

**Department Of Education**

**Book List as Per CBCS Syllabus  
Deogarh College, Deogarh**

| <b>Sl. No</b> | <b>Name of the Book</b>   | <b>Author</b>                            |
|---------------|---|--|
| 1             | Theory and principle of Education   | J.C Aggrawal                             |
| 2             | Modern Theory and Principles of Education                                     | R.N. Safaya & B.D Shaida                 |
| 3             | Philosophical & Sociological Foundations of Education                         | K.K. Bhatia                              |
| 4             | Educational psychology  | A Woolfolk                               |
| 5             | Essentials Of Educational Psychology  | S. K. Mangal                             |
| 6             | Advanced Psychology of Teaching & learning Process                            | K.K. Bhatia, B.D Damral., Damral Prabhjo |
| 7             | Psychological Foundation of Education   | K.K. Bhatia                              |
| 8             | Sociology - Principles of Sociology With introduction to Sociological Thought | C.N. Shankar Rao                         |
| 9             | Sociological Bases of Education   | Bharti Chetna                            |
| 10            | A Comprehensive Study of Education  | Samuel Ravi                              |
| 11            | Essentials of examination system, evaluation, tests & measurement             | J.C. Aggarwal                            |
| 12            | Tests, measurements & research methods in behavioural science                 | A.K. Singh                               |
| 13            | Educational Assessment & Evaluation   | KhatoI Pratap Keshari                    |
| 14            | Research Methodology: Methods and Techniques                                  | C.R. Kothari                             |
| 15            | Research in education   | J.W. Best and J. V Kahn                  |
| 16            | Introduction to Educational Research  | R.C. Dhir, D.Sahoo                       |
| 17            | Statistics in Psychology and Education  | S.K. Mangal                              |
| 18            | Fundamentals of Statistics  | S.C. Gupta                               |
| 19            | Statistics in Education   | KhatoI Pratap Keshari                    |
| 20            | Curriculum Development: Perspectives, Principles and Issues                   | Mrunalini Talla                          |
| 21            | Curriculum Development and Assessment   | Dr. Gita Dudeja , Dr. Guruvinder Kour    |
| 22            | Curriculum & Understanding the discipline                                     | Beri Payal , Bharti Chetna               |
| 23            | Development of education in System India                                      | B.N. Dash                                |

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|----|---|---------------------------------|
| 24 | Development of education in system in India                             | J.C. Aggarwal                   |
| 25 | Essentials of Guidance and Counseling                                   | Susant Misra                    |
| 26 | Guidance and Counseling   | Asha K. Kinra                   |
| 27 | Fundamentals of Guidance and Counseling                                 | R.A. Sharma                     |
| 28 | Principles of Guidance and Counseling                                   | K.K.Bhatia                      |
| 29 | History of education in Odisha  | J.K.Samal                       |
| 30 | History of modern Orissa  | J.K. Samal                      |
| 31 | Essentials of Educational Technology                                    | S. K. Mangal                    |
| 32 | Fundamentals of Educational Technology                                  | K.K.Bhatia                      |
| 33 | Essentials of Educational Technology                                    | J.C. Aggarwal                   |
| 34 | Trends and Issues in Indian Education                                   | Sanjay Ku. Swain                |
| 35 | Contemporary concerns in education                                      | R.C. Dhir                       |
| 36 | School administration and management                                    | S.K. Kocchar                    |
| 37 | Educational planning and administration                                 | R.C. Dhir, Sankar Das           |
| 38 | Pedagogy of English Language  | Jyotsna Sahoo                   |
| 39 | Odia bhasa O Sahitya Bhitibhumi O Shikshyadan Padhati                   | J. Mohanty, N. Barik            |
| 40 | Odia Sikshadan Paddhati   | J. Mohanty, N. Barik, O Khandai |
| 41 | Teaching of mother tongue   | S.K Kocchar                     |
| 42 | Teaching of Social Studies  | S.K. Mamgal, & U Mangal         |
| 43 | Pedagogy of Social Science  | R.C. Dhir, S. Das               |
| 44 | Pedagogy of mathematics   | R.C. Dhir, S. Das               |
| 45 | Teaching of mathematics   | K.S. Sidhu                      |
| 46 | Landmarks in the History of Modern Indian Education                     | J.C. Aggarwal                   |
| 47 | Educational Policies in India- Analysis & Review of promise performance | K. Sudha Rao                    |
| 48 | Inclusive education   | B.K. Sahu                       |
| 49 | Education Of Exceptional Children                                       | K.C. Panda                      |
| 50 | Educating Exceptional Children  | S.K. Mangal                     |

## BOOK LIST OF HISTORY DEPARTMENT , DEOGARH COLLEGE, DEOGARH

### +3 1<sup>st</sup> Semester

| Sl. No. | Name of the Book                              | Author            |
|---------|---|-------------------|
| 1       | India's Ancient Past ,New Delhi,OUP,2007      | R.S. Sharma.      |
| 2       | Early India from the Beginnings to 1300       | Romila Thapar     |
| 3       | A History of Ancient and Early Medieval India | Upindra Singh     |
| 4       | What Happened in History                      | V. Gordon Childe. |
| 5       | Early Social Formation                        | Amar Farooqui     |
| 6       | Medieval India                                | Irfan Habib       |
| 7       | Cultural History of India                     | A.L. Basheon(ed)  |

### +3 2<sup>nd</sup> Semester

| Sl. No. | Name of the Book                               | Author           |
|---------|--|------------------|
| 8       | An introduction to the study of Indian History | D.D. Kosambi     |
| 9       | Passages from Antiquity feudalism              | Perry Anderson   |
| 10      | Modern India-1885-1947                         | Sumit Sarkar     |
| 11      | Comprehensive History of Modern India          | Priyadarshai Kar |

### +3 3<sup>rd</sup> Semester

| Sl. No. | Name of the Book   | Author            |
|---------|--|-------------------|
| 12      | The Making of Early Medieval India   | B.D. Chatopadhaya |
| 13      | Socio- cultural History of India   | Mittal            |
| 14      | Rise of the Modern West Social and Economic History of Early modern Europe | Meenakshi Phukan  |
| 15      | The foundation of early modern Europe                                      | F. Rice           |
| 16      | Medieval India –Vol-I  | Satish Chandra    |

### +3 4<sup>th</sup> Semester

| Sl. No. | Name of the Book                           | Author         |
|---------|--|----------------|
| 17      | History of Modern Europe                   | C.A. Fisher    |
| 18      | The Origin of Modern Science               | H. Butterfield |
| 19      | Medieval India –Vol-II                     | Satish Chandra |
| 20      | Agrarian system of Mughal India(1526-1707) | Irfan Habib    |
| 21      | What is History                            | E.H. Car       |
| 22      | History: Its Theories and Method           | B.Sheik Ali    |

### +3 5<sup>th</sup> Semester

| Sl. No. | Name of the Book  | Author                         |
|---------|---|--------------------------------|
| 23      | History of Europe (1815-1960)                             | Anthoni Wood                   |
| 24      | India struggle for Independence                           | Bipin Chandra<br>K.M. Parikar  |
| 25      | History of Odisha   | Sahu Mishra Sahu               |
| 26      | Political and Cultural History of India                   | S.K. Panda                     |
| 27      | A comprehensive History and culture of Odisha –Vol-I & II | P.K. P.K. Misha,<br>J.K. Samal |
| 28      | Freedom Struggle in Odisha                                | K.M. Patra                     |

### +3 6<sup>th</sup> Semester

| Sl. No. | Name of the Book                  | Author          |
|---------|-----------------------------------|-----------------|
| 29      | A Study of the History of Odisha  | A-C. Pradhan    |
| 30      | Conon of Odisha Architecture      | N.K. Bose       |
| 31      | Indian National Movement          | Bipan Chandra   |
| 32      | A History of Modern Times         | C.D.M. Ketalyby |
| 33      | Economic History of Europe Vol-II | C.M.Cipolla     |

