

Subject Code: 1RI3000102	Subject Title: Essentials of Disciplinary Research Subject-1 (Child Psychology)
Pre-requisite Subject	

Objectives of course:

To assemble an objective knowledge base that can provide insight into both the nature of childhood generally as well as the distinctive characteristics of individual children.

Learning outcomes:

1. Using standard research methods, students will analyze major developmental milestones for children from conception through adolescence in the areas of physical, psychological, cognitive, and language development.
2. Compare and contrast various theoretical frameworks that relate to the study of human development.
3. Apply development theory to the analysis of child observations, surveys, and/or interviews using investigative research methodologies

Teaching Scheme (Credit Distribution)				Evaluation Scheme(% Marks)	Total Marks
Lecture	Tutorial	Practical	Credit	Continuous (Internal) Assessment	100
3	1	--	4	100%	

Unit	Content	Lecture	Wt. (%)
1	Development & Classification of Behavior, personality, intelligence in children, theories of child psychology management Stage of Psychological child development, fear anxiety, apprehension & its.	06	30 %
2	Behaviour Management : Non-Pharmacological. Child Abuse & Dental Neglect.	12	30 %
3	Conscious sedation, Pharmacological, Deep sedation in pediatric Dentistry(Including Other Drugs, Synergic & Antagonistic Action Of Various Drugs Used In children)	12	30%
4	Pharmacological Methods- General anesthesia	10	10 %

List of References:

1. William R Proffit, Contemporary Orthodontics, 4th Ed.
2. Bandura A Social Cognitive theory, Annals of child development, Vol(6), P.No:1-60, 1989
3. Ben A. Williams Conditioned Reinforcement. Encyclopedia of Psychology, P No: 495-502, Elsevier Science (USA) Pub
4. Christopher A. Kearney and Jennifer Vecchio Contingency Management. Encyclopedia of Psychology, P.No: 525-532, Elsevier Science (USA) Pub. www.indiandentalacademy.com

5. Steven Taylor Classic Conditioning. Encyclopedia of Psychology , P.No: 415-429, 1st Edition, Elsevier Science (USA) Pub
6. Calvin S. Hall, Gardner Lindsey. Freud's Classical Psychoanalytical theory Theories of Personality, 3rd Edition, P No: 31-75, Johnwiley and Sons Pub. •
7. Nikhil Marwah text book of pediatric dentistry P.NO: 163- 175 ,2nd Edition 2009
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8. Roger B. Fillingim and Pramod K. Sinha, An Introduction to Psychologic Factors in Orthodontic Treatment: Theoretical and Methodological Issues (Semin Orthod 2000;6:209-213.)
9. • Judith E.N. Albino, Factors Influencing Adolescent Cooperation in Orthodontic Treatment(Semin Orthod 2000;6:214-223.)
10. Kolb, D. (1985). Learning style inventory. Boston, MA: McBer and Company
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11. H. Asuman Kiyak,Cultural and Psychologic Influences on Treatment Demand (Semin Orthod 2000;6:242-248.)
12. Hillary L. Broder ,Issues in Decision Making: Should I Have Orthognathic Surgery? (Semin Orthod 2000;6:249-258.)
13. Semilla M. Rivera, Psychosocial Factors Associated With Orthodontic and Orthognathic Surgical Treatment (Semin Orthod 2000;6:259-269.) www.indiandentalacademy.com
14. Deborah A. Roth, Winnie Eng, Richard G. Heimberg Cognitive Behaviour Therapy. Encyclopedia of Psychology, P No: 451- 458, 1st Edition, Elsevier Science (USA) Pub
15. Nedra H. Francis, William Allan Kritsonis A Brief Analysis of Abraham Maslow's Original Writing of Self-Actualizing People: A Study of Psychological Health. National Journal of Publishing and Mentoring Doctoral Student Research Vol 3, No. 1, P.No: 1—7, 2006
16. Elizabeth A. Meade, Young patients' treatment motivation and satisfaction with orthognathic surgery outcomes:The role of "possible selves" Am J Orthod Dentofacial Orthop 2010;137:26-34
www.indiandentalacademy.com

Subject Code: 1RI3000103	Subject Title: Essentials of Disciplinary Research Subject-2 (Dental Caries)
Pre-requisite Subject	- NONE -

- **Objectives of course:** have knowledge of processes related to caries, dental erosion (acid damage), tooth wear, mineralization disorders and discolouration of tooth substance, and how these present clinically;
- **Learning outcomes:** be able to diagnose, prevent and follow up caries, dental erosion (acid damage), tooth wear, mineralization disorders and discolouration of tooth substance in line with the patient's wishes, needs and the prevailing clinical conditions.

Teaching Scheme (Credit Distribution)				Evaluation Scheme(% Marks)	Total Marks
Lecture	Tutorial	Practical	Credit	Continuous (Internal) Assessment	50
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Unit	Content	Wt. (%)
1	□ Historical background	25 %
2	□ Caries pattern in primary, young permanent and permanent and extensive caries. Definition, Aetiology, pathogenesis, Clinical features Complication & Management of ECC/S-ECC	25 %
3	□ Definition, Aetiology & Pathogenesis	15%
4	□ Subjective & Objective methods of caries detections with emphasis on caries	10 %
5	□ Dietary Modifications & Diet Counseling. □ Recent advances in the early diagnosis of dental caries.	25%

List of References:

1. Milnes AR. Description and epidemiology of nursing caries. J. Public Health Dent. 1996; 56: 38–50.

2. Slade GD, Spencer AJ, Davies MJ, Stewart JF. Influence of exposure to fluoridated water on socioeconomic inequalities in children's caries experience. *Community Dent. Oral Epidemiol.* 1996; 24: 89–100.
3. Tennant M, Namjoshi D, Silva D, Codde J. Oral health and hospitalization in Western Australian children. *Aust. Dent. J.* 2000; 45: 204–76
4. Haugejorden O, Birkeland JM. Evidence for reversal of the caries decline among Norwegian children. *Int. J. Paediatr. Dent.* 2002; 12: 306–15.
5. Heller KE, Eklund SA, Pittman J, Ismail AA. Associations between dental treatment in the primary and permanent dentitions using insurance claims data. *Pediatr. Dent.* 2000; 22: 469–74.
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9. 6. List of Higher Secondary Schools in Chennai. [Last accessed on 2014 Jan 12]. Available from: <http://www.chennai.tn.nic.in/schools/sch-GS.pdf>.
10. 7. 4th ed. Geneva: World Health Organization; 1997. World Health Organization. Oral Health Surveys: Basic Methods. [[Google Scholar](#)]
11. Cole MF, Eastoe JE, Curtis MA, Korts DC, Bowen WH. Effects of pyridoxine, phytate and invert sugar on plaque composition and caries activity in the monkey (*Macaca fascicularis*) *Caries Res.* 1980;14:1–15. [[PubMed](#)] [[Google Scholar](#)] Nurelhuda NM, Al-Haroni M, Trovik TA, Bakken V. Caries experience and quantification of *Streptococcus mutans* and *Streptococcus sobrinus* in saliva of Sudanese schoolchildren. *Caries Res.* 2010;44:402–7. [[PubMed](#)] [[Google Scholar](#)]
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13. Caufield PW, Griffen AL. Dental caries. An infectious and transmissible disease. *Pediatr Clin North Am.* 2000;47:1001–19. v. [[PubMed](#)] [[Google Scholar](#)]
14. Berkowitz RJ, Turner J, Hughes C. Microbial characteristics of the human dental caries associated with prolonged bottle-feeding. *Arch Oral Biol.* 1984;29:949–5