

**EVALUATIVE REPORT OF THE DEPARTMENT OF  
ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

- 01. Name of the Department:** Orthodontics and Dentofacial Orthopaedics
- 02. Year of establishment :** 1992
- 03. Is the department part of a college/ Faculty of the University?**
- The department is a part of DAPMRV Dental College, affiliated to Rajiv Gandhi University of Health Sciences.
  - The department caters to III BDS & IV BDS, MDS, PG Diploma, Ph D in the subject of Orthodontics and Dentofacial Orthopaedics.
  - The department has nine teaching faculty, of which seven are recognized Post-Graduate teachers and two Ph D guides.
  - The department caters to the orthodontic treatment needs of the local population treating approximately 1200 to 1300 patients a month.
- 04. Names of programs offered:** BDS, MDS, P G Diploma, Ph D.
- 05. Interdisciplinary programs and departments involved:**  
Joint clinics in collaboration with department of
- Oral Medicine and Radiology: for incorporating the recent advances in radio imaging and diagnosis of TMJ problems, facial asymmetries, cleft lip/palate etc.
  - Oral and Maxillofacial Surgery: to cater to a wide spectrum of patients requiring Orthognathic surgeries, cleft lip/palate rehabilitation, patient with syndromes, TMJ ankylosis, etc
  - Periodontics: Adult patients with periodontally compromised conditions due to systemic diseases like diabetes mellitus, hypertension, trauma from occlusion etc.
  - Paedodontics: cases pertaining to preventive and interceptive orthodontics
  - Prosthodontics: Adjunctive orthodontics for facilitating placement of prosthesis and implant dentistry.
  - Conservative Dentistry: cases requiring interdisciplinary dental treatment like orthodontics and aesthetic dentistry.
  - Basic sciences departments participate in postgraduate training program focusing on the specialty specific “applied basic sciences topics”.
  - Public Health Dentistry: camps are conducted at rural and satellite centres.
- 06. Courses in collaboration with other universities, industries, foreign institutions etc:**
- Faculty training: **Fellowship at Taipei University, Taiwan.**
  - Fellowship program at Showa University School of Dentistry, Tokyo, Japan.
  - Four senior faculty members attended training program on “Lingual Orthodontics” at Institute of Odonto-Stomatology , **Hanoi, Vietnam.**
- 07. Details of programs discontinued, if any, with reasons-** None

**08. Examination system:**

Annual examination conducted by the University twice a year for regular and odd batches of BDS, MDS and PG Diploma.

This is substantiated by internal assessments as prescribed by the parent university and periodic topic-wise tests, mock exams with examiners from other Dental colleges and MCQ preparations to instill confidence among students.

**09. Participation of the department in the courses offered by other departments**

Adjunctive orthodontic treatment to facilitate other treatment procedures like implant placement, esthetic dentistry, orthognathic surgery, cleft lip and palate, treatment of trauma from occlusion and temporomandibular disorders.

**10. Number of teaching posts sanctioned, filled and actual (professors/ Associate professors/ Asst.professors/ others)**

Designation	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	04	05	05
Assistant Professors (Readers)	02	02	02
Lecturers	02	02	02

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of years of experience
Dr. Dinesh M R	MDS	Professor and Principal	Orthodontics	22yrs
Dr. Amarnath B.C	MDS	Professor and Head of the Department		17 yrs
Dr. Dharma R.M	MDS	Professor		15 yrs
Dr. Prashanth C.S	MDS	Professor		13 yrs
Dr. Akshai Shetty K R	MDS, M ORTH RCS (Edin)	Professor		11 yrs
Dr. Manjunath Hegde	MDS	Reader		10 yrs
Dr. Vijayalakshmi P.S	MDS, M ORTH CS (Edin), DNB	Reader		8 yrs
Dr. Roopak Mathew David	MDS	Lecturer		6yrs 6months
Dr. Pramod K.M	MDS	Lecturer		4yrs 9months

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors -**  
Not Applicable

**13. Percentage of classes taken by temporary faculty, program-wise information-** Not Applicable

**14. Program wise student teacher ratio**

BDS	MDS/ PG Diploma	PhD
4:1	1:1	

**15. Number of academic support staff (technical) and administrative staff:**

Staff	Sanctioned	Filled	Actual
Technician	01	01	01
Attenders	02	02	02

**16. Research thrust areas as recognized by major funding agencies:**

The department having been involved in clinical work of seventeen post-graduate students and nine teachers is always looking out for clinical innovations.