HOD History  
Deogarh College Deogarh

## Department of Botany Book List

| Sl.No. | Name of the Books                         | Authers's Name  |
|--------|---|---|
| 01     | Microbiology & Phycology                  | B.K. Mishra, Kalyani Publication                          |
| 02     | Biomolecules & Cell Biology               | k.Sahoo, Kalyani Publication                              |
| 03     | Mycology & Phytopathology                 | B.K. Mishra, Kalyani Publication                          |
| 04     | Archegonate                               | B.S. Acharya, Kalyani Publication                         |
| 05     | Anatomy of Angiosperms                    | B.K. Mishra, Kalyani Publication                          |
| 06     | Economic Botany                           | B.Barubh, Kalyani Publication<br>Sing Pande Jain, Rastogi |
| 07     | Fundamental of genetics                   | B.D. Singh, Kalyani Publication                           |
| 08     | Essential of molecular Biology            | A.C. Sahu, Kalyani publication                            |
| 09     | Ecology and phytogeography                | Kalyani publication                                       |
| 10     | A textbook of Plant systematics           | C.r. Mohanty, Kalyani publication                         |
| 11     | Reproductive Biology of Angiosperms       | B.K. Mishra, Kalyani Publication                          |
| 12     | Outlines of plant physiology              | A.C. Sahu, Kalyani publication                            |
| 13     | Outline of plant metabolism               | A.C. Sahu, Kalyani publication                            |
| 14     | Plant Bio-technology                      | B.D. Singh, Kalyani Publication                           |
| 15     | Advance analytical technique              | C.S. Patil, ABE boks(New Delhi)                           |
| 16     | Natural resources management              | B.W. Pande, Mittal Publin(New Delhi)                      |
| 17     | Basics of Horticulture                    | k.V. Peter, Kalyani Publication                           |
| 18     | Industrial and environmental microbiology | A.K. Ratha, Kalyani Publication                           |
| 19     | Environmental microbiology                | P.D. Sharma, Rastogi                                      |
| 20     | Plant Biodiversity                        | B.K. Mishra, Kalyani Publication<br>B.S. Acharya,         |
| 21     | Plant physiology & Metabolism             | A.C. Sahu, Kalyani publication                            |
| 22     | A textbook of Plant systematics           | C.R. Mohanty, Kalyani publication                         |
| 23     | Plant anatomy and Embryology              | C.R. Mohanty, Kalyani publication                         |
| 24     | Practical Botany-Vol-I                    | Kalyani publication                                       |
| 25     | Practical Botany-Vol-II                   | Kalyani publication                                       |
| 26     | Practical Botany-Vol-III                  | Kalyani publication                                       |

## **CBCS Book List of Department of Physics, Deogarh College ,Deogarh**

| <b>Sl.No</b> | <b>Book Name</b>                             | <b>Author and Publication</b>                     |
|--------------|--|---|
| 1            | Mathematical Physics                         | H.K.Dash  |
| 2            | Mathematical Physics                         | Satyaprakash                                      |
| 3            | Mathematical Physics                         | B.D.Gupta   |
| 4            | Introduction to Numerical Analysis           | S.S. Sastry,5th Edition.                          |
| 5            | Mechanics                                    | D.S. Mathur,S. Chand Publishing                   |
| 6            | Programming in C                             | R.Thareja   |
| 7            | Introduction to Special Relativity           | R. Resnick (John Wiley)                           |
| 8            | A Text Book of Practical Physics             | I.Prakash and Ramakrishna                         |
| 9            | Introduction to Electrodynamics              | D.J. Griffiths                                    |
| 10           | Electricity and Magnetism                    | D. C. Tayal (Himalaya Publishing house)           |
| 11           | A text book of Optics                        | N. Subrahmanyam and Brij Lal (S.Chand Publishing) |
| 12           | Mathematical Methods for Physicists          | G.B.Arken,H.J.Weber,F.E.Harris                    |
| 13           | Advanced Engineering Mathematics             | Erwin Kreyszig (Wiley India)                      |
| 14           | SCILAB: A Begineer's Approach                | A.K.Verma   |
| 15           | Thermal Physics                              | A. B. Gupta                                       |
| 16           | Thermodynamics and Statistical Physics,      | N.Subrahmanyamand Brij Lal (S.Chand Publishing)   |
| 17           | Foundations of Electronics                   | Raskhit and Chattopadhyay                         |
| 18           | Concepts of Modern Physics                   | Arthur Beiser                                     |
| 19           | Quantum Mechanics: Concepts and Applications | N.Zettili   |
| 20           | Introduction to Quantum Mechanics            | Griffiths   |
| 21           | Solid State Physics                          | R.K.Puri and V.K. Babbar (S.Chand Publication)    |
| 22           | Elements of Solid State Physics              | KITTEL  |
| 23           | Heat and Thermodynamics                      | A.B. Gupta and H.B. Ray                           |
| 24           | Classical Electrodynamics                    | J.D. Jackson (Willey)                             |
| 25           | Statistical Mechanics                        | R.K.Pathria and Paul D. Beale                     |
| 26           | Introduction to Statistical Physics          | Kerson Huang(Wiley)                               |
| 27           | Classical Mechanics                          | H.Goldstein, C.P. Poole, J.L. Safko (Pearson)     |
| 28           | Classical Mechanics                          | J.C. Upadhyay (Himalayan Publisher)               |

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| 29 | Introduction to Nuclear Physics                         | Roy and Nigam                           |
| 30 | Concepts of Nuclear Physics                             | Bernard L. Cohen(Tata Mcgraw Hill)      |
| 31 | Nano Science and nano technology                        | Sundar Singh                            |
| 32 | Digital Electronics                                     | Subrata Ghoshal                         |
| 33 | B.Sc. Practical Physics - I                             | A.P.Dash (Kalyani Pub.)                 |
| 34 | B.Sc. Practical Physics - II                            | A.P.Dash (Kalyani Pub.)                 |
| 35 | B.Sc. Practical Physics - III                           | A.P.Dash (Kalyani Pub.)                 |
| 36 | Text Book of Quantum Mechanics & Applications           | N.Barik, S.K.Sahu (Kalyani Pub.)        |
| 37 | Solid State Physics                                     | K.K.Sharma ,B.S.Satyal ( Kalyani Pub. ) |
| 38 | Thermal Physics   | K.K.Sharma ,B.S.Satyal ( Kalyani Pub. ) |
| 39 | Statistical Mechanics                                   | K.K.Sharma ,B.S.Satyal ( Kalyani Pub. ) |
| 40 | Waves & Optics  | K.K.Sharma ,B.S.Satyal ( Kalyani Pub. ) |
| 41 | Nano Materials & Applications                           | A.K.Dash (Kalyani Pub.)                 |
| 42 | Nuclear & Particle Physics                              | K.K.Sharma ,B.S.Satyal ( Kalyani Pub. ) |
| 43 | Classical Dynamics                                      | Debasis Das (Kalyani Pub.)              |
| 44 | Mathematical Physics - I                                | Debasis Dash (Kalyani Pub.)             |
| 45 | Mathematical Physics - II                               | Debasis Dash (Kalyani Pub.)             |
| 46 | Mathematical Physics - III                              | Debasis Dash (Kalyani Pub.)             |
| 47 | Elements of Modern Physics                              | K.K.Sharma ,B.S.Satyal ( Kalyani Pub. ) |
| 48 | Analog Systems and Applications                         | A.K.Dash ,R.Paikroy (Kalyani Pub.)      |
| 49 | Digital Systems & Applications                          | K.K.Jena, R.Paikroy (Kalyani Pub.)      |
| 50 | Modern College Physics (Mathematical Physics) (Part-I)  | Debasis Dash (Kalyani Pub.)             |
| 51 | Mechanics   | Debasis Dash (Kalyani Pub.)             |
| 52 | Electricity and Magnetism                               | K.K.Sharma ,B.S.Satyal ( Kalyani Pub. ) |
| 53 | Modern College Physics (Mathematical Physics) (Part-II) | Debasis Dash (Kalyani Pub.)             |
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H.O.D  
Department Of Physics



