does the hospital achieve continuous quality improvement inpatient care and safety?
- Monitoring of treatment by faculty and senior teachers.
- Feedback from patients is taken at every opportunity. This feedback is analysed through a well-developed system and then remedial measures best suited to the organization are implemented.
- Display of Principal’s mobile number at various places so that any patient can talk directly to the Principal in case of any inconvenience regarding treatment.
The Institutional Bio-safety and Environment Committee monitors and recommends the practice of infection control. The waste management of the campus is conducted in collaboration with Sembramky Environment Management Pvt. Ltd. Ghaziabad.

New technologies and procedures are continuously being adapted in the treatment of all patients.

Patients’ rights and duties are displayed near the registration counter and in all the departments.

Informed consent is obtained prior to any treatment procedure.

Modern equipment, infrastructures are adopted for best care and comfort of all.

There is a continuous effort to upgrade the knowledge of faculty and non-teaching staff by exposing them to CDEs, seminars, workshops etc.

What are the measures available for collecting feedback information from patients and for remedial actions based on such information?
Feedback forms are available at the reception and in every department. Feedbacks are collected from the patients on a regular basis. Analysis of feedback is done and remedial steps are taken by the Head of Department/Principal to improve/address the concerns of patients. Recommendations, if any, are forwarded to the college Management for implementation.

How does the institution ensure uniformity in treatment administered by the therapists?
Institute appoints highly qualified physicians/surgeons to ensure quality and uniformity in treatment. Therapists are provided with the recommendations and guidelines including SOP’s for various procedures, which they have to follow and they work under the direct supervision of the doctors. Monitoring these procedures is done on regular basis by Head of the departments/Principal.

Does the institution conduct any orientation training program for AYUSH-based para-medical staff?
Not Applicable

4.2.2 What specific features have been included for clinical learning in the outpatient, bedside, community and other clinical teaching sites?
Clinical teaching and learning is integrated into the student’s curriculum, and it starts from BDS 3rd year till their internship. Few of these are:

- Clinical postings in General hospital.
- Clinical postings in Dental Clinics on rotation basis.
- Various education and treatment camps (Villages, schools etc.).
- Assessment by conducting clinical end posting/bed side/chair side examination.

### 4.3 LIBRARY AS A LEARNING RESOURCE

#### 4.3.1 Does the library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have been implemented by the committee to render the library student/user friendly?

Yes, the institute has established a ILLRC (Institutional Library and Learning Resource Committee) under which there is an Advisory Committee (sub-committee). The composition of ILLRC is as follows:

- Chairman: Dr. N. N. Singh
- Co-chairman: Dr. Samarth Kumar Agarwal
- Members: Dr. Nimish Agarwal, Dr. Vaibhav Tandon, Mr. Pravin Kumar Agnihotri (Librarian), Mrs. Shikha Agnihotri (Asst. Librarian), Mr. Sanjeev Kumar Singh (Asst. Librarian)

Few of the significant initiatives by the committee to render the library student/user friendly are formulation and implication of the general rules, regulations, guidelines, day to day functioning, purchase of books/journals, disciplinary matters and grievances from the users, and continuous monitoring of the library functioning process.

#### 4.3.2 Provide details of the following:

| Total area of the library (in Sq. Mts.) | 4790.8 SQ. FT |
| Total seating capacity | 165 |
| **Working hours (on working days, on holidays, before examination, during examination, during vacation)** | Working days- 10.00 am to 10.00 pm  
Holidays - Closed  
Before examination - 10.00 am to 10.00 pm  
During examination - 4.00 pm to 10.00 pm  
During vacation - 10.00 am to 10.00 pm |
| **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)** | Kindly refer Annexure No. 15 |
| **Clear and prominent display of floor plan;** | Adequate and clear signages are displayed in library for easy access |
adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection and for certain important instructions for the users. Floor plan, exists and the fire alarm signage is also displayed on each floor. Signages for differently-abled persons are also displayed.

| List of library staff with their qualifications | Mr. Pravin Kumar Agnihotri (Librarian) - M. Lib. I. Sc., M. Phil  

4.3.3 Give details of the library holdings:

| **Print (books, back volumes, theses, journals)** |  
Books and text books - 3823  
Reference books - 411  
Dissertations - 192  
Journal titles – 29 |
| **Average number of books added during the last three years** |  
Year 2011 - 37 books  
Year 2012 - Nil  
Year 2013 - 14 books |
| **Non Print (Microfiche, AV)** |  
CDs/DVDs – 126 |
| **Electronic (e-books, e-journals)** |  
Online Journals - 130  
e- Books - Nil  
The college has subscribed for EBSCOhost online subscription for journals |
| **Special collections (e.g. text books, reference books, standards, patents)** |  
Reference books - 411  
Theses- 192  
Competitive examination books - 48 |
| **Book bank** |  
700 books |
| **Question bank** | Yes, question bank of previous exam papers (UGs and PGs) are available in the library. |

4.3.4 To what extent is ICT deployed in the library? Give details with regard to

<p>| Library automation | Being implemented |
| <strong>Total number of computers for general access</strong> | 10 |
| <strong>Total numbers of printers for general access</strong> | There are 2 printers installed in library |</p>
<table>
<thead>
<tr>
<th><strong>Internet band width speed</strong></th>
<th>College is using Airtel broadband and has subscribed for 2mbps speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>V 2mbps V 10 mbps V 1 GB-</td>
<td></td>
</tr>
<tr>
<td><strong>Institutional Repository</strong></td>
<td>Includes copies of all dissertations, library dissertation and audiovisual aids (class lecture notes, PowerPoint presentations, etc.) which is accessible in central library</td>
</tr>
<tr>
<td><strong>Content management system for e-learning</strong></td>
<td>Includes material prepared/developed by the college or faculty i.e. lectures/case presentations, which is accessible to students in central library</td>
</tr>
<tr>
<td><strong>Participation in resource sharing networks/consortia (like INFLIBNET)</strong></td>
<td>Being implemented</td>
</tr>
</tbody>
</table>

4.3.5 **Give details of specialized services provided by the library with regard to**

| **Manuscripts** | Library preserves the manuscripts prepared by students as Theses and Library dissertations |
| **Reference** | Users are helped by reception to get references |
| **Reprography/scanning** | Photocopy and scanning facility are available in the library |
| **Inter-library Loan Service** | Not available |
| **Information Deployment and Notification** | Available. Information regarding Deployment and Notification are displayed on Library Notice Board |
| **OPACs** | Not available |
| **Internet Access** | Free access is available for internet, Wi-Fi service is also available in the campus |
| **Downloads** | Yes, download facility is available during the Library hours |
| **Printouts** | Yes, provided |
| **Reading list/ Bibliography compilation** | Yes, available |
| **In-house/remote access to e-resources** | In-house access services are provided through computers deployed in central library. The college campus is Wi-Fi enabled, |
students can access e-resources through college id and password

User Orientation
Yes, performed for newly admitted I year BDS and MDS students, as well for newly appointed faculty members so that they can be orientated to the use of the library resources and services

Assistance in searching Databases
Assistance is provided by the library staff, whenever required

INFLIBNET/HELINET
The college has subscribed for EBSCOhost online research database

4.3.6 Provide details of the annual library budget and the amount spent for purchasing new books and journals.

<table>
<thead>
<tr>
<th>Year</th>
<th>Budget Sanctioned (in Rs)</th>
<th>Textbooks and other books</th>
<th>Journals/Periodicals</th>
<th>Any others/online Subscription</th>
<th>Actual Expenditure (in Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010-2011</td>
<td>-</td>
<td>7000</td>
<td>13,28,866</td>
<td>Nil</td>
<td>13,35,866</td>
</tr>
<tr>
<td>2011-2012</td>
<td>-</td>
<td>30,00</td>
<td>1,000</td>
<td>Nil</td>
<td>31,000</td>
</tr>
<tr>
<td>2012-2013</td>
<td>-</td>
<td>Nil</td>
<td>11,43,563</td>
<td>Nil</td>
<td>11,43,563</td>
</tr>
<tr>
<td>2013-2014</td>
<td>-</td>
<td>19,492</td>
<td>14,31,693</td>
<td>4,17,582-EBSCO</td>
<td>18,68,767</td>
</tr>
</tbody>
</table>

4.3.7 What are the strategies used by the library to collect feedback from its users? How is the feedback analyzed and used for the improvement of the library services?
The ILLRC regularly obtains feedback from the students/faculty on the services offered by the library which includes availability and behaviour of library staff, availability of books/journals/e-resource material, ambience, work hours etc. These feedback forms are kept at the library reception. These feedbacks are then analyzed by ILLRC, discussed with Principal and forwarded to the Management for approval.

4.3.8 List the efforts made towards the infrastructural development of the library in the last four years.
Efforts made towards the infrastructural development of the library in last four years are as follows:
- ICT cell
- E-learning resources
Criterion IV : Infrastructure and Learning Resources

- Tables and chairs
- Printing, scanning facility
- Wi-Fi facility
- Notice boards
- Racks, stands, etc

4.4 IT INFRASTRUCTURE

4.4.1 Does the institution have a comprehensive IT policy with regard to:

<table>
<thead>
<tr>
<th>IT Service Management</th>
<th>A2Z Multiservice IT Solutions Pvt Ltd of Bareilly is responsible for the maintenance of the IT infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Security</td>
<td>Wi-Fi in the campus is password protected which can be accessed by unique username and password</td>
</tr>
<tr>
<td>Network Security</td>
<td>Quick-Heal Total security – 15 Software (Anti-virus),</td>
</tr>
<tr>
<td>Risk Management</td>
<td>Back-up</td>
</tr>
<tr>
<td>Software Asset Management</td>
<td>Mr. Arif of A2Z Multiservice IT Solutions Pvt. Ltd of Bareilly is responsible for the Software Asset Management</td>
</tr>
<tr>
<td>Green Computing</td>
<td>Most of the Cathode ray tube monitors has been replaced with LED monitors. Automatically turn off the computer monitor display after 10 minutes of idle usage. CPU and all peripherals are shutdown during periods of inactivity. Refilling of printer cartridges (rather than buying new ones) Exchange of old battery with new battery</td>
</tr>
</tbody>
</table>

4.4.2 How does the institution maintain and update the following services?

<table>
<thead>
<tr>
<th>Hospital Management Information System (HMIS)</th>
<th>Some of the softwares being used for managing hospital have been procured from the A2Z Multiservice IT Solutions Pvt Ltd, Bareilly.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic Medical Records System (EMR)</td>
<td>EMR system is in process of implementation.</td>
</tr>
<tr>
<td>Digital diagnostic and imaging systems including</td>
<td>The institute has Digital Radiograph like RVG, Digital OPG. Image analyzer for morphometric analysis is also installed and</td>
</tr>
</tbody>
</table>

Kothiwal Dental College & Research Centre, Moradabad
4.4.3 Give details of the institution’s computing facilities i.e., hardware and software.

| Number of systems with individual configurations | 40 computer systems with configurations ranging from Celeron 1.70 GHZ to Pentium 4 CPU 2.5 GHZ |
| Computer-student ratio | 1:20 |
| Dedicated computing facilities | There are computers with internet, printing, scanning facility being provided in each and every department. |
| LAN facility | Available, Speed 100mbps |
| Wi-Fi facility | Available |
| Proprietary software | Dental OPD software, Dental store software, Hospital software, Hospital store software, Salary software |
| Number of nodes/computers with internet facility | 30 Nodes of Wi-Fi and LAN connection. |
| Any other (specify) | ICT cell in library |

4.4.4 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

Some of the plans and strategies for deploying and upgrading IT infrastructure and associated facilities are indicated below:

- Replacing all the Cathode Ray Tube monitors with LCD
- Wi-Fi enabled campus and hospital
- Enhancing the capacity of the Server
- Augmenting IT infrastructure like computers, scanners, printers and modems
- Implementing e-governance techniques
- Increasing internet speed
- Moving towards paperless work and documentation.