In the initial years of PG Program our research was mainly on material sciences and from the year 2004 onwards most of the research work involving post graduates and staff is related to the contemporary happenings in the field of etiology of malocclusion and orthodontics, ie genetics. Our department is one of the first dental departments in South East Asia to target 6 genes (SNP) in the same population. These researches have been completed, published and presented all over the world.

To name a few researches :

- Genetic polymorphisms in causation of Cleft lip and Palate : MSX 1, TGF B3,IRF6, MTFHR gene variants.
- PCR in relation to the tooth Agenesis: PAX 9, MSX 1
- Genetic determinants of mandibular ramus height : I 526L
- In recognition of our work in the field of genetics and Orthodontics two of our senior faculty members have received grants for presenting their research work at reputed International Forums like
- “Cleft 2009 at 11<sup>th</sup> International Congress on Cleft lip and related Craniofacial anomalies at Fortaleza/Brazil from September 10<sup>th</sup> to 13<sup>th</sup> 2009 to Dr. Akshai Shetty K.R by our parent University, Rajiv Gandhi University of Health Sciences
- The 111<sup>th</sup> American Association of Orthodontists (AAO) Annual Session held in Chicago, Illinois from May 13<sup>th</sup> to 17<sup>th</sup> 2011 to Dr. Dharma R.M by DST (Department of Science and Technology)
- These researches have been funded by
  - ❖ DST
  - ❖ RGUHS
  - ❖ DAPM R V Dental College.

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) total grants received project wise –Nil**

**18. Interinstitutional collaborative projects and associated grants received**

National Collaboration	International Collaboration
Nil	Nil

**19. Department projects funded by ICMR; DST-FIST; UGC-SAP/CAS; DPE;DBT; ICSSR; AICTE; etc; total grants received-**

- Oral Research Paper at 11<sup>th</sup> International Congress on Cleft lip & Palate and related craniofacial anomalies, Fortaleza, Brazil by Dr. Akshai Shetty K R
- September 10<sup>th</sup> -13<sup>th</sup> 2009; RSST Rs.50,000/-
- DST: Financial assistance given to Dr. Dharma.R.M for attending the annual session of American Association of Orthodontists, Illinois, Chicago, USA and presenting a scientific paper from 13<sup>th</sup> to 17<sup>th</sup> May 2011 from Department of Science and Technology, Ministry of Science and Technology , Govt of India. Rs. 65,000/- RGUHS Rs. 15,000/-; RSSST Rs. 15000/-
- RSST: financial assistance given to Dr. Amarnath B.C, Dr. Prashanth C.S each by the Rashtreeya Sikshana Samithi Trust, (RSST) of Rs. 30,000/- for participating in Hands on Course on “Lingual Orthodontics” in Hanoi, Vietnam in January 2009.

**20. Research facility/ centre with**

- State recognition: Genohelix, Vittal Mallya Research Foundation.
- National recognition: Nil
- International recognition: 3M Innovation Centre, Electronic city, Bangalore

**21. Special research laboratories sponsored by/ created by industry or corporate bodies:**

3M Innovation Centre, Electronic city, Bangalore

**22. Publications**

- Number of papers published in peer reviewed journals ( National / International)

National journals	International journals	Total
20	30	50

Number listed in International Database: 42 publications are listed  
Citation Index – Range 1-2

Dr. Dinesh – 2

Dr. Dharma – 1

Dr. Akshai – 2

Dr. Vijayalakshmi – 1

- SNIP : Refer staff Publication
- SJIR: Refer staff Publication
- Impact factor: Range 0.515 to 2.2

Dr. Dinesh : 0.924

Dr. Dharma : 0.515

Dr. Akshai : 2.200

- H-index:

- Dr. Dinesh – 33
- Dr. Prashanth – 22
- Dr. Akshai –39
- Dr. Vijayalakshmi – 25

**23. Details of patents and income generated:** Nil

**24. Areas of consultancy and income generated:** Nil

**25. Faculty selected nationally/internationally to visit other laboratories/institutions/ industries in India and abroad:**