**Books for Undergraduate Chemistry Honours for Bachelor of Science Examination**  
**UNDERCHOICE BASED CREDIT SYSTEM (CBCS)**

| Sl. No. | Book Title   | Author                                     | Publisher/Edition  |
|---------|--|--|--|
| 1       | Concise Inorganic Chemistry                                  | J. D. Lee                                  | Wiley India, 5 <sup>th</sup> Ed., 2008                           |
| 2       | Inorganic Chemistry – Principles of structure and reactivity | J. E. Huheey, E. A. Keiter, R. L Keiter    | Pearson Education, 4 <sup>th</sup> Ed. 2002                      |
| 3       | Principles of Inorganic Chemistry                            | Puri, Sharma, Kalia                        | Vishal Pub. Co., 33 <sup>rd</sup> ed., 2017                      |
| 4       | Fundamentals of Inorganic Chemistry, Vol. I & Vol. II        | Asim K. Das                                | CBS Publications, 2 <sup>nd</sup> Ed., 2010                      |
| 5       | Bioinorganic Chemistry                                       | Asim Kumar Das                             | Books & Allied (P) Ltd. 1 <sup>st</sup> Ed. 2015                 |
| 6       | Inorganic Chemistry  | D. E. Shriver, P. W. Atkins                | Oxford University Press, 5 <sup>th</sup> , Edn. (2010)           |
| 7       | Pradeep's Inorganic Chemistry, Vol. I & II                   |  | Universal Book seller, 14 <sup>th</sup> Ed. 2017                 |
| 8       | Selected Topic in Inorganic Chemistry                        | Mallick, Madan and Tuli                    | S. Chand Publisher, 17 <sup>th</sup> Ed. 2010                    |
| 9       | Organic Chemistry  | R. N. Morrison, & R. N. Boyd               | Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).        |
| 10      | Advanced Organic Chemistry                                   | Arun Bhal & B S Bhal                       | 2 <sup>nd</sup> Edition, S. Chand Publisher, 2012                |
| 11      | Stereochemistry Conformation and Mechanism                   | P. S. Kalsi                                | 8 <sup>th</sup> Edn, New Age International, 2015                 |
| 12      | Pradeep's Organic Chemistry (Vol. I and II)                  | S.N. Dhawan                                | Pradeep Publications   |
| 13      | Organic Spectroscopy   | William Kemp                               | 3 <sup>rd</sup> Edition, Palgrave Publisher, 1991                |
| 14      | Carbohydrate Chemistry                                       | B. G. Davis, A. J. Fairbanks               | Oxford Chemistry Primer, Oxford University Press                 |
| 15      | Spectroscopy of Organic Compounds,                           | P. S. Kalsi                                | 5 <sup>th</sup> Edition, New Age International Publishers, 2016. |
| 16      | Elementary Organic Spectroscopy                              | Y R Sharma                                 | 5 <sup>th</sup> Edition, S. Chand & Company, 2013                |
| 17      | Organic Spectroscopy and Applications                        | Jag Mohan                                  | Narosa Publishrs, 2012   |
| 18      | Principles of Biochemistry.                                  | Nelson, D.L., Cox, M.M. and Lehninger, A.L | 6 <sup>th</sup> Edn. W.H. Freeman and Co. (2013)                 |
| 19      | Medicinal chemistry  | Ashutosh Kar                               | New Age International (P) Ltd., (2007)                           |

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|----|--|--|--|
| 20 | Biochemistry (Part-I)                          | Debojyoti Das  | Academic Publishers (1979)                                 |
| 21 | Textbook of Biochemistry and Human Biology     | G.P. Talwar & M. Srivastava,                               | 3rd Ed. PHI Learning                                       |
| 22 | Practical Biochemistry                         | Wilson, K. & Walker, J.                                    | Cambridge University Press (2009).                         |
| 23 | Harper's Illustrated Biochemistry              | Murray, R.K., Granner, D.K., Mayes, P.A. and Rodwell, V.W. | XXVIII edition. Lange Medical Books/ McGraw-Hill (2009)    |
| 24 | Biochemistry (2006)                            | J.M. Berg, J. L. Tymoczko and L.Stryer                     | 6 <sup>th</sup> Edition. W.H. Freeman and Co. (2002)       |
| 25 | Manual of Biochemistry Workshop                |  | 2012, Department of Chemistry, University of Delhi.        |
| 26 | The Tools of Biochemistry (1977; Reprint 2011) | T.G. Cooper  | Wiley India Pvt. Ltd. (New Delhi), ISBN: 978-81-265-3016-8 |
| 27 | Elements of Physical Chemistry                 | Atkins P. W. & Paula, J. de,                               | Oxford University Press, 6 <sup>th</sup> Ed., (2006)       |
| 28 | Principles of Physical Chemistry               | Puri, Sharma & Pathania,                                   | Vishal Publishing Co, 47 <sup>th</sup> Edn., 2017          |
| 29 | Text Book of Physical Chemistry                | K. L. Kapoor   | McGraw Hill, 3 <sup>rd</sup> Edn. 2017                     |
| 30 | Physical Chemistry                             | G. W. Castellan  | 4 <sup>th</sup> Edn. Narosa (2004)                         |
| 31 | Pradeep's Physical Chemistry, Vol. I & II,     | S.C. Kheterpal   | Pradeep Publications                                       |
| 32 | Physical Chemistry                             | R. G. Mortimer   | , Elsevier (Academic Press), 3 <sup>rd</sup> Ed (2008)     |
| 33 | Physical Chemistry                             | D. W. Ball   | Thomson Press, India (2007)                                |
| 34 | Physical Chemistry                             | Engel T. & Reid P  | 3 <sup>rd</sup> Ed. Pearson (2013)                         |
| 35 | Physical Chemistry                             | I. N. Levine   | 6 <sup>th</sup> Ed., Tata McGraw-Hill (2011)               |
| 36 | Quantum Chemistry                              | I. N. Levine   | PHI  |
| 37 | Quantum Chemistry                              | D. McQuarie  | University Science Publishers, 2007                        |
| 38 | Introductory Quantum Chemistry                 | A. K. Chandra  | Tata McGraw-Hill (2001)                                    |