4.4.5 Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching-learning and research.
All the departments are provided with personal computers with internet connection for quality Teaching-Learning process as well as research and they can access online journals within the college premises. The computers with internet facility in the library are also available to access online learning resources. Plans to provide lectures/presentations online are in the pipeline. Further, the institution has subscribed to numerous full text electronic journals which are made freely available to all faculty and students (EBSCOhost).

4.4.6 What are the new technologies deployed by the institution in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges?
The institution has given emphasis towards enhancing teaching-learning-evaluation process. Some of the measures include e-learning, subscription of online journal EBSCOhost online research data base, and planning for introduction of OSPE/OSCE etc.

4.4.7 What are the IT facilities available to individual teachers for effective teaching and quality research?
Apart from central facility, individual departments are provided with separate computers with internet facility with scanner printer and copier. Faculty can freely assess EBSCOhost online research data base and e-resources for effective teaching and to undertaking quality research. College LAN is also available for quick exchange/sharing of information.

4.4.8 Give details of ICT-enabled classrooms/learning spaces available within the institution. How are they utilized for enhancing the quality of teaching and learning?
The college has 4 ICT enabled lecture halls. All departments have their own ICT enabled seminar rooms. Wi-Fi facility is available in campus and ICT cell in the central library to enhance quality of teaching-learning process.

4.4.9 How are the faculty assisted in preparing computer-aided teaching-learning materials? What are the facilities available in the institution for such initiatives?
The faculty is well versed with computer aided teaching/ learning materials. Whenever needed, they take assistance from IT cell from well qualified personals, appointed by the Institute.

4.4.10 Does the institution have annual maintenance contract for the computers and its accessories?
Yes, the institute has an annual maintenance contract for computers and its accessories from A2Z Multiservice IT Solutions Pvt Ltd, Bareilly.

4.4.11 Does the institution avail of the National Knowledge Network (NKN) connectivity? If so, what are the services availed of?
The college can not avail National Knowledge Network (NKN) connectivity, as this facility is only for government institute and university.

4.4.12 Does the institution avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?
Yes, the institution avails web resources such as Wikipedia, dictionary and other education enhancing resources after checking the authenticity of research publication to avoid violation of copyright. The institute has also taken subscription of EBSCOhost online research data base.

4.4.13 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the institution.
There is a provision of 500000 INR for update, deployment and maintenance of computers in the institution, which includes an annual maintenance charge of 300000 INR for A2Z Multiservice IT Solutions Pvt. Ltd of Bareilly, and 200000 INR for purchasing new computers and accessories.

4.4.14 What plans have been envisioned for the transfer of teaching and learning from closed institution information network to open environment?
- The institute has EBSCOhost subscription. The unique user id and password is provided to the students of our institute which they can access through internet or Wi-Fi.
- The information regarding CDE programs are notified on college website.
- The examination schedule is also displayed on college website.

4.5 MAINTENANCE OF CAMPUS FACILITIES

4.5.1 Does the institution have an estate office/ designated officer for over seeing the maintenance of buildings, class-rooms and
laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.
The institute has an Institutional Purchase and Maintenance Committee headed by the Administrative Officer, who supervises the maintenance and repair. Some of the Initiatives undertaken to improve the physical ambience are:
- Maintenance of garden and lawn
- Yearly Maintenance and whitewash of the whole campus
- Improvement of the hostel infrastructure
- Renovation of Gymnasium
- Installation of lift

4.5.2 How are the infrastructure facilities, services and equipments maintained? Give details.
- There is an Institutional Purchase and Maintenance Committee in place for regular monitoring of infrastructure facilities, services and equipments.
- It also comprises of qualified technicians (dental chair service and equipment maintenance), electricians, plumbers, carpenters, mason etc.
- This committee also looks after the overall maintenance of the institute and its premises.
- Issues concerning renewal of any type of contract, AMCs or insurances are taken care of by this committee.
- The annual white wash of the campus building is also undertaken regularly.

4.5.3 Has the institution insured its equipments and buildings?
Yes, the college has insured its building. Some of the equipments have also been covered under insurance. Renewal of insurance (Institute, infrastructure, equipment, instruments etc.) is taken care of by the Institutional Purchase and Maintenance Committee.

Any other information regarding Infrastructure and Learning Resources which the institution would like to include.

***************************************************************************************
CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 STUDENT MENTORING AND SUPPORT

5.1.1 Does the institution have a system for student support and mentoring? If yes, what are its structural and functional features?
Yes, the institute has a well-established and functional system for student support and mentoring (personal, academic and career counselling) and this system is regularly monitored. Some of the key features of this system are enumerated below.

❖ Mentor-Mentee Program:
Yes, the institute pays special emphasis on counselling /mentoring or advising students on their academic, personal and psycho-social needs. For this, A Mentor-Mentee Program has been implemented centrally & department wise at a given teacher to student ratio of 1:6. Individual department has a teacher to student ratio of approximately 1:20. Slow and fast learners are identified and special counselling is offered. From the current academic year i.e. August 2014, the Mentor-Mentee Programme has been modified/improved by constituting Mentor-Mentee Committee. From 2014, Mentor Mentee ratio is 1:9.

❖ Grievance Cell:
Looks after the grievances of students and patients (college as well as hostel).

❖ Anti-ragging Committee:
This Committee addresses any issues related to ragging in the college. The Committee has taken many steps for prevention of ragging. No case of ragging has been observed till date.

❖ Student Welfare Committee:
This Committee looks into the welfare aspects of the students.

❖ Extra-curricular Committee:
The Extra-curricular committee organizes cultural and sports events for all round development of the students.

❖ Hostel and Hospitality Committee:
This Committee monitors and manages hostel and mess related issues.
5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?
All the faculty members are student-friendly, approachable and routinely provide academic counselling on a daily basis. Mentor-Mentee Program is in place for student’s guidance and mentoring. Remedial classes/discussions are also taken for slow learners. Senior faculty members take special interest in motivating and teaching slow learners especially in clinics.

5.1.3 Does the institution have any personal enhancement and development schemes such as career counselling, soft skills development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.
Yes, institution organizes personal enhancement and development programs such as career counselling, soft skills development, career-path-identification, and orientation programs for well-being for its students.
Orientation programs are organized for freshers (BDS 1st year and MDS 1st year students) which includes i.e. soft skill development, communication skills, English language, spiritual, stress management, research methodology etc. Students can approach counselling cell for their career related counselling. The college also organizes various carrier development workshops by eminent faculties. Some of these are:
- Dr. Satyaki Arora on “Guidance for MDS Coaching” on 27.01.2014 at Kothiwal Dental College & Research centre, Moradabad.

5.1.4 Does the institution have facilities for psycho-social counselling for students?
Yes, Institutional Students/Patient Welfare Committee and some senior faculty members counsel students who need psycho-social counselling, on recommendation by the mentors. If required, on consultation with the parents, the students may be referred to the psychiatrist. Such students are also encouraged to approach the Principal and other senior faculties for any query or counselling.

5.1.5 Does the institution provide assistance to students for obtaining educational loans from banks and other financial institutions?
Yes, the institution provides assistance to students for obtaining educational loans from banks by furnishing bonafied certificate,
fee/expenditure certificate or any other relevant documents to the bank. The institute has a tie-up with the Bank of Baroda, thus providing easy and quick processing of education loan. Institutional Finance Committee also assists such needy students in hassle-free and fast procurement of education loan.

5.1.6 Does the institution publish its updated prospectus and handbook annually? If yes, what are the main issues/activities/information included/provided to students through these documents? Is there a provision for online access?
Yes, the institute publishes its prospectus which provides complete information regarding its background, history and its Management. Apart from this, information regarding departments, faculty, curriculum, infrastructure and various courses are also published. Access to these information is also available online through the college website; i.e. www.kothiwaltdentalcollege.com. The information provided as print/online is also updated annually.

5.1.7 Specify the type and number of institution scholarships/freeships given to the students during the last four years. Was financial aid given to them on time? Give details.
The institution facilitates the students to avail scholarships and fee reimbursement from central and state governments. Yes, financial aid is given to them on time. The number of Government scholarships/freeships given to the students during the last four years is given below:

<table>
<thead>
<tr>
<th>Courses</th>
<th>No. of Students Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2011</td>
</tr>
<tr>
<td>BDS</td>
<td>40</td>
</tr>
</tbody>
</table>

5.1.8 What percentage of students receives financial assistance from state government, central government and other national agencies?
In KDCRC, students receive financial assistance from various agencies from time to time. On an average, approximately 8-9% of the students have received scholarships annually in the last four years. The year wise details of Central/State Government scholarships received from 2011 to 2014 is given below:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Scholarships received (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2011</td>
</tr>
<tr>
<td>BDS/MDS</td>
<td>10%</td>
</tr>
</tbody>
</table>
5.1.9 Does the institution have an International Student Cell to attract foreign students and cater to their needs?
Currently, the institution does not have any International Student Cell. However, based on any such requirements in the future, the same can be created whenever required.

5.1.10 What types of support services are available for:

<table>
<thead>
<tr>
<th>Overseas students</th>
<th>In the process of being implemented.</th>
</tr>
</thead>
</table>
| Physically challenged/differently-abled students | Ramps are provided in dental college and hostel.  
Wheelchairs are available and elevators are provided in the hospital area and college.  
Such students are provided rooms usually on the ground floor in the hostel. |
| SC/ST, OBC and economically weaker sections | College provides assistance in getting financial aid by the State and Central government.  
Book Bank facility. |
| Students participating in various competitions/conferences in India and Abroad | College encourages and motivates its students to participate in such activities.  
Academic/sports leaves are granted.  
Felicitating on College Day.  
Additional marks in internal assessment.  
Names of achievers are displayed on notice board. |
| Health centre, health insurance etc. | Treatments are provided at free or highly subsidized rates.  
Medicines are provided at concessional rates. |
| Skill development (spoken English, computer literacy, etc.): | Orientation program/lectures (5.1.2)  
Computer classes  
ICT facility |
| Performance enhancement for slow learners: | Mentor-Mentee Program  
Identification of slow learners  
Remedial classes for slow learners (5.1.1, 5.1.2) |
| Exposure of students to other institutions of higher learning/corporate/business houses, etc.: | College encourages and motivates its students to participate in such activities.  
Organize and conduct various CDE programs by eminent and highly experienced faculty from different institute/companies. |
Kothiwal Dental College & Research Centre, Moradabad

5.1.11 Does the institution provide guidance and/or conduct coaching classes for students appearing for competitive examinations (such as USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS)? If yes, what is the outcome?

The institute has an Academic Council, which provides a very comprehensive guidance and training program for interns and the final year MDS students. Information regarding these exams is also displayed at notice boards at Central office. Many of our students are selected through AIPG, COMED-K, UPPGEE, UPCAT and have also cleared National boards.

The college facilitates aspiring students by providing:
- Study material in the college library.
- Previous year question papers (MCQs).
- Information regarding entrance examinations.
- Free e-learning and internet facilities at the library.