<b>Name</b>	<b>Industries/institutions</b>	<b>Country</b>
Dr. Dinesh M R	-Showa University; -NSK lab, Japan. May 2012	Japan
Dr. Amarnath B.C	-Institute Of Odonto-Stomatology , Hanoi,Vietnam	Vietnam
Dr. Dharma R. M	Head office of American Association of Orthodontists, World Federation of Orthodontists, St. Liouis, Missouri. University of Illinois , Chicago Institute Of Odonto-Stomatology , Hanoi,Vietnam	USA Vietnam
Dr. Prashanth C.S	Institute Of Odonto-Stomatology , Hanoi,Vietnam	Vietnam
Dr. Akshai Shetty	-Department of Orthodontics, Yonsei University, South Korea - Institute Of Odonto-Stomatology , Hanoi,Vietnam	-Korea -Vietnam

**26. Faculty serving in National committee**

<b>Faculty</b>	<b>National committee</b>
Dr. Dinesh M R	Academic Council – Member RGUHS PG Board of Studies, RGUHS UG/PG Board of Studies, Siddhartha University, Tumkur Academic Council Member, Siddhartha University, Tumkur
Dr. Amarnath B.C	Scientific Committee member, SRM University, Chennai
Dr. Manjunath Hegde	Scientific Committee member, SRM

	University, Chennai
Dr. Pramod	Member, Faculty of Dentistry, RGUHS

**International committee:** Nil

**Editorial Board:** Nil

**27. Faculty recharging strategies (refresher /orientation programs, workshops, training programs and similar programs)**

- Faculty attend orientation programs conducted by the Rajiv Gandhi University of Health Sciences, Bangalore.
- Faculty attend the training of teachers (TOT) programs conducted by Rajiv Gandhi University of Health Sciences, Bangalore.
- Faculty training program conducted by FAIMER August 2011
- Members of the faculty are encouraged to attend conferences, continuing education programs and workshops related to the specialty.
- The department of orthodontics has regularly organized CDE and Hands-on courses from International faculty like Dr. Eric Liou, Dr. Hee-Moon Kyung
- Faculty have undergone Hands-on experience on extraction of DNA .

**28. Student projects**

- Percentage of students who have taken up in-house projects including inter-departmental projects- 100%.
- Percentage of students doing projects in collaboration with other universities/ industry/ institutes-80%

**29. Awards/ recognitions received at the national and international level by**

**Faculty:**

**Doctoral/post doctoral fellows:**

Name of the faculty	Awards	
Dr. Dinesh M R Dr. Amarnath B.C Dr. Dharma R.M Dr. Prashanth C.S Dr. Akshai Shetty K R Dr. Manjunath Hege Dr. Vijayalakshmi P.S Dr. Roopak Mathew David Dr. Pramod K M	Fellow of World Federation of Orthodontists FWFO	November 2010
Dr. Dharma R M	Member of American Association of Orthodontists	
Dr. Vijayalakhmi P S	FDSRCS Fellow of Dental Surgery of Royal college of surgeons, Edinburgh	April 2013

Dr. Vijayalakhmi P S	Indian society of Dental Research conference, at chennai Jan 2011	Best scientific paper
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**Students**

Name of the student	Conference	Paper/Poster
Dr. Mukund Jhalavadiya	Indian Orthodontic Conference	Best poster presentation 2010
Dr. Asavari Desai	Post graduate PG convention , IOS	Best Paper 2011
Dr. Kritika M J	ISDR conference Jan 2011	Best paper 2011
Dr. Priyanka Saokar	ISDR conference Jan 2011	Best Poster 2011

**30. Seminars/ Conferences/ Workshops organized and the source of funding (national/international) with details of outstanding participants if any.**