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| 39 | Fundamentals of Molecular Spectroscopy                                   | C. N. Banwell, & E. M. McCash,                        | 4 <sup>th</sup> Ed. Tata McGraw-Hill: New Delhi (2010)          |
| 40 | Quantum Chemistry  | R. K. Prasad  | New Age International Publishers, 4 <sup>th</sup> Edn, 2010     |
| 41 | Fundamentals of Photochemistry   | K K Rohatagi Mukherjee                                | Wiley Eastern Ltd., 1992  |
| 42 | Organometallic Chemistry   | R.C. Mehrotra and A.Singh                             | New Age International Publishers, 2 <sup>nd</sup> Edn, 2000     |
| 43 | Basic organometallic Chemistry   | B. D. Gupta and A. J. Elias                           | 2 <sup>nd</sup> Edn., University Press (2013)                   |
| 44 | Polymer Science  | V. R. Gowarikar, Jayadev Sreedhar, N. V. Viswanathan, | 1 <sup>st</sup> Edition, New Age International Publishers, 1986 |
| 45 | Polymer Science and Technology: Plastics, Rubber, Blends and Composites, | Premamoy Ghosh,                                       | 3 <sup>rd</sup> Edition, McGraw Hill Education, 2010            |
| 46 | Principles of polymer science  | P. Bahadur &N.V.Sastry                                | Narosa Publishing house, New Delhi 2002                         |
| 47 | Textbook of Polymer Science  | Fred W. Billmeyer                                     | 3 <sup>rd</sup> ed. Wiley-Interscience (1984)                   |
| 48 | Introduction to Physical Polymer Science                                 | L.H. Sperling   | 4 <sup>th</sup> ed. John Wiley & Sons (2005)                    |
| 49 | Polymer Chemistry: An Introduction,                                      | Malcolm P. Stevens                                    | 3 <sup>rd</sup> ed. Oxford University Press (2005)              |
| 50 | Polymer Chemistry  | Charles E. Carraher, Jr.                              | 9 <sup>th</sup> ed. By Seymour/Carraher's (2013)                |
| 51 | Polymer Chemistry  | Nayak P.L.  | Kalyani Publisher (2017)  |
| 52 | Experiments in Polymer Science   | Hundiwale G.D., Athawale V.D., Kapadi U.R., Gite V.V  | New Age Publications (2009)                                     |
| 53 | Polymer Science and Technology,  | Joel R. Fried   | 2 <sup>nd</sup> ed. Prentice-Hall (2003)                        |
| 54 | Introduction to Macromolecular Science                                   | Petr Munk and Tejrjaj M. Aminabhavi,                  | 2 <sup>nd</sup> ed. John Wiley & Sons (2002)                    |

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|----|--|---|---|
| 55 | Polymer Chemistry: An Introduction                       | Malcolm P. Stevens                                  | 3 <sup>rd</sup> ed. Oxford University Press (2005)  |
| 56 | . Green Chemistry- Theory and Practical                  | Anastas P.T. & Warner J.K.                          | Oxford University, Press (2000).  |
| 57 | New Trends in Green Chemistry                            | Ahluwalia V.K. & Kidwai M.:                         | Anamalaya Publishers, New Delhi (2004).   |
| 58 | An Introduction to Green Chemistry                       | Kumar V.,   | Vishal Publishing Co., (2015).  |
| 59 | Introduction to Green Chemistry                          | Matlack A.S.  | , Marcel Dekker (2001).   |
| 60 | Environment Chemistry with Green Chemistry,              | Das Asim K. and Das Mahua                           | Books and Allied (P) Ltd. (2010)  |
| 61 | Monograph on Green Chemistry Laboratory Experiments      |   | edited and published by Green Chemistry Task Force Committee, DST Govt. of India, p. 1-79                     |
| 62 | Greener approaches to undergraduate chemistry experiment | Kirchoff, M. & Ryan, M.A.                           | American Chemical Society, Washington DC (2002)   |
| 63 | Green Chemistry Experiment                               | Sharma, R.K.; Sidhwani, I.T. & Chaudhari, M.K. I.K. | <i>A monograph International Publishing House Pvt Ltd. New Delhi. Bangalore</i> CISBN978-93-81141-55-7 (2013) |
| 64 | <i>Environmental Chemistry:</i>                          | A. K. De  | New Age International Pvt., Ltd, New Delhi, 2010  |
| 65 | Industrial Chemistry, Vol-I,                             | Stocchi E.  | Ellis Horwood Ltd. UK   |
| 66 | Industrial Chemistry                                     | Sharma, B.K. & Gaur, H.                             | Goel Publishing House, Meerut (1996)  |
| 67 | Elementary Principles of Chemical Processes              | Felder R.M. and Rousseau R.W.                       | Wiley Publishers, New Delhi.  |
| 68 | A Textbook of Engineering Chemistry                      | Dara S. S.  | S. Chand & Company Ltd. New Delhi   |
| 69 | Environmental Science                                    | Miller G.T.,  | 11 <sup>th</sup> edition. Brooks/ Cole (2006)   |

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|----|---|---|--|
| 70 | Environmental Studies   | Mishra  | Selective and Scientific Books, New Delhi (2005)                     |
| 71 | A Textbook on Experiments and Calculations in Engineering Chemistry | Dara S. S   | 9 <sup>th</sup> Revised edition (2015), SChand & Company             |
| 72 | <i>Industrial Chemistry, Vol-I</i>                                  | E. Stocchi  | Ellis Horwood Ltd. UK  |
| 73 | Elementary Principles of Chemical Processes,                        | R.M. Felder, R.W. Rousseau:   | Wiley Publishers, New Delhi  |
| 74 | Riegel's <i>Handbook of Industrial Chemistry</i>                    | A. Kent   | CBS Publishers, New Delhi  |
| 75 | Environmental Pollution Analysis                                    | S. M. Khopkar   | Wiley Eastern Ltd, New Delhi   |
| 76 | Industrial Chemistry, Vol-I, 2.                                     | Stocchi E.  | Ellis Horwood Ltd. UK.   |
| 77 | Industrial Chemistry  | Sharma, B.K. & Gaur, H.   | Goel Publishing House, Meerut (1996)                                 |
| 78 | Engineering Chemistry   | P. C. Jain, M. Jain   | Dhanpat Rai & Sons, Delhi  |
| 79 | Engineering Chemistry   | R. Gopalan, D. Venkappayya, S. Nagarajan                                | Vikas Publications, New Delhi  |
| 80 | Introduction to Ceramics  | W. D. Kingery, H. K. Bowen, D. R. Uhlmann                               | Wiley Publishers, New Delhi  |
| 81 | Riegel's <i>Handbook of Industrial Chemistry</i>                    | J. A. Kent  | CBS Publishers, New Delhi  |
| 82 | Practical skills in chemistry                                       | Dean, J. R., Jones, A. M., Holmes, D., Reed, R., Weyers, J. & Jones, A. | 2 <sup>nd</sup> Ed., Prentice-Hall, Harlow (2011)                    |
| 83 | Vogel's Quantitative Chemical                                       | Mendham, J., A. I.  | Analysis 6 <sup>th</sup> Ed., Pearson, 2009                          |
| 84 | Practical Inorganic Chemistry                                       | Gulati Shikha , Sharma Gulati JL and ManochaShagun                      | 1 <sup>st</sup> Edn., CBS Publishers & Distributors Pvt Ltd., (2017) |
| 85 | A. Senior Practical Physical Chemistry                              | Khosla, B. D.; Garg, V. C. & Gulati,                                    | R. Chand & Co., New Delhi (2011).                                    |

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| 99  | Experiments in Polymer Science  | Hundiwale G.D., Athawale V.D., Kapadi U.R. and Gite V. V.     | New Age Publications (2009)   |
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| 101 | Polymer Chemistry: An Introduction  | Malcolm P. Stevens  | 3 <sup>rd</sup> ed. Oxford University Press (2005)                            |
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| 109 | Modern College Chemistry for Sem-I, Sem-II, Sem-III, Sem-IV, Sem-V, Sem-VI               | Y. R. Sharma, K. D. Sharma   | Kalyani Publisher, New Delhi   |
| 110 | Modern College Chemistry for GE-I and GE-II  | Y. R. Sharma, K. D. Sharma   | Kalyani Publisher, New Delhi   |
| 111 | Chemistry for Degree Students for Sem-I, Sem-II, Sem-III, Sem-IV, Sem-V, Sem-VI          | R. L. Madan  | S. Chand & Company Pvt. Ltd, New Delhi-110055  |
| 112 | Chemistry for Degree Students for GE-I and GE-II   | R. L. Madan  | S. Chand & Company Pvt. Ltd, New Delhi-110055  |
| 113 | Inorganic, Organic, Physical Chemistry for Sem-I, Sem-II, Sem-III, Sem-IV, Sem-V, Sem-VI | SK Agarwal, K Lal, A Kathuria<br>Jagdamba Singh, Jaya Singh, Dr. Yeshowardhana, Dr. Sangita, | Pragati Prakashan, MEERUT  |
| 114 | Green Chemistry, DSE-2   | JN Gurtu, K S harma  | Pragati Prakashan, MEERUT  |