5.1.12 Mention the policies of the institution for enhancing student participation in sports and extracurricular activities through strategies/schemes such as:

Institute encourages and motivates its students to participate in such activities.

<table>
<thead>
<tr>
<th>Additional academic support and academic flexibility in examinations</th>
<th>Students representing the institute for participating in various academic or extracurricular activities are provided with extra marks in their internal assessment. If such activities fall during internal examination (viva-voice/theory/practical), then separate exams are conducted for</th>
</tr>
</thead>
</table>
Special dietary requirements, sports uniform and materials | Institute provides balanced and nutritious diet to all its students. Mess facility is constantly monitored by Institutional Hostel and Mess Committee. Sports kit and uniforms are also provided for such students.

Any other (specify) | The college has a Basketball Court, Cricket ground, Volleyball court and Badminton courts for students. There is a gymnasium in the college campus. Regular intra-institutional Crickets, Football, Basketball, Volleyball matches are conducted. Indoor sports facilities like Carrom Board and Table Tennis are also provided to the students in their recreation rooms. Student participation in co-curricular and extra-curricular activities is greatly encouraged and appreciated.

5.1.13 Does the institution have an institutionalized mechanism for student placement? What are the services provided to help students identify job opportunities, prepare themselves for interviews, and develop entrepreneurship skills?
The college gives preference to its own students who have passed with distinction during placement. Institute also motivates them and encourages them to become an entrepreneur (private practice). A Placement Cell is in place which is headed by the Principal for guiding and helping students for identifying any job opportunities, higher learning and how to establish private clinic/hospital etc. Job notifications/opportunities are also notified through notice boards in front of Central office and departments.

5.1.14 How does the institution provide an enriched academic ambience for advanced learners?
- The institute continuously strives to provide the best academic ambience and facility for advanced learners.
- The central as well as departmental libraries have a rich collection of books and journals.
- Access to internet and other web based information are readily available for reference.
- Laboratories are well equipped with state-of-the-art facilities.
- Faculty constantly encourages the students to take up research projects and other academic activities.
5.1.15 What percentage of students drop-out annually? Has any study been conducted to ascertain the reasons and take remedial measures?
Average dropout rate is 1-2% and students who left the institute, had done so mainly due to personal reasons. Parents and student counselling was undertaken by the Principal and Administrative officer. Drop out forms is filled by the person dropping out and same is analysed for relevant remedial measures as necessary.

5.1.16 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).
Not applicable.

5.1.17 Does the institution have a registered Alumni Association? If yes, what are its activities and contributions to the development of the institution?
Yes, the institution has a registered Alumni Association. Eminent alumni are invited to deliver lectures/discussions related to their areas of interest/research or fields of expertise. They also interact with UG and PG students to share their experiences. They are also invited as University external examiners. Alumni suggestions/feedback is collected by Institutional Alumni Association Committee and is then forwarded to Academic Council for its implementation (if any). Their feedback has had a positive impact on academic and infrastructural development of the institute.

5.1.18 List a few prominent alumni of the institution.
Some of the prominent alumni of this institution are mentioned below
- Dr Kanika Sethi is working as Associate Researcher at Rajiv Gandhi Cancer Institute, New Delhi.
- Dr Sumita Bannerjee is working as Senior Lecturer at Regional Institute of Medical Sciences, Imphal.
- Dr Shraddha Gupta is doing MDS Prosthodontics at Aligarh Muslim University.
- Dr. Ankit Arora is presently working as Senior Resident at AIIMS, Delhi.
- Few of our alumni have been selected as senior resident in Jamia e.g. Dr. Ankita Tandon, Dr. Vipul Yadav is in Malauna Azad Institute of Dental Sciences; Dr. Rajshree is in Govt. Dental College, Guwahati.
- Dr. Nausheen Khan Research Fellow, Umea University, Umea, Sweden
- Dr. Aditi Rastogi Research Analyst, Mount Elizabeth Hospital, Singapore
5.1.19 In what ways does the institution respond to alumni requirements?
The institute organizes various conferences, conventions, CDEs, workshops and Faculty Development Programs, where all the alumni are invited to attend such programs thus, enhancing their knowledge and clinical skills. Institutional Alumni Association also conducts regular alumni meets.

5.1.20 Does the institution have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?
Yes, the institution has a mechanism for timely redressal of student grievances. Once any grievance is brought before the Grievance Cell by students or mentors, it directs the student to approach the specific committee or the grievance cell itself informs the specific committee such as Anti-ragging, Disciplinary Committee, Hostel and Hospitality committee etc. to take actions. Mostly grievances are only related to hostel, food, gate pass etc.

5.1.21 Does the institution promote a gender-sensitive environment by (i) conducting gender related programs (ii) establishing a cell and mechanism to deal with issues related to sexual harassment? Give details.
The institute has zero tolerance towards any form of gender-based discrimination, exploitation and harassment. Women’s Cell is in place, which is a part of Disciplinary Committees and is created on as and when required basis depending on the reported case. Till date no such cases have been reported in this institution.

5.1.22 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?
Yes, there is an Institutional Anti-ragging and Disciplinary Committee. The names of the members in this committee with their mobile number are displayed at various strategic locations in the institute as well in hostels (boys & girls). No cases of ragging have been reported till date.

5.1.23 How does the institution elicit the cooperation of all its stakeholders to ensure the overall development of its students?
The institution elicits the cooperation of all its stakeholders to ensure the overall development of its students. Mentor-Mentee Program is in place and is constantly monitored throughout the year. Principal also conducts regular meetings with mentor about the overall development of the students. Parents are informed about their ward and can also directly approach the Principal, in case they are not satisfied.
Stakeholders (students, parents, patients, faculty, management) also provide suggestions, moral and financial support in overall development of the institution. Feedback from students, alumni, patients and parents is also taken on regular basis. All such suggestions/feedback is discussed with Management, Academic Council and Principal. These are then incorporated for overall development of institute.

5.1.24 How does the institution ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.
Institution ensures the participation of female students in intra and inter-institutional sports competitions, cultural activities or any other curricular/extra-curricular activities. Institute also organizes matches especially for Females i.e. Cricket, Basketball, Volleyball and Badminton. Details of Annual Extracurricular Report are at Annexure No. 16.

5.1.25 Does the institution enhance the student learning experience by providing for rotation from the teaching hospital to the community and district hospital during the internship period?
Yes, UG, PG students and Interns are posted on rotational basis in various camps (educational, diagnostic, treatment etc.) organized by the institute. Rotational postings in satellite centre are also scheduled when interns are posted in the Department of Public Health Dentistry.

5.1.26 Does the institution has immunization policy for its students and staff?
Yes, the institution has Immunization Policy for its students and staff.

5.1.27 Does the institution give thrust on students growth in terms of:

<table>
<thead>
<tr>
<th>Physical development</th>
<th>Students are encouraged to participate in various intra/inter institutional extra-curricular activities. Gymnasium facility is also provided to the students inside the college campus.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emotional control</td>
<td>Regular counselling is done by the mentors allotted, to provide both academic and emotional support to the student.</td>
</tr>
<tr>
<td>Social dimension</td>
<td>Students are encouraged to participate in various intra &amp; inter college academic, cultural and sports activities.</td>
</tr>
<tr>
<td>Spiritual growth</td>
<td>Temple facility is provided within the campus premises. Lectures on spiritual issues are taken from time to time.</td>
</tr>
</tbody>
</table>
5.2 STUDENT PROGRESSION

5.2.1 What is the student strength of the institution for the current academic year? Analyze the Program-wise data and provide the trends (UG to PG, PG to further studies) for the last four years.

The student strength of the institute is as follows:

BDS: 100 x 5 = 500 (4 year course + 1 year internship)
MDS: 40 x 3 = 120

<table>
<thead>
<tr>
<th>Student Enrolment-2010</th>
<th>UG</th>
<th>PG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td>Number of students from the same state where the institution is located</td>
<td>25</td>
<td>37</td>
</tr>
<tr>
<td>Number of students from other states</td>
<td>13</td>
<td>25</td>
</tr>
<tr>
<td>Number of NRI Students</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Number of overseas students</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Enrolment-2011</th>
<th>UG</th>
<th>PG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td>Number of students from the same state where the institution is located</td>
<td>20</td>
<td>32</td>
</tr>
<tr>
<td>Number of students from other states</td>
<td>11</td>
<td>37</td>
</tr>
<tr>
<td>Number of NRI Students</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Number of overseas students</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Enrolment-2012</th>
<th>UG</th>
<th>PG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td>Number of students from the same state where the institution is located</td>
<td>20</td>
<td>38</td>
</tr>
<tr>
<td>Number of students from other states</td>
<td>10</td>
<td>32</td>
</tr>
<tr>
<td>Number of NRI Students</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Number of overseas students</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Enrolment-2013</th>
<th>UG</th>
<th>PG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
</tr>
</tbody>
</table>
###Criterion V : Student Support And Progression

<table>
<thead>
<tr>
<th>Number of students from the same state where the institution is located</th>
<th>14</th>
<th>28</th>
<th>42</th>
<th>11</th>
<th>09</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of students from other states</td>
<td>24</td>
<td>34</td>
<td>58</td>
<td>12</td>
<td>08</td>
<td>20</td>
</tr>
<tr>
<td>Number of NRI Students</td>
<td>-</td>
<td>-</td>
<td>NA</td>
<td>-</td>
<td>-</td>
<td>NA</td>
</tr>
<tr>
<td>Number of overseas students</td>
<td>-</td>
<td>-</td>
<td>NA</td>
<td>-</td>
<td>-</td>
<td>NA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Enrolment-2014</th>
<th>UG</th>
<th>PG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td>Number of students from the same state where the institution is located</td>
<td>16</td>
<td>34</td>
</tr>
<tr>
<td>Number of students from other states</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Number of NRI Students</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Number of overseas students</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

*M – Male, F- Female, T-Total

5.2.2 What is the number and percentage of students who appeared/qualified in examinations for Central / State services, Defense, Civil Services, etc.? Few of our students have been qualified in examinations for Central/State services, Defense, Civil Services. Following below is the list of students selected in government colleges in India/abroad:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name</th>
<th>College Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Inderpreet Singh Narula</td>
<td>KGMC, Lucknow</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Chandraveer Singh</td>
<td>GDC, Bangalore</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Deepak Pasi</td>
<td>KGMC, Lucknow</td>
</tr>
<tr>
<td>4</td>
<td>Dr. Poonam Agarwal</td>
<td>GDC, Ahmedabad</td>
</tr>
<tr>
<td>5</td>
<td>Dr. Tarun Kumar Singh</td>
<td>GDC, Goa</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Shilpi Gangawar</td>
<td>KGMC, Lucknow</td>
</tr>
<tr>
<td>7</td>
<td>Dr. Ankit Arora</td>
<td>AIIMS, New Delhi</td>
</tr>
<tr>
<td>8</td>
<td>Dr. Rahul Vishnoi</td>
<td>GDC, Indore</td>
</tr>
<tr>
<td>9</td>
<td>Dr. Alka Rani Chauhan</td>
<td>GDC, Shimla</td>
</tr>
<tr>
<td>10</td>
<td>Dr. Garima Garg</td>
<td>GDC, Nagpur</td>
</tr>
<tr>
<td>11</td>
<td>Dr. Anusar</td>
<td>KGMC, Lucknow</td>
</tr>
<tr>
<td>12</td>
<td>Dr. Simran Rayat</td>
<td>SGPGI, Chandigarh</td>
</tr>
<tr>
<td>13</td>
<td>Dr. Nausheen Khan</td>
<td>Research Fellow, Umea University, Umea, Sweden</td>
</tr>
</tbody>
</table>
5.2.3 Provide category-wise details regarding the number of post graduate dissertations, Ph.D. and D.Sc. theses submitted/ accepted/ rejected in the last four years.
Till date, all the thesis and dissertations have been accepted. Details regarding the number of PG dissertations submitted and accepted/rejected in last four years are as follows:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Year</th>
<th>Submitted</th>
<th>Accepted/Rejected</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2011-2012</td>
<td>28</td>
<td>Accepted</td>
</tr>
<tr>
<td>2</td>
<td>2012-2013</td>
<td>29</td>
<td>Accepted</td>
</tr>
<tr>
<td>3</td>
<td>2013-2014</td>
<td>29</td>
<td>Accepted</td>
</tr>
<tr>
<td>4</td>
<td>2014-2015</td>
<td>34</td>
<td>Accepted</td>
</tr>
</tbody>
</table>

5.2.4 What is the percentage of graduates under AYUSH programs employed in the following?

- AYUSH departments/Hospitals: Not Applicable
- Multinational companies: Not Applicable
- Health clubs: Not Applicable
- Spas: Not Applicable
- Yoga wellness centers: Not Applicable
- Yoga studios: Not Applicable
- Own Yoga cubes/studios: Not Applicable

5.3 STUDENT PARTICIPATION AND ACTIVITIES

5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the program calendar and provide details of students’ participation.
Institute annually organize sports, cultural and extracurricular activities. Refer Annual Extracurricular Report Annexure No.16 & 17.