Sl No	Conference/workshop/seminars	Source of funding	Outstanding participants
1.	Hands-on workshop on "Lingual Orthodontics" 6 <sup>th</sup> -10 <sup>th</sup> July 2010 at DAPM R V Dental College and Hospital	RGUHS: 15,000/- KSDC: 10,000/-	Dr. Hee Moon Kyung Heads of the departments of more than 10 dental colleges
2.	Molding smiles NAM 2010 4 <sup>th</sup> October 2010 Bangalore Institute of Dental Sciences and Hospital		Course director and Guest Speaker Dr. Akshai Shetty K R
3.	Hands-on workshop on "Lingual Orthodontics" 12 <sup>th</sup> -15 <sup>th</sup> December 2011 at DAPM R V Dental College and Hospital	RGUHS: 15,000/- KSDC: 10,000/-	Dr. Hee Moon Kyung PG students and staff of various dental colleges across India
4.	CDE programme on " Current trends in Orthodontics" 16 <sup>th</sup> Dec 2011 At DAPM R V Dental College		Dr. Hee Moon Kyung Dr. Lakshmi Thalanki
5	Naso alveolar moulding Pre convention course director At 9 <sup>th</sup> National PG convention by Indian Society of Pedodontics and Preventive Dentistry , Virajper, Coorg 23 <sup>rd</sup> to 25 <sup>th</sup> Feb 2012		Dr. Akshai Shetty K R
6	CDE programme on Clear		Department faculty

Aligner on May 15 <sup>th</sup> 2012	and PG students
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**31. Code of ethics for research followed by the departments:**

Department adheres to the code of ethics prescribed by the international review boards. All the research projects in the department goes through the strict scrutiny of the Institutional review board, ethical committee. The suggestions of the institutional review board are incorporated in the research protocol and strictly followed.

**32. Student profile program-wise:**

Name of the program	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
BDS 4 <sup>th</sup> Year	50	11	39	100%	99%
MDS	03	01	02	100% (May 2013)	
PG Diploma	01	01		100% ( May 2013)	

**33. Diversity of Students**

Name of the program	% of students from the same university	% of students from other universities within the state	% of stud nets from universities outside the state	% of students from other countries
BDS				
MDS	40%	40%	20%	
PG Diploma	100%			

**34. How many student have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise. Nil**

**35. Student Progression**

Student progression	Percentage against enrolled
UG to PG	33% ( in 2013 entrance exam)
PG to M. Phil, DM/M Ch/DNB	Nil
PG to Ph.D	Nil
Ph.D to Post-Doctoral	Nil
Employed Campus selection Other than campus recruitment	
Entrepreneurs	



**36. Diversity of staff**

<b>Percentage of faculty who are graduates</b>	
Of the same university	55%
From other universities within the State	33%
From Universities from other States	11%
From Universities outside of the country	Nil

**37. Number of faculty who were awarded M.Phil., DM, M Ch, Ph.D., D.Sc and D. Litt during the assessment period.- Nil**

**38. Present details of departmental infrastructural facilities with regard to**

**a) Library:** The department library has a carpet area of 261 sqft, is well stocked with 185 books and 176 titles.

**b) Internet facilities for staff and students**

Department has high speed internet connection which is made accessible for all students and staff.

**c) Total number of class rooms**

Four well equipped classrooms with an overhead projector and provision for laptops are available for undergraduate teaching. Department also has a 500 sqft state of the art seminar room which is used for postgraduate seminars and journal clubs.

**d) Class rooms with ICT facility and “smart’ class rooms: 04**

**e) Students’ laboratories:**

- separate wire bending lab for undergraduate students
- dry and wet labs with state of the art equipments for contemporary training of UG/PG students.

**f) Research laboratories: Nil**

**30. List of doctoral, post-doctoral students and Research Associates**

- **From host institution/ University: Nil**
- **From other institutions/universities: Nil**

**31. Number of post graduate students getting financial assistance from University –Nil**

**32. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology.**

Yes, Assessment exercise is done by RGUHS and DCI annually.

As per the guidelines of RGUHS, LIC inspections are carried out annually. Dental Council of India also conducts inspections annually and accordingly the new programs in the department are implemented.

**33. Does the department obtain feedback from Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

Periodical staff meetings to discuss the implementation of parent university syllabus and teaching beyond syllabus is held. The Head of the

department chairs the meeting and moderates the feedback from the faculty and student members of the department.

The feedback is used as a guideline for formulating and updating UG and PG programs to contemporary level.