## Department of Economics, Deogarh College, Deogarh

### Book List

| Sl. No. | Name of the Book   | Author's Name                             |
|---------|--|---|
| 1       | Principles of Economics  | Gregory N Mankiw                          |
| 2       | Principles of Economics  | Karl E. Case and Ray C. Fair              |
| 3       | Principles of Economics  | H. L Ahuja                                |
| 4       | Microeconomic Theory: Basic Principles and Extensions            | C. Snyder and W. Nicholson                |
| 5       | Intermediate Microeconomics: A Modern Approach                   | H. R. Varian                              |
| 6       | Fundamental Methods of Mathematical Economics                    | A. C. Chiang and K. Wainwright            |
| 7       | Mathematical Methods for Economics                               | Mehta Madnani                             |
| 8       | Macroeconomics,  | N. Gregory Mankiw                         |
| 9       | Macroeconomics   | M.L. Jhingan                              |
| 10      | Modern Macroeconomics  | Brain Snowdon and Howard R vane           |
| 11      | Fundamentals of Statistics                                       | S. C. Gupta                               |
| 12      | Research Methodology: Methods and Techniques                     | Kothari, C. R.                            |
| 13      | Indian Economy — Its Development Experience                      | Misra, S. K. and Puri V. K                |
| 14      | Indian Economy   | Dutt R. and Sundharam K. P. M.            |
| 15      | Development Economics  | H.L Ahuja                                 |
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| 17      | Economic Development   | Todaro, Michael P and Stephen C Smith     |
| 18      | Basic Econometrics   | Gujarati, D                               |
| 19      | The Economy of Odisha: A Profile                                 | Nayak, P., Panda, S. C., Pattanaik, P. K. |
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| 22      | The Economic History of India 1857-1947, Oxford University Press | Tirthankar Roy                            |
| 23      | Public Finance in Theory and Practices.                          | R. A. Musgrave and P. B. Musgave(1989):   |
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121. David Crystal, *English as a World Language*

**DEPARTMENT OF MATHEMATICS****BOOK LIST**

| <b>SL NO.</b> | <b>BOOK NAME</b>  | <b>AUTHOR</b>                                       | <b>PUBLISHERS</b>                            |
|---------------|---|---|--|
| 1             | Discrete Mathematics with Graph Theory                          | Edgar G.Goodaire and Michael M. Parmenter           | Pearson Education P.Ltd                      |
| 2             | An introduction to Linear Algebra                               | V. Krishna Murthy ,V.P. Mainra, J.L. Arora          | Kalyani publisher                            |
| 3             | Discrete Mathematics  | DhirendrakumarDalei                                 | Kalyani publisher                            |
| 4             | A Course of Ordinary and Partial Differential Equation          | J. Sinha Roy and S. Padhi                           | Kalyani publisher                            |
| 5             | Introduction to Real Analysis                                   | R.G. Bartle and B.R. Sherbert                       | John Wiley ans Sons                          |
| 6             | Mathematical Modelling with Case Studies                        | Belinda Barnes and Glenn R Fulford                  | Taylorand Francis Group                      |
| 7             | Contemporary Abstract Algebra                                   | Joseph A. Gallian                                   | Narosa Publishing(4 <sup>th</sup> Edn)       |
| 8             | LinearPartial Differential Equation for Scientist and Engineers | TynMyint –U and LokenathDebnath                     | 4 <sup>th</sup> Edn                          |
| 9             | Topology of Metric Spaces                                       | S. Kumaresan  | Narosa Publishing (2 <sup>nd</sup> Edn)      |
| 10            | Topology  | James R. Munkres                                    |  |
| 11            | Abstract Algebra  | M. Artin  | Pearson Education P.Ltd(2 <sup>nd</sup> Edn) |
| 12            | Matlab Primer   | Timothy A. Davis and Kermit Sigen                   |  |
| 13            | Linear Algebra  | Stephen H.FriedbergArnold .Insel, Lawrence E Spence | Pearson Education P.Ltd(4 <sup>th</sup> Edn) |
| 14            | Operations Research   | KantiSwarup   | Sultan Chand and Sons                        |
| 15            | Ordinary and Partial Differential Equation                      | Dr. M.D. Raisinghania                               | S. Chand                                     |
| 16            | Elementary Number Theory with Applications                      | Thomas Koshy  | 2 <sup>nd</sup> Edn                          |
| 17            | An Introduction to Differential Geometry                        | T. J. Willmore                                      | Dover publication                            |

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| 18 | Elements of Real Analysis        | Shanti Narayan and Dr. M. D. Raisinghania |  |
| 19 | Fundamentals of Applied Stastics | S.C. Gupta , V.K. Kapoor                  |  |

ଦେବଗଡ଼ ମହାବିଦ୍ୟାଳୟ, ଦେବଗଡ଼

ଓଡ଼ିଆ ବିଭାଗ (ପୁସ୍ତକ)

ଅଭିଯାନ - କାଳିନ୍ଦୀଚରଣ ପଟ୍ଟନାୟକ ( ନଟକ)- ୦୪ ଖଣ୍ଡ

ଅମୃତର ସନ୍ତାନ- ଗୋପୀନାଥ ମହାନ୍ତି (ଉପନ୍ୟାସ) ୦୪ ଖଣ୍ଡ

ଅଳଙ୍କାର ପ୍ରସଙ୍ଗ - ଗୋବିନ୍ଦ ଚନ୍ଦ୍ର ଉଦଗାଡ଼ା, ଫ୍ରେଣ୍ଡ୍‌ସ୍ ପବ୍ଲିଶର୍ସ ,କଟକ -୪ ଖଣ୍ଡ

ଆଧୁନିକ ଓଡ଼ିଆ ବ୍ୟାକରଣ- ଡ଼ ଧନେଶ୍ଵର ମହାପାତ୍ର - କିତାପ ମହଲ, କଟକ ୪ ଖଣ୍ଡ

ଆଧୁନିକ ଓଡ଼ିଆ କବିତାର ସମୀକ୍ଷଣ - ଶତ୍ରୁଘ୍ନ ପାଣ୍ଡବ, ଗ୍ରନ୍ଥମନ୍ଦିର - ୨ ଖଣ୍ଡ

ଆଧୁନିକ ଓଡ଼ିଆ କାବ୍ୟ ସାହିତ୍ୟରେ ପ୍ରାନ୍ତାତ୍ୟ ପ୍ରଭାବ -କାହାଣୀ ପବ୍ଲିଶର୍ସ - କ୍ଷେତ୍ରବାସୀ ନାୟକ - ୨ ଖଣ୍ଡ