<table>
<thead>
<tr>
<th>Activities</th>
<th>Organized</th>
<th>Participated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University/State/Zonal/National/International, etc. during the last four years.

Students of KDCRC regularly participate in various Inter-institutional activities. The details of the achievements of students participated in co-curricular, extracurricular and cultural activities at different levels: University/State/Zonal/National/International, etc. during the last four years is given in Annual Extracurricular Report at Annexure No. 16.

5.3.3 Does the institution provide incentives for students who participate in national / regional levels in sports and cultural events?

Yes, students who represent the institute in sport, cultural and other extra-curricular activities, are provided official leaves with logistic support. For such students, if they miss any internal examinations, then separate examinations are also conducted.

5.3.4 How does the institution involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/materials brought out by the students during the last four academic sessions.

Institute encourage its students to publish their views/research in various magazines and journals.

- Publication in Wall Magazine published by Department of Oral Pathology.
- Institute publishes its own peer reviewed journal “Chronicles of Dental Research”. Students are encouraged to publish their research in this journal.
- Special recognition is given to the students, if they publish articles in various peer reviewed indexed national and International journals having Impact Factor.
Students are also encouraged to design education materials in the form of charts, models etc. which are kept in concerned departmental museum.

The major publications/materials brought out by the students during the last four academic sessions are maintained in the respective departments.

5.3.5 Does the institution have a Student Council or any other similar body? Give details on its constitution, activities and funding.
Yes, the institute has Student Council which is funded by the institution. The constitution of this council is as follows:

Chairman: Dr. V. K Arora
Member: Dr. Romil Singhal

Student Member:
PG- Dr. Sandeep Rajan, Dr. Kratee Sharma
II yr- Fiza Khan, Ashutosh Mukharjee
III yr- Aarzoo Malik, Aditya Sharma
IV yr- Mahera Sadaf, Vaibhav Agarwal

Refer to Respective Committee document for the remaining details.

5.3.6 Give details of various academic and administrative bodies that have student representatives in them. Also provide details of their activities.
Students actively participate in the committee meetings, and are also involved in decision making process. Student representation in various committees is as follows:

- Institutional Hostel and Hospitality Committee
- Institutional Committee for Extra Curricular Activity
- Institutional Student/Patient Welfare Committee
- Student Cell
- Institutional Anti-ragging Committee
- Institutional Disciplinary Committee

Student’s representation in the committees helps in smooth functioning of the committees by forwarding the views, requirements and suggestions of the students to the various committees such as student representatives of Hostel and Hospitality committee forward the request for change in mess menu or the representatives of anti-ragging committee put forth the problems of junior students before the committee. Active participation of students plays an important role in effective and efficient functioning of various committees.

Any other information regarding Student Support and Progression which the institution would like to include.

****************************************************
CRITERION VI
CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 INSTITUTIONAL VISION AND LEADERSHIP

6.1.1 State the vision and the mission of the institution.

Our Vision
- Commitment to nurture trained professional manpower and transforming them into proficient and receptive workforce for meeting the challenges of a dynamic and vibrant society.
- Providing the highest standards of patient care, support and management services whilst meeting the dental health needs of community.
- Model and generate professional goodwill, co-operation and friendship, to secure peace, cohesion and work mindedness and to achieve social and educational objectives.
- Create a model of academic brilliance by offering best educational facilities that propagate a healthy and conducive research environment so as to transform Kothiwal Dental College & Research Centre into a leading dental institute of international acclaim.

Our Mission
- To cater to the professional needs of the students by providing quality educational services.
- To inculcate good moral and ethical values in students and faculty members so as to facilitate building up their professional character and personal integrity.
- To impart dental health awareness among the public and provide quality affordable services to different strata of the society.
- To promote learning, teaching and assessment system which consents students to gain and develop the knowledge and skills appropriate to their chosen area of specialization.
- To promote and practice research related activities.

6.1.2 Does the mission statement define the institution’s distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution’s tradition and value orientations, its vision for the future, etc.?

- The institution imparts dental health awareness among the community and provides quality affordable services to different strata of the society. It also generates committed dental professionals who are confidant, dedicated and highly receptive to the multifaceted challenges of a diverse, dynamic and fast
growing society. The institution aims at providing the highest standards of patient care; understanding and meeting multifarious dental needs of the community through novel ways, creating and promoting facilities for good research environment and making KDCRC an internationally acclaimed dental institution.

- The institution envisions generating professional goodwill, cooperation and friendship through mutual understanding cohesion and a collaborative attitude to achieve social and educational objectives peacefully. Further, it aims at inculcating good moral and ethical values in its students and staff that will additionally facilitate building up of a good character and personality in them.

6.1.3 How is the leadership involved in

<table>
<thead>
<tr>
<th>Developing E-Governance strategies for the institution?</th>
<th>Steps have been taken by KDCRC to computerize almost all the spheres of the Institute i.e. academic, research, administrative, financial etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>❖ Software is used to manage the OPD record which is being maintained by A2Z Multi service IT Solutions Pvt Ltd, Bareilly.</td>
</tr>
<tr>
<td></td>
<td>❖ Biometric machine is installed in the office for attendance of faculty.</td>
</tr>
<tr>
<td></td>
<td>❖ The institute has subscribed for e-journals through EBSCOHost online research database in KDCRC library.</td>
</tr>
<tr>
<td></td>
<td>❖ The college has its own website giving information regarding admission, courses available, facilities etc.</td>
</tr>
<tr>
<td></td>
<td>❖ Grievances can also be reported to Grievance Committee through a link in college website.</td>
</tr>
<tr>
<td></td>
<td>❖ Wi-Fi facility for students and staff (hotspot zones) is present within the college premises.</td>
</tr>
<tr>
<td></td>
<td>❖ RVG digital radiography is installed in department of Oral Medicine and Radiology, Pedodontics and Conservatives.</td>
</tr>
<tr>
<td></td>
<td>❖ Circulation of notices via WHATSAPP/WAY2SMS.</td>
</tr>
</tbody>
</table>

| Ensuring the organization’s management system         | ❖ The leadership of the KDCRC is provided by the Director under the guidance of the statutory bodies (DCI and University), Management Committee, Principal and all |

Kothiwal Dental College & Research Centre, Moradabad
| development, implementation and continuous improvement? | the Institutional Committees. Annexure No. 8.  
- Regular interaction, supervision, monitoring feedback, assessment and reporting system through properly defined organizational chain of command ensures continuous management system development and improvement with a time bound approach. |
|---|---|
| Interacting with its stakeholders? | - There is regular interaction with stakeholders, students (through formal and informal feedback), parents, patients (through direct feedback/suggestion register) and the alumni (through alumni feedback).  
- Regular meetings of faculty members are held in the respective departments to discuss functioning, teaching and evaluation processes.  
- Regular meetings are also held at Principal’s office involving all the HODs for discussing departmental functions, clinical work, issues concerning the students, patients, academic curriculum etc.  
- Stakeholders are free to interact with the Director and Principal of the institute whenever required.  
- Principal’s phone number is also displayed at various strategic locations for the convenience of stakeholders. |
| Reinforcing a culture of excellence? | - The college promotes its faculty and students to attend advanced training workshops, national and international conferences, CDE etc.  
- The college also promotes its faculty and students to participate in various inter/intra institutional extracurricular activities.  
- The institute promotes and recognizes its faculty and students who excel in the field of academics, research and co-curricular activities.  
- Feedback system is in place for all its stakeholders and is continuously monitored by Student/Patient Welfare committee, Academic council, and Alumni Committee respectively. Implementing worthy
### Identifying organizational needs and striving to fulfil them?

- Institute regularly assesses its needs in terms of education, research, quality of equipments, instruments, materials, treatment, infrastructure, faculty requirement etc.
- Institute obtains feedback from its stakeholders. These are then analyzed by Institutional Committees and appropriate actions taken accordingly.

---

<table>
<thead>
<tr>
<th>6.1.4 Were any of the top leadership positions of the institution vacant for more than a year? If so, state the reasons.</th>
<th>No</th>
</tr>
</thead>
</table>

| 6.1.5 Does the institution ensure that all positions in its various statutory bodies are filled and meetings conducted regularly? | Yes, all positions in various Statutory Bodies are filled adequately. Meetings are conducted regularly by these Statutory Bodies and various Institutional Committees. (Annexure No. 8) |

<table>
<thead>
<tr>
<th>6.1.6 Does the institution promote a culture of participative management? If yes, indicate the levels of participative management.</th>
<th>Yes, the institute promotes a culture of participative management at all the levels.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students, faculty &amp; management representation in various institutional committees.</td>
<td></td>
</tr>
<tr>
<td>Suggestions are regularly obtained from all the stakeholders through feedback mechanisms. These suggestions, as applicable are acted upon by the concerned personnel for constructive growth and development of the organization.</td>
<td></td>
</tr>
<tr>
<td>Interdisciplinary departmental collaboration and approach are earnestly followed in patient treatment and management.</td>
<td></td>
</tr>
</tbody>
</table>
6.1.7 Give details of the academic and administrative leadership provided by the university to its affiliated colleges/constituent units and the support and encouragement given to them to become autonomous.
Not Applicable

6.1.8 Have any provisions been incorporated/introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?
Not Applicable

6.1.9 How does the institution groom leadership at various levels? Give details.
The following measures are taken by the management to groom leadership at various levels:
- Constant encouragement and support to the staff and faculty.
- By conducting various skill up-gradation and faculty development workshops/capsules on subjects/areas such as up-gradation of clinical skills, computers, account/tax management, soft skills, personality development) for its faculty and students.
- Faculty and students are motivated to attend and to participate in various above mentioned programs.
- Management committee has given complete academic autonomy to its faculties/HODs in teaching, evaluation, health care and research programs.
- HODs are given autonomy in their choice of action for the welfare of the department.
- Functioning of individual institutional committees with autonomy in decision making provides a platform for growth of leadership skills.
6.1.10 Has the institution evolved a knowledge management strategy which encompasses the following aspects such as access to

| Information Technology | ICT cell in Library (equipped with high speed broadband internet facility)  
|                        | ICT enabled lectures halls  
|                        | ICT enabled seminars rooms in all the departments  
|                        | Broadband internet facility in all the departments.  
|                        | Subscription to online journals (EBSCOhost) |
| National Knowledge Network (NKN) | NKN (Applicable only to government institutes and universities) |
| Data Bank | Data bank available in library in the form of e-books, e-journals and previous year question papers. |
| Other open access resources along with effective intranet facilities with unrestricted access to learners. | The wired and Wi-Fi internet facility and subscription of EBSCOhost online research database is provided to faculty and students which facilitates access to open education resources |