Journal clubs and seminar evaluation forms are filled by the faculty to assess the academic performance of the students.

**Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

Students are encouraged to give their feedback on the teaching methodology followed in the department. These feedback opinions are assessed by the faculty in consultation with the head of the department and students themselves. The newer teaching learning methodologies like daily text book reviews and topic wise MCQ's banks have been incorporated.

Students are encouraged to discuss their internal assessment answer scripts and their performance in clinical assessment examination on one to one basis with their respective mentors. These discussions help the faculty understand the fears and misconceptions of the students and take appropriate corrective steps from time to time.

**Alumni and employers on the programs offered and how does the department utilize the feedback?**

The department takes feedback from the alumni members who are a part of our specialty regarding the improvement of teaching modules. The best of the practices are taken into consideration to improve the teaching modules. Alumni meets with present post graduate students and staff are held twice a year which has resulted in proactive participation of the post graduates in formulation and implementation of effective teaching learning methodologies.

**34. List the distinguished alumni of the department ( maximum 10)**

- Dr. Shashanka P Kumar, Reader, Dept of orthodontics, VSDC, B'lore
- Dr. Rakesh Rao Annamaneni, Reader, Dept of Orthodontics, Sri Sai Dental College, Vikarabad.: an astute clinician and a flair for speeches.
- Dr. Gautam Reader, Dept of orthodontics, VSDC, B'lore
- Dr. Varun Prathap Singh, WHO co-ordinator.
- Dr. Sonahita Agarwal, Senior Lecturer, Sardar Patel post graduate institute of dental and medical sciences, Lucknow.
- Dr. Kritika M J, Senior Lecturer, KVG dental college and Hospital, Sulia
- Dr. Asavari Desai, Senior Lecturer, CODS, Mangalore.
- Dr. Nidhi Rathore, Senior Lecturer, Mahatma Gandhi Dental college, Jaipur
- Dr. Naveen Kumar, Assistant Dental Surgeon, Karnataka State Health Dept.
- Dr. Mukund Jhalavadiya, in private practice, Gujurat

**35. Give details of student enrichment programs (special lectures/workshops/seminar) involving external experts.**

- Mock exams for PG's from external evaluators performing both clinical, practical and theory evaluation and stress upon the possible areas of improvements well ahead of University exams.
- Two hands on workshops from international faculty on the current trends in orthodontics ie "lingual orthodontics" in 2010 and 2011
- One day lecture course from faculty from other Universities 16<sup>th</sup> Dec 2011
- One day workshop on Clear path aligners for the PG students to update with latest technological advancements in orthodontics.

**36. List the teaching methods adopted by the faculty for different programs including clinical teaching.**

The teaching methods followed and focused are as per the curriculum laid down by the RGUHS since we are affiliated to this university.

**UG PROGRAM:**

- Lecture classes with power-point presentations.
- Briefing about latest technological advancements using Youtube videos.
- Various techniques and procedures illustrated using Morph softwares.
- Clinical case discussions.
- Demonstration of wire bending in Practical classes.
- WIFI access to all the students

**PG PROGRAM:**

- Text book reviews.
- Journal club discussion
- Seminars
- Guiding the students in Clinical Work
- Short seminars.
- Panel discussions regarding various treatment mechanics
- MCQ bank to stimulate the student's thinking
- Review of the recently published research in International and Pubmed Indexed Journals.
- Guiding students in scientific paper, poster presentations in Speciality Conferences and PG conventions.
- Guiding the students in their Original research (Dissertation work)
- Weekly assessment tests on specific topics to all the post-graduates (written)
- WiFi access to the students
- Inter disciplinary/departmental case discussions, Joint Clinics.

**37. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?**

- Regular lecture classes, practical demonstrations and clinical case discussions are held according to the timetable for undergraduate students.
- Undergraduate seminars are encouraged during their departmental postings.

- Undergraduates are assessed at the end of the clinical postings for the clinical skills and their ability to elicit a proper history and arrive at the diagnosis and treatment planning.
- Postgraduate students are assessed for their learning skills and knowledge by having regular case discussions, chair-side discussions. Panel discussions for treatment planning.
- Topic wise textbook reviews and MCQ's formation is done to ensure proactive participation of post graduate students.
- Journal clubs and seminar evaluation forms filled by faculty are discussed with the respective students with the presenter to stress upon their possible areas of improvement which is found to be very effective.