ଆଧୁନିକ ଓଡ଼ିଆ ଗଦ୍ୟ ସାହିତ୍ୟ - ଶ୍ରୀନିବାସ ମିଶ୍ର -ବିଦ୍ୟାପୁରୀ, ୨ ଖଣ୍ଡ

ଦାନାପାଣି- ଗୋପୀନାଥ ମହାନ୍ତି,( ଉପନ୍ୟାସ) ୦୪ ଖଣ୍ଡ

ନନ୍ଦିକା କେଶରୀ -ମନୋରଞ୍ଜନ ଦାସ,( ନାଟକ) - ୦୪ ଖଣ୍ଡ

ପଶ୍ଚିମ ଆଫ୍ରିକାର ଓଡ଼ିଆ ଢେଙ୍କି - ଭୁବନେଶ୍ଵର ବେହେରା

ପ୍ରଚଳିତ ଓଡ଼ିଆ ଭାଷାର ବ୍ୟାକରଣ - ବିଜୟ କୁମାର ମହାପାତ୍ର - ବିଦ୍ୟାପୁରୀ,କଟକ - ୧୦ ଖଣ୍ଡ

ପୃଥ୍ଵୀ ବାହାର ମଣିଷ - ଗୋକୁଳାନନ୍ଦ ମହାପାତ୍ର (ଉପନ୍ୟାସ)- ୪ ଖଣ୍ଡ

ପରଜା - ଗୋପୀନାଥ ମହାନ୍ତି (ଉପନ୍ୟାସ) ୦୪ ଖଣ୍ଡ

ଫକୀର ମୋହନ ଗ୍ରନ୍ଥାବଳୀ - ୦୨ ଖଣ୍ଡ

ବିଚିତ୍ର ବିଶ୍ଵ - ଦେବକାନ୍ତ ମହାପାତ୍ର - ୪ ଖଣ୍ଡ

ଭାଷଣ କଳା ଓ ଅନ୍ୟାନ୍ୟ ପ୍ରସଙ୍ଗ- କୃଷ୍ଣଚନ୍ଦ୍ର ପ୍ରଧାନ, ସତ୍ୟନାରାୟଣ ଦୁଇ ଷ୍ଟୋର କଟକ- ୪ ଖଣ୍ଡ

ମାବଳୀ ପାଞ୍ଜି ଏକ ଦୃଷ୍ଟିପାତ, ୦୪ ସୁରେନ୍ଦ୍ର କୁମାର ମହାରଣା

ମାଟିର ମଣିଷ - କାଳିନ୍ଦୀଚରଣ ପାଣିଗ୍ରାହୀ ( ଉପନ୍ୟାସ)- ୪ ଖଣ୍ଡ

ରସକଲ୍ଲୋଳ - ଦାନକୃଷ୍ଣ ଦାସ -୦୪ ଖଣ୍ଡ

ସ୍ଵାଧିନତା ପରବର୍ତ୍ତୀ ଓଡ଼ିଆ ସାହିତ୍ୟ -ନାରାୟଣ ସାହୁ -୦୮

ରାଧାନାଥ ଗ୍ରନ୍ଥାବଳୀ- ୦୨ ଖଣ୍ଡ

ଲାଲାମୟ ନୀଳାଦ୍ରୀଣ - ସଂପାଦନା , ଭୁବନେଶ୍ଵର ଭଞ୍ଜ ଭାରତୀ (ପ୍ରଥମ ଭାଗ ଓ ୨ୟ ଭାଗ)

ଶାସ୍ତ୍ର- କାହ୍ନୁଚରଣ ମହାନ୍ତି, ଫ୍ରେଣ୍ଡସ୍ ପବ୍ଲିଶର୍ସ ୦୪ ଖଣ୍ଡ

ସନ୍ଥକବି ଭୀମଭୋଇ ଗ୍ରନ୍ଥାବଳୀ , ଡ଼ ରଘିବ ଚରଣ ନାୟକ

ସମାଦ ପତ୍ର ଓ ଗଣମାଧ୍ୟମ - ମୃଣାଳ ଗୁରୁଜୀ - ୪ ଖଣ୍ଡ

ସର୍ବସାର ବ୍ୟାକରଣ - ପଣ୍ଡିତ ନାରାୟଣ ମହାପାତ୍ର ଏବଂ ଶ୍ରୀଧର ଦାଶ, ନିଉ ସ୍କୁଲ୍ ଷ୍ଟୋର, କଟକ - ୧୦ ଖଣ୍ଡ

ସବୁଜରୁ ସଂପ୍ରତିକ - ନିତ୍ୟାନନ୍ଦ ମହାପାତ୍ର - ୨ ଖଣ୍ଡ

ସାହିତ୍ୟ ଦାସ୍ତ୍ରୀ (+୨) ପ୍ରଥମ ଖଣ୍ଡ, ଦ୍ୱିତୀୟ ଖଣ୍ଡ - ୧୦ ଖଣ୍ଡ

ସାହିତ୍ୟ ଜ୍ୟୋତି (+୨) ପ୍ରଥମ ଖଣ୍ଡ, ଦ୍ୱିତୀୟ ଖଣ୍ଡ - ୧୦ ଖଣ୍ଡ

ଓଡ଼ିଆ ପ୍ରବନ୍ଧ ସାହିତ୍ୟର ଇତିହାସ - ବାଉରୀ ବନ୍ଧୁ ଜର, ଫ୍ରେଣ୍ଡସ୍ ପବ୍ଲିକେସନ୍ସ

ଓଡ଼ିଆ ପ୍ରବନ୍ଧ ସାହିତ୍ୟର ଇତିହାସ -ଅସିତ ପତି-୦୮

ଓଡ଼ିଆ ଭାଷାର ଉନ୍ନେଷ ଓ ବିକାଶ- ଡ଼ ବାସୁଦେବ ସାହୁ - ୦୪ ଖଣ୍ଡ

ଓଡ଼ିଆ ଉପନ୍ୟାସ ଓ କୃଷ୍ଣଚରଣ ବେହେରା, ଫ୍ରେଣ୍ଡସ୍ ପବ୍ଲିକେସନ୍ସ

ଓଡ଼ିଆ ରାଜନୀତି ସାହିତ୍ୟ ପରଂପରା ଓ ପରଦୃଷ୍ଟି- କୃଷ୍ଣଚନ୍ଦ୍ର ପ୍ରଧାନ, ବିଦ୍ୟାପୁରୀ

ଓଡ଼ିଆ ରାଜନୀତିକ ଉପନ୍ୟାସ- ମିଥୁନ ଚନ୍ଦ୍ର ଚାନ୍ଦ, ଚାଲମ ପାସ ପବ୍ଲିକେସନ୍ସ

ଓଡ଼ିଆ ସାହିତ୍ୟ ଚର୍ଚ୍ଚା ଓ ତଥ୍ୟ - ଡ଼ ଭୋଳାନାଥ ରାଉତ

ଓଡ଼ିଆ ସାହିତ୍ୟର କ୍ରମପରିମାଣ - ନୀଳକଣ୍ଠ ଦାସ, ଗ୍ରନ୍ଥ ମନ୍ଦିର

ଓଡ଼ିଆ ସାହିତ୍ୟରେ ରାଧାନାଥ ଓ ସତ୍ୟବାଦୀ ଯୁଗ, ବୈଷ୍ଣବ ଚରଣ ସାମଲ, ଫ୍ରେଣ୍ଡସ୍

ଓଡ଼ିଆ ଗଳ୍ପ ଉପନ୍ୟାସର ମନଦିଗନ୍ତ- ଡ଼ ଆଦିକନ୍ଦ ସାହୁ, ଗ୍ରନ୍ଥମନ୍ଦିର - ୦୨ ଖଣ୍ଡ

ଓଡ଼ିଆ ଜାତିର ଜୀବନ ଗାଥା - ହର ପ୍ରସାଦ ଦାସ , ପଶ୍ଚିମା ପବ୍ଲିକେସନ୍ସ ୦୨ ଖଣ୍ଡ

ଓଡ଼ିଆ ଲୋକ ସାହିତ୍ୟ ଚର୍ଚ୍ଚା- ଶ୍ୟାମସୁନ୍ଦର ମହାପାତ୍ର- ୦୪ ଖଣ୍ଡ

ଓଡ଼ିଶା ନାଟକର ଐତିହାସ ଓ ପରମ୍ପରା - ହେମନ୍ତ କୁମାର ଦାସ, କାହାଣୀ ପବ୍ଲିକେସନ୍ସ

ଓଡ଼ିଶା କ୍ଷୁଦ୍ର ଗଳ୍ପର ଇତିହାସ -ବୈଷ୍ଣବ ଚରଣ ସାମଲ (୦୨ ଖଣ୍ଡ)