6.1.11 How are the following values reflected in the functioning of the institution?

**Contributing to National development:**
- The professionals produced from this institution are serving in different parts of the country, including Indian army.
- The institute offers quality dental treatment to the needy people at subsidized rates.
- Institute has adopted various schools and villages for catering to diverse societal oral health care needs.
- The institute also engages itself in creating awareness towards: Tobacco Control, Cancer Control and Oral Health through organizing various educational camps, rallies in schools and communities.
Fostering global competencies among students:
- The institution is open to the new information and development in the field of dentistry.
- Students are encouraged and motivated to attend various national and international level conferences/conventions, CDE programs, workshops & advanced training programs.
- Faculty are also encouraged to attend various national and international level conferences, CDE programs, workshops & advanced training programs so that they can inculcate this knowledge to their students and make them competitive at global level.
- Both students and faculty are encouraged to present their original research work at various state/national/international level conferences and conventions, and are also provided with incentives.
- The institute also provides opportunity for its students to carry out research at both the UG and PG level.
- Faculty and students are encouraged to publish their research work in various peer reviewed indexed National or International journals.
- The professionals produced from this institution are serving not only in India but also in other countries.

Inculcating a sound value system among students:
- A sound value system is promoted by the institute and students are motivated to follow them.
- A cordial, peaceful and amicable environment for students is created in institute and campus which is also conducive for the conduct of research.
- A temple and a recreational facility inside the campus cater to student’s religious needs.
- Students are taught about inculcating good moral and ethical values including ethics in research activities.
- Professionals produced from the Institute are adjudged as highly responsible and professionally competent.
- Disciplinary Committee is responsible for handling any issue regarding misconduct within the college campus.
- The institute also celebrates national days with fervour and festivity e.g. Independence Day, Republic Day etc. so as to make everyone aware of our national culture and traditions.

Promoting use of technology:
- Our institution is always keen in using latest and best equipments/instruments which are available in the market.
Research Committee is responsible for recommending the management for the procurement of latest instruments.

- Incorporation of e-learning resources.
- Computerization and automation of various spheres of the institute i.e. records, attendance, library etc.

**Quest for excellence:**
The institution is always keen in promoting the excellence both in academic as well as in clinical field. The students who score the highest marks in University exams are acknowledged in various functions and are felicitated. Also, the students who have been awarded in various national conferences are recognized and felicitated in the institute.

6.1.12 **Has the institution been indicted/given any adverse reports by National Regulatory bodies? If so, provide details.**
No

6.1.13 **What are the projected budgetary provisions towards teaching, health care services, research, faculty development, etc.?**
The budgetary provisions towards various heads for the financial year 2014-15 is as follows-

<table>
<thead>
<tr>
<th>Type of Budget Head</th>
<th>Amount in Lakhs (2014-15)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching</td>
<td>85,650,000</td>
</tr>
<tr>
<td>Health Care Services</td>
<td>14,190,000</td>
</tr>
<tr>
<td>Research</td>
<td>2,500,000</td>
</tr>
<tr>
<td>Faculty Development</td>
<td>1,850,000</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>46,025,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>155,928,435</strong></td>
</tr>
</tbody>
</table>

(Annexure No. 18)

6.2 **STRATEGY DEVELOPMENT AND DEPLOYMENT**

6.2.1 **Does the institution have a perspective plan for development? If yes, what aspects of the following are considered in the development of policies and strategies?**
- Vision and mission
- Teaching and learning
- Research and development
- Community engagement / outreach activities
- Human resource planning and development
- Industry interaction
* Internationalization

Yes, this institution has a clear perspective plan for its development in the future. KDCRC is fully committed to sustained growth, positive progression, professional enrichment and oral health services for its stakeholders. This is achieved through high quality academic exposure and education to its students. The college already is well recognised in the region and further endeavours to be acclaimed globally and be a front runner in the field of dental education, patient care and research. Vision and mission of KDCRC are the inseparable foundation stones of perspective plan for development. These are enshrined in the KDC Vision & Mission Document as well as displayed in KDCRC premises.

6.2.2 Describe the institution’s internal organizational structure (preferably through an organogram) and decision making processes and their effectiveness

* Is there a system for auditing health care quality and patient safety? If yes, describe.

Yes, internal audits are conducted regularly to monitor and to ensure oral health care quality, patient safety and satisfaction by various Institutional Committees.
Institutional Ethics and Review Board monitors ethics related issues. Consent forms are available at all the departments and are duly filed, signed by the patient before performing any procedure on them. For any in-vivo study ethical clearance is required from Institutional Ethics and Review Board.

Institutional Bio-safety and Environmental Committee monitors sterilization and disinfection procedures of various departments.

Institutional Biosafety and Environmental Committee also monitors segregation and disposal of hospital waste.

Health care delivery is assessed through patient feedback mechanism and suggestion register.

Head of the departments also ensure that best quality of treatment is provided in the department.

Patients can directly contact the Principal for any inconvenience caused. Principal’s contact number is also displayed at key locations.

* How often are these review meetings held with the administrative staff?
Quarterly review meetings are conducted with the administrative staff.

6.2.3 Does the institution conduct regular meetings of its various Authorities and Statutory bodies? Provide details.
Yes, the institution conducts regular meetings of its various authorities, Committees and Statutory Bodies. (Annexure No. 8)

6.2.4 Does the institution have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?
Yes, a formal mechanism is in place to monitor and ensure quality in academics, equipments/instruments/materials and treatment etc. Various Institutional Committees monitor and ensure quality by regularly conducting audits, feedback, inspections, forming & implementing various guidelines and Standard Operating Procedures (SOPs). (Annexure No. 8)

6.2.5 Does the institution encourage its academic departments to function independently and autonomously and how does it ensure accountability?
Yes, the institution encourages its academic departments to function independently and autonomously. All the powers especially regarding academic and disciplinary activities are given to the HODs e.g. internal assessment marks for University exams, attendance of the staff and students are accepted only after recommendation by the HOD, the allotment of guide, and thesis topics are decided by the department
with information to the Principal. Regular meeting of all the HODs are held with the principal and the management. There is regular auditing of the store and consultancy generated income of the departments, once in a year. The Academic Council informs the Principal and the Management about the highlights of the feedback obtained from students. The various committees also address the important issues with the Management.

6.2.6 During the last four years, have there been any instances of court cases filed by and/or against the institution? What were the critical issues and verdicts of the courts on these issues?
No

6.2.7 How does the institution ensure that grievances/complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?
❖ Yes, the Grievance Committee attends to and resolves the complaints of stakeholders promptly and effectively. There is also an Anti-ragging Committee, Mess Committee and Hostel Committee all includes student members. All these committees address the complaints of the students and resolve them efficiently or with the help of Principal and Management Committee.
❖ Patients can directly either meet the Principal or call his telephone/mobile. His mobile number is also displayed at various places.
❖ Patients can also mention their suggestions/grievances in the suggestion register kept at various departments. Patient feedback is also taken in all clinical departments.
❖ The nature of grievances and their probable causes and remedies are deliberated upon at opportune moments during various meetings with the decision making bodies and further actions are undertaken.

6.2.8 Does the institution have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?
Yes, the institution has a mechanism for analyzing student feedback on institutional performance. Feedback forms are available on the institutional website. They can also be downloaded and dropped in suggestion boxes. These forms include feedback on teaching/learning, course, curriculum, infrastructure, mess & hostel facilities, library etc. The received grievances are compiled, analyzed and redressed
confidentially by the concerned Committee and Principal including key members from the decision making body of the institution.

6.2.9 Does the institution conduct performance audit of the various departments?
Yes, the institute conducts an annual performance audit of its constituent departments.
- These audits are focused on areas concerning education, research, achievements and oral health care etc.
- Feedbacks from students are taken regularly on department, faculty, course and curriculum.
- On an annual basis, the KDCRC faculty is also required to submit their ‘Faculty Appraisal Form’ in order to access their annual performances.
- Meetings between the principal and HODs of various departments are conducted on a regular basis, wherein, performance of the students based on their results, performance of staff, income generated through consultancy and/or any complaints against department, faculty or college support staff are discussed in detail for further action and overall constructive growth of the institution.

6.2.10 What mechanisms have been evolved by the institution to identify the developmental needs of its affiliated/constituent institutions?
Not applicable

6.2.11 Does the institution and hospital have their own updated websites?
If so, is the information regarding faculty and their areas of specialization, days of availability, timings, consultation charges available on the website?
Yes, the institution and its constituent hospital each have their own updated websites. Not only the information regarding faculty, their areas of specialization, days of availability as well as their timings are available on the website but also many other important information regarding the institution and information necessary for stakeholders or visitors are also available on the college website www.kothiwalidentalcollege.com and is regularly updated.

6.2.12 What are the feedback mechanisms and documentations to evaluate the outcomes of these exercises?
A systematic and robust mechanism is in place to document, compile, analyze and redress the feedback mechanism whilst maintaining the necessary confidentiality in many cases. Following are the feedback forms that are available for various stakeholders of the institute and the
names of the Committee that is responsible for further necessary action:

<table>
<thead>
<tr>
<th>Feedback forms</th>
<th>Stakeholder</th>
<th>Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student feedback on</td>
<td>Students</td>
<td>Academic Council</td>
</tr>
<tr>
<td>teachers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient satisfaction</td>
<td>Patient</td>
<td>Student/ Patient Welfare Committee</td>
</tr>
<tr>
<td>from</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drop out feedback</td>
<td>Student</td>
<td>Administrative Officer</td>
</tr>
<tr>
<td>form</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Library feedback</td>
<td>Students and</td>
<td>Library Committee</td>
</tr>
<tr>
<td>form</td>
<td>faculty</td>
<td></td>
</tr>
<tr>
<td>Mentor – Mentee</td>
<td>Students</td>
<td>Mentors–Mentee Committee</td>
</tr>
<tr>
<td>program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grievance form</td>
<td>Students, parents</td>
<td>Grievance Committee</td>
</tr>
<tr>
<td>Annual Report</td>
<td>Faculty</td>
<td>Principal / Academic Council</td>
</tr>
<tr>
<td>Form</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alumni Feedback</td>
<td>Alumni</td>
<td>Alumni Committee</td>
</tr>
<tr>
<td>Form</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6.3 FACULTY EMPOWERMENT STRATEGIES

6.3.1 What efforts have been made to enhance the professional development of teaching and non-teaching staff? What is the impact of continuing Professional Development Programs in enhancing the competencies of the university faculty?

Significant efforts have been made by the Institute to enhance the professional development of teaching and non-teaching staff.