**38. Highlight the participation of students and faculty in extension activities.**

**Students:**

- Post graduate students participate in the National Specialty conference, and Post graduate conventions.
- PGs present scientific posters and papers at these forums.
- Participation in Quiz programs.
- Active participation in sports and cultural activities.
- Attending CDE programs for their enrichment
- Students take part in cultural and sports activities of the college and also take part in inter-institutional cultural and sports programs
- Some students are actively working in NGO's which are a part of social programs like child education, rehabilitation of stray pets, etc.
- Student members are also a part of various cultural groups who perform at national and international forums (bharatanatyam performance etc)

**Faculty**

- Faculty members actively take part in various cultural and sports events conducted by the institution.
- Faculty take part in various CDE programs to update their knowledge.
- Faculty members of the department are often a part of the organizing committee of national conferences and conventions.
- Faculty members are appointed as external and internal examiners for under-graduate/postgraduate examinations.
- Faculty members are also a part of University committees such as PhD committee and curriculum development committee.
- The head of the department is appointed as an inspector of Dental Council of India to inspect other dental colleges.
- The staff have authored many newspaper articles
- Staff have given talks in the television channels.

**39. Give details of “beyond syllabus scholarly activities” of the department.**

- Basic training in clinical photography and computer applications in diagnosis and treatment planning
- Use of morph software for patient motivation
- PG students are trained in the application of diagnostic, treatment planning and prediction software
- Integration of latest orthodontic techniques into both pre-clinical and clinical curriculum of PG students.
- Since 2009 most of the research carried out by post graduate students are contemporary in nature, like genetics, CBCT etc.
- Students are encouraged to publish their research projects in national/International forums
- MCQ formation, textbook review, short seminars, panel discussions for contemporary treatment planning involving interdisciplinary staff as and when required.
- Evidence based treatment plans with relevant references, case reports to improve the quality of treatment planning and its results.
- Exposure to Contemporary orthodontic materials and techniques stressed in the post graduate program of the department.

**40. State whether the program/department is accredited/graded by other agencies? If yes, give details.**

Yes. The programs in the department are recognized by RGUHS and DCI

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- a. Research in the field of genetics (Our department is one of the first dental departments in South East Asia to target 6 genes (SNP) in the same population.)
- b. Research in the field of basic materials and basic sciences .
- c. Conducting CDE programs by eminent international speakers, where various college heads, faculty and students attended.
- d. All faculty members have national and international publications.
- e. All faculty members have paper presentation to their credit and have also been invited as guest speakers at various national and international forums.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**STRENGTHS**

- Highest number of professors with faculty trained from different dental schools inculcating the best of these into the post graduate curriculum
- Contemporary research projects like genetics in collaboration with premier research institutes like Genohelix and Vittal Mallya research institute.
- Good number of international publications and presentations.
- Lowest faculty attrition rate
- Two faculty members recognized as Ph D guides.

- Top ranking students in CET opting this department for their higher education.

**WEAKNESS:**

- Less number of research projects by staff
- Ph.D for staff

**OPPORTUNITIES:**

- To get recognized as a contemporary clinical and research institute

**CHALLENGES:**

- To increase clinical material in the department
- To compete with newly emerging dental colleges across the country.
- Quality of students choosing the profession gradually deteriorating.
- Strong recognized alumni association providing guidance to the new post graduate students.
- To have all recognized DCI courses in Orthodontics provided under one roof.

**46. Future plans of the department.**

**Teaching and Learning:**

- Video conferring
- Latest A-V aids in teaching
- Robotic orthodontics- CAD CAM technology

**Research and Publication**

- To increase the no of publications
- Digitization of orthodontic records for easy retrieval and electronic transfer
- Updating and upgrading the department consistently.
- To encourage student exchange program from various colleges and universities .
- To increase the PG students intake from 6 to 9 nos.
- Encourage staff to enroll in Phd

**Patient care:**

- To set up rural dental health clinics as referral centres to the department,