ଓଡ଼ିଶା ଜୀବନୀ ଓ ଆତ୍ମ ଜୀବନୀ -ଲାବଣ୍ୟ ନାୟକ, କାହାଣୀ ପବ୍ଲିକେସନ୍ସ ୦୨ ଖଣ୍ଡ

ଓଡ଼ିଆ ବ୍ରତ ସାହିତ୍ୟ - ଅରବିନ୍ଦ ପଟ୍ଟନାୟକ, ଓଡ଼ିଶା ସାହିତ୍ୟ ଏକାଡ଼େମୀ

ଓଡ଼ିଆ ଭାଷାଚର୍ଚ୍ଚା ବିକାଶ ଓ ବିଶ୍ଳେଷଣ - ଧନେଶ୍ୱର ମହାପାତ୍ର -

ଓଡ଼ିଆ ଏକାଙ୍କିକା ; ଧାରା ଓ ଧାରା - ଗିରିଶ ଚନ୍ଦ୍ର ମିଶ୍ର, ଆର୍ଯ୍ୟ ପ୍ରକାଶନ ୨ ଖଣ୍ଡ

ଓଡ଼ିଆ ସଂସ୍କୃତିକ ଇତିହାସ - ପ୍ରବୋଧ କୁମାର ମିଶ୍ର, ବିଦ୍ୟାପୁରି କଟକ-୨ ଖଣ୍ଡ

ଓଡ଼ିଆ ସଂସ୍କୃତିକ ଇତିହାସ - ସଂସ୍କୃତି ବିଭାଗ ଓଡ଼ିଶା - ୨ ଖଣ୍ଡ

ଓଡ଼ିଆ ସାହିତ୍ୟର ପରିଚୟ - ସୁରତ କୁମାର ପୂଷ୍ପ - ୨ ଖଣ୍ଡ A.K. Mishra Pub.

ଓଡ଼ିଆ ସାହିତ୍ୟର ଇତିହାସ - ବାଉରୀ ବନ୍ଧୁ - ୧୦ ଖଣ୍ଡ

ଓଡ଼ିଆ ସାହିତ୍ୟର ଇତିହାସ - ସୁରେନ୍ଦ୍ର କୁମାର ମହାରଣା - ୧୦ ଖଣ୍ଡ A.K. Mishra Pub.

ଓଡ଼ିଆ ସାହିତ୍ୟରେ ଶ୍ରୀଜଗନ୍ନାଥ - ବାସୁଦେବ ସାହୁ, ଫ୍ରେଣ୍ଡସ୍ ପବ୍ଲିଶର୍ସ ,କଟକ-୨ ଖଣ୍ଡ

ଓଡ଼ିଆରେ କମ୍ପ୍ୟୁଟର ଶିକ୍ଷା - ରୁଦ୍ରନାରାୟଣ ମହାପାତ୍ର- ୪ ଖଣ୍ଡ

ଓଡ଼ିଶା ସାହିତ୍ୟର ଇତିହାସ, ପ୍ରେମାନନ୍ଦ ମହାପାତ୍ର - ପ୍ରେମାନନ୍ଦ ମହାପାତ୍ର ( ୪ ଖଣ୍ଡ)

ସତୁରାରୁ ସହସ୍ରାଳୀ - ନିତ୍ୟାନନ୍ଦ ମହାପାତ୍ର - ୨ ଖଣ୍ଡ

କିଶୋର ଚନ୍ଦ୍ରାନନ୍ଦ ଚଂପୁ - କବିସୂର୍ଯ୍ୟ ବଳଦେବ ରଥ - ୦୪ ଖଣ୍ଡ

କାବ୍ୟ ସମ୍ପାଦ - ଦାଶରଥ ଦାଶ- ୪ ଖଣ୍ଡ

କାହାର ଓଡ଼ିଶା - ଗୌରହରି ଦାସ, ପକ୍ଷାଘର ପବ୍ଲିକେସନ୍ସ ୨ ଖଣ୍ଡ

ଗବେଷଣା ପ୍ରବିଧି - ଡ଼ ସୁବୋଧ ଚାଟର୍ଜୀ, ବିଦ୍ୟାପୁରି କଟକ, ୨ ଖଣ୍ଡ

ଗଙ୍ଗାଧର ମେହେର ଗ୍ରନ୍ଥାବଳୀ- ପ୍ରଫେସର ଅଶୋକ କୁମାର ଦାସ - ୦୨ ଖଣ୍ଡ

ଛ'ମାଣ ଆଠଗୁଣ୍ଠ - ଫକୀରମୋହନ ସେନାପତି ୦୪ ଖଣ୍ଡ

ଛଦଗଧ ଚିନ୍ତାମଣି କାବ୍ୟ- ଅଭିମନ୍ୟୁ ସାମନ୍ତ ସିଂହାର-୦୪ ଖଣ୍ଡ

ଯୋଗାଯୋଗ ମୂଳକ ମାତୃଭାଷା - ବିରଞ୍ଚ ନାରାୟଣ ସାମଲ, ସତ୍ୟନାରାୟଣ ବୁକ୍ ଷୋର କଟକ- ୪

ଯୋଗାଯୋଗର ଭାଷା - ସୁଧିର ମହାନ୍ତି

ମୋ ପୁରୀ ଡଙ୍ଗାର କାହାଣୀ - ଫତୁରୀ ନନ୍ଦ

ଶେଷ କଥା- ଡ଼ ନାରାୟଣ ସାହୁ- ସତ୍ୟନାରାୟଣ ବୁକ୍ ଷୋର, ୦୪

କୋକୁଆ- ବିଜୟକୁମାର ଶତପଥ-୦୪ ଖଣ୍ଡ

ଓଡ଼ିଆ ଅଧ୍ୟାପକ

ଡ଼ ସୁରେନ୍ଦ୍ର କୁମାର ଦାସ

କିର୍ତ୍ତନ କୁଅଁର

# **Book List of Philosophy**

## **CC-I- General Philosophy**

Prescribed Book (i) An introduction to philosophical Analysis by John Hospers.

(ii) Introduction to Philosophy by J.N Sinha.

Reference book (i) Introduction to Philosophy by G.T.W Patrick

(ii) The fundamental Questions of Philosophy by A.C Ewing

## **CC-II- Logic and Scientific Method**

Prescribed Book (i) Introduction to Logic and Scientific Method by Cohen and Nagel

Reference Book (i) Introduction to Logic (14<sup>th</sup> Edition) by Copi, Cohen and Mac Mahan.