- College faculty members are encouraged to participate in International/National/State level seminars, conferences, workshops and training Programs.
- Reimbursement facility (conference/convention fee, TA/DA) is provided by the Institute to attend the conferences/conventions etc. at National or International levels.
- Faculty members are also motivated to attend hands on courses, workshops, Continuing Professional Development Programs.
- Concerned faculty usually discuss these topics with other faculty members and students, with an intention of further imparting knowledge gained about the latest development in the concerned fields.
- Annual Report of the department is submitted at the end of each year.
- Performance linked Incentive System (PLIS) is in place for increments or academic promotions of faculty.
Non-teaching staff are also sensitized about the need for Continuing Professional Development. Special computer classes are also organized for non-teaching staff based on hospital skill and needs.

Before attending any new instruments or equipment by non-teaching staff, HODs usually sensitized them about their cleaning, sterilization (if, applicable) and at its SOP.

Details of faculty research work, no of publications or any other significant achievement by the faculty is displayed outside the every department.

6.3.2 What is the outcome of the review of various appraisal methods used by the institution? List the important decisions.

The various appraisal methods are used in the institution and few important decisions taken are as follows:

- Feedback System
- Departmental Annual Report
- Internal Assessment of Students
- Student Academic Performance Card Etc.
- Introduction of Mentor-Mentee Program
- Subscription of E-Learning Resources

All these appraisal methods have a positive impact on the academic performance of stakeholders. Based on student’s feedback on faculty, they are informed about the lack of performance and advised by the senior faculty to improve. Based on the problems faced by the patients, Principal’s mobile number is displayed at various places of institute to contact for any inconvenience. Based on self appraisal report, some of the faculty members are advised to increase the research activity and publications.

Based on Self Appraisal Report and Performance Linked Incentive System, faculty are given recognition, annual increments, professional promotion etc.

6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefited from these schemes in the last four years? Give details.

Following welfare schemes are available for teaching and non-teaching staff along with percentage utilized by staff:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>In Campus free of cost accommodation</td>
<td>60%</td>
<td>55%</td>
<td>53%</td>
<td>50%</td>
</tr>
<tr>
<td>2</td>
<td>24x7 free power supply</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>
6.3.4 What are the measures taken by the institution for attracting and retaining eminent faculty?

The various measures are taken by the institute to retain and attract the eminent faculty:

- Transparency in overall process e.g. requirement, promotion, grievances etc.
- The salary to the employees in the institute is at par or better than that provided by other institutes.
- Salary is on a timely and regular basis.
- Faculty can practice after college hours.
- The institute provides in campus well-furnished free accommodation with Wi-Fi facility.
- There is a 24 hour electricity supply with a generator/inverter back up.
- A free schooling facility is provided for children of the faculty in the allied schools.
- Trust worthy management.
- Quick and efficient redressal of personal and professional concerns of the stakeholders.

The staff recruitment process is completely in the hands of the Management. The selection is made through transparent process, purely on merit and or interview basis. The selection process involves placing advertisement in the Newspaper, interview/observation of the class-room teaching demonstration by the Principal and Management, then selection of the candidates in the order of merit.

6.3.5 Has the institution conducted a gender audit during the last four years? If yes, mention a few salient findings.

The institution conducts internal gender audit for its students, faculty and non-teaching staff. Total no. of Males: Females working or admitted in the institute during last 4 years as follows:

<table>
<thead>
<tr>
<th></th>
<th>Medical facility at subsidized rate</th>
<th>60-80%</th>
<th>60-80%</th>
<th>60-80%</th>
<th>60-80%</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Provident Fund</td>
<td>10%</td>
<td>10%</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>4</td>
<td>Financial support (Reimbursement facility: conference/conventio fee, TA/DA)</td>
<td>20%</td>
<td>25%</td>
<td>30%</td>
<td>30%</td>
</tr>
<tr>
<td>6</td>
<td>Maternity Leave</td>
<td>10%</td>
<td>15%</td>
<td>10%</td>
<td>20%</td>
</tr>
<tr>
<td>7</td>
<td>Duty Leave</td>
<td>50%</td>
<td>50%</td>
<td>50%</td>
<td>50%</td>
</tr>
</tbody>
</table>

** 1 and 2 welfare schemes are only for staff residing in campus.
Based on the Female: Male ratio, institute has taken following measures thus far:
- Separate Girls Common Room
- Separate Girls Recreational Hall/room
- Separate Gym timings for females
- Women’s cell a part of Disciplinary committee

6.3.6 Does the institution conduct any gender sensitization programs for its faculty?
The institution has not planned any specific gender sensitizing programs. However, the issues are conveyed in the orientation program for the new faculty. There is also a Grievance Cell headed by a senior female faculty member.

6.3.7 How does the institution train its support staff in better communication skills with patients?
- Recruitment of support staff is done based on certain and specific academic qualification based on their work field.
- Regular counselling and mentoring are being done by their supervisors for better communication with patients
- Skill enhancement discussions are regularly conducted by respective HODs.
- The Administrative Officer defines and describes the duties of the supporting staff while recruiting. The Administrative Officer supervises the interaction between the supporting staff and the patients and when needed they advise them heedfully.

6.3.8 Whether the research interests of teaching faculty are displayed in the respective departments?
Yes, the research interest of teaching faculty along with publication output is displayed on the display board outside the departments. Information regarding their research projects, publications are also regularly updated in the college website.

6.3.9 **Do faculty members mentor junior faculty and students?**
Yes, senior faculty members are directly or indirectly involved in mentoring junior faculty members. They are of great help and provide strength to fortify the professional/academic careers and other professional or personal requirements of the students. A mentorship program also facilitates faculty interaction with students/junior faculty.

6.3.10 **Does the institution offer incentives for faculty empowerment?**
Yes, the institute provides incentive for its faculty empowerment. Refer 6.3.1, 6.3.3 and 6.3.4.

6.4 **Financial Management and Resource Mobilization**

6.4.1 **What is the institutional mechanism available to monitor the effective and efficient use of financial resources?**
The effective and efficient use of financial resources is looked upon by the Institutional Finance Committee under the supervision of Chief Administrative Officer and the Director. An audit on annual basis is done by Institutional Finance Committee. Stock assessment of consumable and non-consumable items is conducted periodically by department Heads, Principal, and by Institutional Store committee in collaboration with Institutional Finance Committee. Also, there is an auditing of income generated though consultancy, once a year.

6.4.2 **Does the institution have a mechanism for internal and external audit? Give details.**
Yes, the institution has a mechanism for internal and external audit. The external audit is done mainly on the financial aspect by a chartered accountant. The internal audit is done at the department level and also at institutional level by various Institutional Committees.

6.4.3 **Are the institution’s accounts audited regularly? Have there been any audit objections, if so, how were they addressed?**
Yes, the institution’s accounts are audited regularly by Institutional Finance Committee under supervision of a Chartered Accountant. There have not been any objections till date.

6.4.4 **Provide the audited statement of accounts with details of expenses for academic, research and administrative activities of the last four years.**
Details of audited statement of accounts for expenses in academic, research and administrative activities for last four years (2011-2015) are mentioned in Annexure No. 19

6.4.5 **Narrate the efforts taken by the institution for resource mobilization.**

The major avenue for the source of the income is through:
- Admission Fee
- Tuition Fee
- Hostel Fee
- Transportation Fee
- Interest through FD’s
- Though all the treatments at Dental Hospital are at subsidised rate, small amount of revenue is also generated.

6.4.6 **Is there any provision for the institution to create a corpus fund? If yes, give details.**

The college does not receive any source of revenue/funds from external sources. The major source of revenue is described in 6.4.5. Any deficit is compensated for with assistance from the corpus of fund of the Management.

<table>
<thead>
<tr>
<th>Year</th>
<th>Balance in Income And Expenditure</th>
<th>Corpus Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>255581991.95</td>
<td>81079478.10</td>
</tr>
<tr>
<td>2014</td>
<td>30814246.00</td>
<td>76342266.00</td>
</tr>
</tbody>
</table>

6.4.7 **What are the free/subsidized services provided to the patients in the hospital?**

- All the treatment facilities in the hospital for all the stakeholders are at highly subsidized rate as compared to private health facilities.
- All the treatment facilities offered in the camps organised by the institution are free of cost.
- Majority of the treatment offered to patients referred from the camps are free.

6.4.8 **Does the institution receive fund from philanthropic organizations /individuals towards patient care? If yes, give details.**

As such the college doesn’t receive any fund from any organization but college provides services to carry out Health Camps and Health Melas organized by Philanthropic Organizations.
6.4.9 Do patients from other states/abroad come for treatment, reflecting the unique quality health care provided by the institution?
Yes, patients from other states come for treatment in the institute because of the eminent clinicians and the quality of work in a very cordial and congenial environment at highly subsidized rates.

6.5 INTERNAL QUALITY ASSURANCE SYSTEM

6.5.1 Does the institution conduct regular academic and administrative audits? If yes, give details.
Yes the institution conducts regular Academic and Administrative Audits, the details are as follows:

a. **Academic Audit**
   This audit is conducted by Academic Council on regular basis. The Council regularly submits its report to the management. The proper standard procedures are followed for the audit. Some of the actions taken include; annual calendar, timetable, amending the schedule of lectures for the whole year with specific assignments given to faculty etc.

b. **Administrative Audit**
   Issues concerning various administrative processes are regularly audited, monitored and supervised by related committees. A proper SOP is followed wherein the report/feedback is submitted to the management through the Principal. Actions related to infrastructure, security, safety and upkeep of premises including hostel and mess facilities are some examples.

6.5.2 Based on the recommendations of the Academic Audit, what specific follow up measures have been taken by the institution to improve its academic and administrative performance?
   - Based on the suggestion from the Academic Council’s, monthly schedule of the lecture is being displayed on the notice board of all the respective department, well in advance for information to the students.
   - Based on the students’ feedback on staff the academic council has briefed the respective faculty about their performances and the opinion of the students and advised to take necessary changes if required.
   - Implementation of Mentor-Mentee Program in the institute.
   - Based on the request from the faculty, the lectures halls are equipped with ICT facilities.
Training is given to the non-teaching staff i.e. how to deal with patients? How to assist doctors while performing procedures? How to take care of materials and equipment? etc.

6.5.3 Is there a central unit within the institution to review the teaching-learning process in an ongoing manner? Give details of its structure, methodologies of operations and outcome?

The Academic Council in the institution reviews the teaching-learning process. The following is the composition of Academic Council:

Chairman : Dr. Swatantra Agarwal
Co-Chairman : Dr. K. K. Chaubey
Members : Dr. Shashiprabha Tyagi
          Dr. N. N. Singh
          Dr. CH Sudheer Kumar
          Dr. Chaitra T. R.

Other committees such as IERB, Student and Patient Welfare Committee, Disciplinary Committee help in one way or the other for better implementation of teaching-learning process. (Annexure No. 8)

The institution is highly conscious of the quality of its academic programs. This is achieved through the following strategies:

Teacher Development through encouraging faculties to attend and organize CDE programs.

Learner centric, innovative, ICT based teaching methods continuous evaluation through a highly transparent and objective system.

Feedback mechanisms from both students and patients. Mentor-Mentee program also provides inputs on teaching-learning process.

Institute has a good evaluation system in practice which assesses the performance of teaching-learning process.

The administrative machinery of the college is democratic and decentralized. Based on the suggestions of the Academic Council, some of the faculty members are advised to improve their teaching skills and few faculties are instructed to work on their research achievements.

6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

NAAC Steering Committee (NAAC SC) of the Institute will be converted to IQAC after the NAAC peer team visit (Inspection), but other statutory Committees also oversee the institutionalizing quality assurance strategies and processes.
Institutional Quality Assurance Cell:
- Calendar for meetings, quality agenda and maintains its proceedings.
- Circulates its plan and steps for implementation.
- Conducts workshops, awareness programmes and special lectures on quality innovations.

6.5.5 **How many decisions of the IQAC have been placed before the statutory authorities of the institution for implementation?**
The NAAC SC and Institutional Committees periodically review the institutional quality and place it before the principal and management for approval and implementation. Few are mentioned below:
- Annual Report
- Formulation of Various Institutional Committees
- Feedback Systems
- Periodic Audits
- Introduction of Diploma Courses/Certificate courses.

6.5.6 **Are external members represented in the IQAC? If so, mention the significant contribution made by such members.**
No, as by now IQAC does not exist and NAAC SC does not consist of any external members.

6.5.7 **Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?**
The institute is planning to conduct a study on the incremental academic growth of students especially from disadvantaged sections of the society.

6.5.8 **Are there effective mechanisms to conduct regular clinical audit of the teaching hospital? Give details.**
Yes, clinical audits of the teaching hospital are conducted on a regular or day to day basis e.g.
- Students log book
- Clinical end posting viva
- Clinical end posting exam
- Case discussion and presentations on regular basis
Various committees’ like the Institutional Bio-Safety and Environment Committee, Institutional Ethics and Review Board, NAAC SC, Student and Patient Welfare committee meet on regular basis. (Annexure No. 8)
6.5.9 Has the institution or hospital been accredited by any other national/international body?

The Institute is recognized by DCI and University. The institute is certified with ISO 9001:2008 and is in the process of accreditation by NAAC.

6.5.10 Does the hospital have institutional and individual insurance schemes to cover indemnity claims?

No

*Any other information regarding Governance, Leadership and Management which the institution would like to include.*

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CRITERION VII
CRITERIA VII: INNOVATIONS AND BEST PRACTICES

7.1 ENVIRONMENT CONSCIOUSNESS

7.1.1 Does the institution conduct a Green Audit of its campus?
Green audit of the institute is conducted annually by the Institutional Bio-safety and Environment committee (IBEC) to monitor the development, growth and changes or threats (if any), to the maintenance and upkeep of the campus environment as a whole. Every opportunity is taken to ensure that all the stakeholders are appropriately educated, aware and informed about the care, maintenance and safety of the campus environment. Further, the IBEC monitors and assists in maintaining an eco-friendly environment. Initiatives have also been taken towards areas concerning energy conservation, bio-hazard or waste management and in maintaining the KDCRC as an eco-friendly campus. The waste management of the campus is conducted in collaboration with Sembramky Environment Management Pvt. Ltd., Ghaziabad.

7.1.2 What are the initiatives taken by the institution to make the campus eco-friendly?

<table>
<thead>
<tr>
<th>Topic</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy conservation</td>
<td>The college building is designed to utilize maximum natural light and air thus conserving energy. Installation of CFL and LED lights and use of BEE Energy Efficiency Rating appliances e.g. AC, refrigerators, heaters, geysers etc within the college premises ensures good energy conservation.</td>
</tr>
<tr>
<td>Use of renewable energy</td>
<td>-</td>
</tr>
<tr>
<td>Water harvesting</td>
<td>Two water harvesting plants are installed to conserve rain water, and the college has planned to build one more to utilize rain water from the staff residential buildings.</td>
</tr>
<tr>
<td>Solar panels</td>
<td>The IBEC has proposed to the management for installation of solar panel for lighting the college campus.</td>
</tr>
<tr>
<td>Efforts for carbon neutrality</td>
<td>The institution has taken various initiatives like proper maintenance of garden and planting trees along the boundaries of the campus. The college also follows a system of car pooling for students, staff and faculty members. Vehicles with excessive exhaust smoke are...</td>
</tr>
<tr>
<td><strong>Plantation - Botanical or Medicinal significance</strong></td>
<td>Several plants/trees with medicinal and botanical significance have been planted within the college premises. Efforts are on to increase the number of such plants.</td>
</tr>
<tr>
<td><strong>Bio-hazardous waste management</strong></td>
<td>The college undertakes the management of Bio-hazardous waste seriously. IBEC is in place to monitor proper management and disposal of Bio-hazardous waste. Institute has also hired a professional agency Sembramky Environment management Pvt. Ltd., Ghaziabad for managing the Bio-hazardous waste.</td>
</tr>
<tr>
<td><strong>E-waste management</strong></td>
<td>E-waste generated in the institute is monitored by the IBEC. Computer batteries are disposed off or exchanged through local dealers only.</td>
</tr>
<tr>
<td><strong>Effluent treatment and recycling plant</strong></td>
<td>The institute has installed one effluent treatment plant/sewage treatment plant in the campus to treat the residence waste waters from hostels and staff quarters. The college has also planned to install one more sewage treatment plant for the college and hospital.</td>
</tr>
<tr>
<td><strong>Recognition/certification for environment friendliness</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Any other (specify)</strong></td>
<td>Institute has also installed the necessary fire safety measures in the college and hostel areas. (Annexure No. 20)</td>
</tr>
</tbody>
</table>

### 7.1.3 How does the institution ensure that robust infection control and radiation safety measures are effectively implemented on campus?
- IBEC is in place to ensure robust infection control and radiation safety measures. Institute follows the guidelines laid down by IBEC in this regard. Regular inspections are also conducted by IBEC for monitoring its policies, guidelines and for ensuring that all the necessary directives have been complied with (as required).
- Institute has hired a professional agency Sembramky Environment Management Pvt. Ltd., Ghaziabad, for managing the Bio-hazardous waste. (Annexure No. 21)
- Faculty, students and non-teaching staff are regularly sensitized and informed about the various bio-hazardous waste disposal,
sterilization and disinfection protocols laid down by IBEC. For more information on this issue, posters depicting the bio-medical waste disposal are also displayed in all the departments with color coded bins.

- The Department of Oral Medicine and Radiology follows a strict protocol required for radiation safety like lead barriers, lead jackets, and also all the students and technical staff working in the radiology department are monitored for radiation exposures by using TLD badges.
- Institutional Students/Patients Welfare Committee takes initiative to vaccinate students and staff and interested patients against Hepatitis-B.

7.1.4 Has the institution been audited/accredited by any other agency such as NABL, NABH, etc.?  
The institute is regularly audited/accredited by statutory bodies like DCI & University. The institute is recently certified with ISO 9001:2018 and in the process of accreditation by NAAC.

7.2 INNOVATIONS

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the institution.

- **Curricular Aspect**
  Institute has started Mentor-Mentee program wherein 10-20 students in each department are under the supervision of single mentor for the complete program. Improvisation in Mentor-Mentee program was done for 2014 batch.

- **Teaching - Learning & Evaluation**
  - The institute has started Mentor-Mentee program for nurturing and proper guidance of the students.
  - PG students are regularly monitored and evaluated through their log books. All their presentations are evaluated on evaluation sheet by all faculty members.

- **Research and Consultancy**
  Short term studies and library dissertations are promoted. Students and faculties are encouraged for publishing their research work in National/International peer reviewed journals.

- **Infrastructure & Learning Resources**
  All the lecture halls are ICT enabled.
- The institute has taken subscription of EBSCOhost Online Research Database.

- **Student Support and Progression**
  The institute has created an Institutional Students Welfare Committee which looks into various aspects concerning the welfare of its students.

- **Governance, Leadership and Management**
  - The institute encourages and practices autonomy in its functioning at various levels of hierarchy and duties.
  - The college has re-arranged the time table (especially of the clinics) in such a way that the clinics are open from 9am to 4pm without any lunch break. The lunch break for the staff is also adjusted accordingly.
  - Patient feedback are regularly obtained to assess their satisfaction levels and for getting their suggestions. A grievance number is also displayed in the college on which patients can complain any inconvenience experienced by them.

7.3 **BEST PRACTICES**

7.3.1 Give details of any two best practices that have contributed to better academic and administrative functioning of the institution.

**FIRST BEST PRACTICE**

**Title of the Practice**
Nurturing and promoting in-house research.

**Objectives of the Practice**
- To augment interdisciplinary approach for advancement of research activities among students and faculties.
- To promote the exchange of scientific ideas and innovations between different departments.
- To augment interdisciplinary co-operation towards the management of dental problems.
- To develop student abilities of visualization and presentation of dental conditions/problems.
- To develop the skills of problem based learning among students and faculties.
- To emphasize the importance of research and instigate the alumni as well as the faculty to explore newer avenues.
To collaborate with other national/international laboratories/institute/universities/agencies.

The Context
The institute has, since its very conception, harbored an atmosphere and temperament which nurtures research. It has provided the best possible working environment to enable the students to pursue ideals of research oriented academics. The institute believes that research plays an integral part in the overall development and welfare of the society. Hence, it is of utmost significance to nurture and promote research oriented programs and scientific sessions.

The Practice
With an aim to strengthen the research initiative, the institute has taken several steps to encourage the research oriented programmes. These are as follows:

- The concept of “Sanchetna”, a forum where the postgraduate students from all specialties present special multidisciplinary and interdisciplinary cases which have been successfully treated in respective departments.
  - This scientific session is conducted every 3 months to provide ample opportunity to every postgraduate student to be able to be a part of it. The respective Heads of all the departments select the appropriate cases and then they are presented in front of the faculty as well as the students. In this forum, healthy discussions are carried out and alternative strategies which could have been implemented are put forth.
  - Sanchetna also invites and encourages presentations from fields other than dentistry to update and broaden the knowledge base of this institute.

- Publication of institute research journal “Chronicles of Dental Research”.

- Institute regularly conducts various interdisciplinary seminars, workshops, CDEs to enable the student as well as the faculty to imbibe newer ideas and skills related to the field.

- Identify nationally and internationally renowned faculty and encourage them to join the institute so that the students may benefit from their academic and clinical skills.

- Allotment of dissertation topics in keeping with the times and clinically oriented ones which can improve the quality of services provided in future.

- To achieve recognition worldwide through the publication of research articles, scientific presentation in national and international platforms, and competing for national and international awards.
Allotment of short studies on current topics to develop a positive attitude for research.

The institute and department collaborate with external agencies such as CDRI-Lucknow, MIT-Moradabad, AIIMS etc. for utilization of their facilities.

All the researchers conducted in the institute are self-funded but institute promotes the research by providing subsidy to the research subjects, by providing infrastructural support, necessary equipment/materials and a conducive research environment.

Evidence of Success
The evidence that the concept of research oriented academic environment has been successful in creating an impact is as follows:

- Development of a research conducive environment.
- Creation of IERB.
- The concept of short studies has been taken up widely and in every department postgraduates have been encouraged to take up at least one short term study along with their thesis.

<table>
<thead>
<tr>
<th>Department</th>
<th>Short Study</th>
<th>Thesis</th>
<th>Total (Last 4 Years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservative Dentistry &amp; Endodontics</td>
<td>07</td>
<td>21</td>
<td>28</td>
</tr>
<tr>
<td>Oral and Maxillofacial Surgery</td>
<td>06</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>Oral Medicine and Radiology</td>
<td>03</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td>Oral Pathology &amp; Microbiology</td>
<td>35</td>
<td>12</td>
<td>47</td>
</tr>
<tr>
<td>Orthodontics &amp; Dentofacial Orthopaedics</td>
<td>04</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Pedodontics and Preventive Dentistry</td>
<td>06</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>Periodontology</td>
<td>06</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>Prosthodontics and Crown &amp; Bridge</td>
<td>05</td>
<td>22</td>
<td>27</td>
</tr>
<tr>
<td>Public Health Dentistry</td>
<td>17</td>
<td>12</td>
<td>29</td>
</tr>
</tbody>
</table>

(Annexure No. 10)
Significant change in faculty research publications in various national and international journals has been observed.