## **CC-III- System of Indian Philosophy**

(i) An Introduction to Indian Philosophy by Dutta Chatterjee

(ii) A critical survey of Indian Philosophy by C.D Sharma

(iii) Indian Philosophy by J.N Sinha

(iv) Outline of Indian Philosophy by M Hiriyana

## **CC-IV- Symbolic Logic**

Introduction to Symbolic Logic by Basson and O Corner

## **CC-V- Ethics**

(i) A manual of Ethics by J.N Sinha

(ii) An Introduction to Ethics by William Lily

## **CC-VI- History of Greek Philosophy**

(i) Greek Philosophy by W.T Stace

(ii) A History of Western Philosophy by B. Russell

## **CC-VII- System of Indian philosophy**

(i) Indian Philosophy by J.N Sinha

(ii) Indian Philosophy (vol-1 and ii) by S. Radhakrishnan

## **CC-VIII- Contemporary Indian Philosophy**

(i) Contemporary Indian philosophy by B.K Lal

(ii) Contemporary Indian Philosophy by h.Sahoo

## **CC-IX- History of Modern European Philosophy**

(i) History of Modern European Philosophy by R.K Pati

(ii) History of Western Philosophy by Frank Thilly

**CC-X- Philosophy of Language**

(i) Philosophy of Language by Alston

**CC-XI- Western Classics Meditations of Rene Descartes**

(i) Meditation of Philosophy by Rene Descartes

(ii) Essays on Descartes Meditations by Amelie Rorty

**CC-XII- Indian Text :ISA UPANISAD**

(i) The Principal Upanisads by S. Radhakrishnan

(ii) Central Philosophy of the Upanishads by Satyabati Mishra

**CC-XIII- Social and Political philosophy**

(i) An Introduction to Political Philosophy by O.P Guaba

(ii) Social and political Philosophy by Mackenzie

**CC-XIV- Applied Ethics**

(i) Practical Ethics by Peter Singer

(ii) Bio medical Ethics by J. Jagadeb

(iii) Ethics Theory and Practice by J.P Theroux

(iv) Ethics and Society by P.K Mohapatra

**Philosophy of Bhagavat Geeta**

i- The Bhagavat Geeta by S. Radha Krishnan

ii- Bhagavat Geeta & Modern Life by K.M. Muncy & R.R. Diwakar

**Philosophy of Religion :-**

i- Philosophy of Religion by John Hick

ii- Philosophy of Religion by Arvind Sharma

**Gandhian Studies:-**

i- The Philosophy of Mahatma Gandhi by D.M. Datt

ii- Social and Political Thought of M.K. Gandhi

**Recent Western Philosophy :-**

i- A History of Philosophy by B.A.G. Fuller & C. Murrin

ii- A Critical Survey of Phenomenology & Existentialism by M.K. Bhadra

iii- Continental Philosophy and Anthology by W. Meneil & K.S. Feldman

**Department of Pol.Sc. , Deogarh College, Deogarh**

**Book List**

| <b>Sl. No.</b> | <b>Name of the Book</b>                          | <b>Author's Name</b>                    |
|----------------|--|---|
| 01             | Modern Political theory                          | S.P. Verma                              |
| 02             | Political Theory Ideas and concept               | Sushila Ramaswami                       |
| 03             | Politics in India                                | Sudipta kaviraj                         |
| 04             | Comparative Politics                             | J.C. Johari                             |
| 05             | Public Administration                            | Pearson                                 |
| 06             | Public Administration concept and Theories       | Rumki Basu                              |
| 07             | Public Administration                            | M. Laxmii Kant                          |
| 08             | International Politics concept theory and issues | Rumki Basu                              |
| 09             | Perspective on International relation            | Kitab Mahal                             |
| 10             | Comparative Politics                             | Vidya Bhusan                            |
| 11             | Theoretical foundation of comparative politics   | Subrata Mukharaji and Sushila Ramaswamy |
| 12             | Perspective on Public Administration             | K.K. Ghai                               |
| 13             | Global Politics                                  | Rupak Duttagupta                        |
| 14             | Global Politics                                  | Kitab Mahal                             |
| 15             | Globalization of World Politics                  | Oxford University Press                 |
| 16             | A History of Political Thought                   | Subrata Mukharaji and Sushila Ramaswamy |
| 17             | Western Political thought                        | D.R. Bhandari                           |
| 18             | Modern India Political Thought                   | V.P. Varma                              |
| 19             | India Political Thought                          | Kalyani Publisher                       |
| 20             | Western Political thought                        | B. Nelson                               |
| 21             | Human Rights A very short introduction           | Andrew Clapham                          |
| 22             | Human Rights                                     | Kalyani Publisher                       |
| 23             | Human Rights                                     | Kitab Mahal                             |
| 24             | Social Movements and the state                   | Ghanashyam Shah                         |
| 25             | Social Movements                                 | Kalyani Publisher                       |
| 26             | Social Movements                                 | Kitab Mahal                             |
| 27             | Foreign policy of India                          | Urghai                                  |
| 28             | Foreign policy of India                          | Kalyani Publisher                       |
| 29             | Foreign policy of India                          | Kitab Mahal                             |
| 30             | Women power and politics                         | Kalyani Publisher                       |
| 31             | Women power and politics                         | Kitab Mahal                             |
| 32             | Women studies in India                           | M. John                                 |
| 33             | Feminism theory and Practice                     | Sanjay sen                              |
| 34             | Feminism theory and Practice                     | Kalyani Publisher                       |
| 35             | Feminism theory and Practice                     | Kitab Mahal                             |
| 36             | Governance Issues and challenges                 | Kitab Mahal                             |
| 37             | Gandhi and the contemporary World                | Kalyani Publisher                       |
| 38             | Gandhi and the contemporary World                | Kitab Mahal                             |
| 39             | The United nations                               | Rumki Basu                              |
| 40             | Modern Political Theory                          | S.P. Varma                              |

## Book list of Zoology Department

| Sl. No. | Name of the Book                                 | Publisher/ Author  |
|---------|--|--|
| 01      | Modern Text Book of Zoology (Invertebrate)       | Rastogi  |
| 02      | Element of Ecology                               | Smith & Smith(Global Publication)                        |
| 03      | Fundamentals of Ecology                          | M.C. Das   |
| 04      | Modern Text Book of Zoology (Vertebrate)         | Rastogi  |
| 05      | Principial of Biochemistry                       | Nelson , Cox & Lehinger                                  |
| 06      | Comparative Anatomy of Vertebrate                | R.K Soxena & Sumitra Soxena                              |
| 07      | Human physiology                                 | Vender   |
| 08      | Animan Beheivour                                 | Jhon-A   |
| 09      | Biological rhythem                               | Binod Kumar  |
| 10      | Chronobiology                                    | A.K. Pati  |
| 11      | A text book of fish Biology & fisheries          | S.S.Sharam & H.R. Singh                                  |
| 12      | FundamentalGopal Rajesh wild life management     | (Gopal rajesh (Netraj publication )                      |
| 13      | Intruduction to Economics zoology                | Sarkar , kundu & Chaki                                   |
| 14      | Fundamentals of foods , nutrition 7 diet therapy | Mudambi & rajgopal ( New age international publication ) |
| 15      | A text book of Animal Behavior                   | Mohanty M.K., Mishra S.k., Praharaj S.C. (Kp)            |
| 16      | Evolutionary Biology                             | Kp   |
| 17      | Economic Zoology                                 | Kp   |
| 18      | Ecology and Biostatistics                        | Manideepraj 7 rajan SARma(Kp)                            |
| 19      | Biology IX                                       | Campben, N.A & Reece J.B                                 |
| 20      | Organic Evaluation                               | Rastogi B.B.   |
| 21      | Evoluation III                                   | Ridley M   |
| 22      | Genetics-A conceptual Approach                   | Benjamin pierce  |
| 23      | Developmental Biology                            | Gilbert , S.F.   |
| 24      | Genetics   | Rastogi publication                                      |
| 25      | Chordate embryology                              | S chand  |
| 26      | Animal Behavior                                  | Rastogi  |
| 27      | Biotechnology                                    | BD Singh   |
| 28      | Gene cloning & DNA analysis                      | Brown J.A  |
| 29      | Endocrinology                                    | Hadley M.T & Levine J.B.                                 |
| 30      | Invertebrate Zoology                             | Kalyani publication                                      |
| 31      | Vertebrate Zoology                               | Kalyani Publication                                      |
| 32      | Human Physiology                                 | Kalyani Publication                                      |
| 33      | Animal Behavior                                  | Kalyani Publication                                      |
| 34      | Genetics   | Kalyani Publication                                      |
| 35      | Molecular biology                                | Kalyani Publication                                      |
| 36      | Comparative Anatomy                              | Kalyani Publication                                      |
| 37      | Ecology  | S.chand  |
| 38      | Invertebrate & Vertebrate (Practical)            | KP, S.chand  |
| 39      | Molicular Biology (Practical )                   | S. chand   |
| 40      | Biochemistry ((Practical )                       | Kp   |