<table>
<thead>
<tr>
<th>Department</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservative Dentistry &amp; Endodontics</td>
<td>16</td>
<td>11</td>
<td>15</td>
<td>13</td>
<td>55</td>
</tr>
<tr>
<td>Oral and Maxillofacial Surgery</td>
<td>05</td>
<td>13</td>
<td>02</td>
<td>03</td>
<td>23</td>
</tr>
<tr>
<td>Oral Medicine and Radiology</td>
<td>04</td>
<td>05</td>
<td>05</td>
<td>03</td>
<td>17</td>
</tr>
<tr>
<td>Oral Pathology &amp; Microbiology</td>
<td>01</td>
<td>04</td>
<td>14</td>
<td>10</td>
<td>29</td>
</tr>
<tr>
<td>Orthodontics &amp; Dentofacial Orthopaedics</td>
<td>02</td>
<td>06</td>
<td>15</td>
<td>10</td>
<td>33</td>
</tr>
<tr>
<td>Pedodontics and Preventive Dentistry</td>
<td>13</td>
<td>32</td>
<td>23</td>
<td>22</td>
<td>90</td>
</tr>
<tr>
<td>Periodontology</td>
<td>09</td>
<td>09</td>
<td>10</td>
<td>09</td>
<td>37</td>
</tr>
<tr>
<td>Prosthodontics and Crown &amp; Bridge</td>
<td>17</td>
<td>20</td>
<td>09</td>
<td>07</td>
<td>53</td>
</tr>
<tr>
<td>Public Health Dentistry</td>
<td>15</td>
<td>14</td>
<td>11</td>
<td>12</td>
<td>52</td>
</tr>
</tbody>
</table>

(Annexure No. 22)

Increase in student’s publication in various peer reviewed national/international journals has been observed.

<table>
<thead>
<tr>
<th>Department</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservative Dentistry and Endodontics</td>
<td>04</td>
<td>04</td>
<td>07</td>
<td>06</td>
<td>21</td>
</tr>
<tr>
<td>Oral Medicine and Radiology</td>
<td>06</td>
<td>04</td>
<td>05</td>
<td>02</td>
<td>17</td>
</tr>
<tr>
<td>Oral Pathology and Microbiology</td>
<td>00</td>
<td>03</td>
<td>07</td>
<td>04</td>
<td>14</td>
</tr>
<tr>
<td>Orthodontics and Dentofacial Orthopaedics</td>
<td>03</td>
<td>01</td>
<td>04</td>
<td>03</td>
<td>11</td>
</tr>
<tr>
<td>Pedodontics and Preventive</td>
<td>02</td>
<td>06</td>
<td>11</td>
<td>04</td>
<td>23</td>
</tr>
</tbody>
</table>
Owing to the vast number of interdisciplinary seminars and discussions, there has been a dramatic change in the outlook of faculty. Newer and more balanced treatment modalities are being put into practice resulting in greater patient satisfaction levels.

Increase in student’s presentations (poster/paper) in various conventions/conferences/CDEs has been observed.

(Annexure No. 23)

Felicitation and recognition of our students at various national academic platforms i.e. best paper and poster awards in various national and state conferences. (Annexure No. 24)
Greater participation by our faculty in national and state level conferences, scientific sessions and workshops.

Advanced dissertations that involve suggestions, services and facilities of other research institutes.

Procurement of dental equipments that work on advanced technology e.g. Implant unit, LASER, Peizounit etc. to favor and promote future research.

Newer and more innovative techniques in various specialties of dentistry are being implemented in routine practice.

Problems encountered and Resources Required
Some of the major problems encountered are as follows:

- Motivating students and faculty to generate high levels of research attitude.
- Minimal awareness of methodology pertaining to obtaining research funding from various agencies i.e. ICMR, DBT
- Timely publication of institute research journal “Chronicles of Dental Research”.
- Limited pool of research oriented/skilled manpower.
- Allocation of funds for conducting various conferences/conventions/CDEs/ workshops etc.

SECOND BEST PRACTICE

Title of the Practice
Welfare of the key stakeholders (students)

Objectives of the Practice

- To provide the students with a safe, secure, pleasant and conducive living environment.
- To provide an environment which promotes professional growth and skills
- To provide mentoring to and development of slow and fast learners.
- To provide students with personal care and attention in each department.
- To encourage and involve students in various committees for decision making and management.
- To obtain regular feedback from students on all institutional activities so as to implement changes.
- To provide health care facilities for students.
- To provide ample opportunities for excelling in various extra-curricular activities.
- To provide opportunities for spiritual well-being and growth.
The Context
The path in the pursuit of knowledge is vast and varied. The institute, in addition to being a place of knowledge, also believes in nurturing the students in a comprehensive and holistic manner. In pursuant with that philosophy every effort is made both by the management and faculty to provide the students with a home away from home.
The college caters to the varied requirements of multi-socio-ethnic backgrounds and strata of the society of students. The institute ensures that every care is taken in treating the students who study /work and stay in the institute and ensures that prompt and state of the art dental care is provided to them at nominal rates keeping in mind that their rights and privileges are upheld at all times. Every effort is made to look after the welfare of the faculty and their families so that they can work in a harmonious and cheerful environment.

The Practice
The working environment also plays an important role in the development of an individual, not only are the young minds moulded academically but also their physical and spiritual development are well looked after. Care and welfare of the students is central to the work ethos of the institute.

❖ Safety and Security
- With the rising crime rates outside, the institute places utmost importance to providing a safe and secure environment with a closely guarded campus where outsiders are not allowed inside without proper identification.
- Separate hostels facilities for boys and girls students.
- Students are not allowed to own vehicles and transport is provided by the institute, if required.
- The institute has planned to install more CCTV camera for close monitoring of campus activity.

❖ Mentor-Mentee Program
With the adage that every child is special, every student is assigned a mentor from the faculty to ensure that the abilities of the student are developed to the maximum thus helping him/her make a mark in the society.

❖ Grievance Committee and Anti-Ragging Committee
- Students are encouraged to put up their grievances to the Committee and also suggest plausible remedial measures, which develops into them a feeling of belonging to the institute and helps foster a family atmosphere within the institute.
The first year students are well looked after and every effort is made to ensure a ragging free campus with the names of the committee members displayed prominently within the campus.

- The students are encouraged to approach the members at any time of the day in case of any harassment.

**Hostel and Mess Committee**

- This Committee has been instituted to ensure that the students are provided with adequate boarding and lodging facilities with adequate nutritious diet.
- Regular sampling of the food provided to the students is undertaken by the Committee members to ensure proper hygiene and quality of food.
- All hostel facilities provided to the students are monitored through regular inspections by the Committee members.

**Sports Facilities**

- The institute provides good sporting facilities to the students
  - Basketball, Cricket, Football and Badminton facilities are provided for outdoor sports while Table Tennis, Carrom Board and Chess are provided indoors.
- The students are also encouraged to take part in various intra/intercollege tournaments in the city to imbibe and develop the spirit of sportsmanship.
- The Committee for Extra-curricular Activities also actively promotes all extra-curricular events and programs.

**Feedback**

The process of academic development is not confined to lectures and tutorials alone. The students also take an active part in enhancing the study pattern. Regular feedback is sought from the students via feedback forms to better understand and improve the teaching methodology and curriculum. Alumni also participate in feedback process.

**Sterilization**

Emphasis is placed on proper sterilization procedures in all departments and a record is maintained for the same to ensure quality dental care. This further ensures safety of patient, students and faculty.

**Spiritual Wellbeing and Growth**

Institute has also constructed a temple and community hall in college premises to cater to spiritual needs of the students.

**Health Care Facilities**

Treatment and medicines are provided to the students at highly concessional rates. Institutional Students Welfare Committee takes initiative to vaccinate students and staff and interested patients against Hepatitis-B.
Decision Making Process
Students are actively involved in various committees through which they participate in various decision making processes. Some of the committees involving students are as follows:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Anti-Ragging Committee</td>
</tr>
<tr>
<td>2</td>
<td>Committee for Extra Curricular Activity</td>
</tr>
<tr>
<td>3</td>
<td>Disciplinary Committee</td>
</tr>
<tr>
<td>4</td>
<td>Institutional Hostel and Hospitality Committee</td>
</tr>
<tr>
<td>5</td>
<td>Institutional Students/Patients Welfare Committee</td>
</tr>
<tr>
<td>6</td>
<td>Student Cell</td>
</tr>
</tbody>
</table>

Evidence of success
The evidence of success achieved is as follows:

- Greater participation of the students as evidenced by the filling up of all the seats at both Under Graduate and Post Graduate levels.
- Increased confidence among students.
- Increase in academic performance and output.
- Development of bonding/camaraderie between students of all strata.
- No incidence of ragging.
- Greater participation by all students in academic activities.
- Increased participation by all students in the extra-curricular activities.
- Decreased incidence of violence/dissatisfaction amongst students.
- Parents are satisfied with the academic growth of their wards.
- Increase in happiness quotient of stakeholders specially students.

Problems encountered and resources required
Problems encountered are myriad & unique, and every effort is made to overcome them. Some of the prominent problems encountered are as follows:

- High standards of living of certain section of students.
- Adjusting to the needs of students from various backgrounds.
- Constant and close monitoring of students activities, moods and behaviour.
- Convincing the students the need to stay in a protected and secure environment.
- Providing vide array of facilities (academic, extra-curricular, personal, spiritual etc.)
- Providing high quality health care treatment at affordable rates.
- Getting constructive and reliable feedback.
 Satisfying the food culture of students from different regions of India.
 Difficulty of the students from different parts of India to adjust to the local environmental conditions.
 Distraction of young minds from academics/extra-curricular/sports activities due to electronic invasions and changes in socio-economics value in society.

Any other information regarding Innovations and Best Practices which the institution would like to include.

*****************************************************************************
# LIST OF ANNEXURE

<table>
<thead>
<tr>
<th>Document</th>
<th>Annexure No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Affiliation Certificate</td>
<td>1</td>
</tr>
<tr>
<td>Recognition Certificates</td>
<td>2</td>
</tr>
<tr>
<td>List of Faculty with Designation</td>
<td>3</td>
</tr>
<tr>
<td>List of Ancient Scriptural Practices</td>
<td>4</td>
</tr>
<tr>
<td>List of UG &amp; PG Students opted KDCRC through UPCAT- DENTAL/MDS in Last Four Years</td>
<td>5</td>
</tr>
<tr>
<td>UG &amp; PG (Including Departmental, Laboratory And Clinical) Time Table</td>
<td>6</td>
</tr>
<tr>
<td>Procedure /Clinical Cases/Surgeries Carries out by Students</td>
<td>7</td>
</tr>
<tr>
<td>Institutional Committees and their Composition</td>
<td>8</td>
</tr>
<tr>
<td>List of Collaborative Research</td>
<td>9</td>
</tr>
<tr>
<td>List of MDS Dissertations with Names of Guides and Students</td>
<td>10</td>
</tr>
<tr>
<td>List of Faculty Research</td>
<td>11</td>
</tr>
<tr>
<td>List of Interdisciplinary Research</td>
<td>12</td>
</tr>
<tr>
<td>List of Publications Department</td>
<td>13</td>
</tr>
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