

**PRIYADARSHINI COLLEGE OF ENGINEERING**  
**CRPF CAMPUS HINGNA ROAD, NAGPUR**

**DATABASES**

**1. CD'S OF VIDEO LECTURES BY CET IIT KHARAGHPUR**

| Sr. No                              | Course Name                       | Faculty Name              | Approx Duration | No. of Courses |
|-------------------------------------|-----------------------------------|---------------------------|-----------------|----------------|
| <b>Mechanical</b>                   |                                   |                           |                 |                |
| 1                                   | Robotics & Robot Applications     | Prof. A.B. Chattopadhyay  | 40 X 1 Hr       | <b>40</b>      |
| 2                                   | Theory & Practice in Machining    | Prof. A.B. Chattopadhyay  | 54 X 1 Hr       | <b>54</b>      |
| 3                                   | Fluid Mechanics                   | Prof. S.K. Som            | 49 X 1 Hr       | <b>49</b>      |
| <b>Industrial</b>                   |                                   |                           |                 |                |
| 4                                   | Enterprise Resource Planning      | Prof. D. Acharya          | 35 X 1 Hr       | <b>35</b>      |
| <b>Electrical Engg. Ind. Elect.</b> |                                   |                           |                 |                |
| 5                                   | Theory of Electrical Machines     | Prof. S.N. Bhadra         | 42 X 1 Hr       | <b>42</b>      |
| 6                                   | Special Electrical Motors         | Prof. K.V. Ratnam         | 44 X 1 Hr       | <b>44</b>      |
| 7                                   | Electrical Machines – I           | Dr. T.K. Bhattacharya     | 36 X 1 Hr       | <b>38</b>      |
| <b>EE/ET</b>                        |                                   |                           |                 |                |
| 8                                   | VLSI Circuits & Systems           | Prof. S.K.Lahiri          | 41 X 1 Hr       | <b>41</b>      |
| 9                                   | Digital Signal Processing         | Prof. T.K. Basu           | 36 X 1 Hr       | <b>36</b>      |
| 10                                  | Digital Image Processing          | Prof. S. Sengupta         | 41 X 1 Hr       | <b>41</b>      |
| 11                                  | Wavelets & Multirate DSP          | Prof. M. Chakraborty      | 48 X 1 Hr       | <b>48</b>      |
| 12                                  | Digital Voice and Picture Coding  | Prof. R.V. Rajkumar       | 34 X 1 Hr       | <b>34</b>      |
| <b>CT/IT</b>                        |                                   |                           |                 |                |
| 13                                  | Design And Analysis of Algorithms | Dr. T.K. Dey              | 33 X 1 Hr       | <b>33</b>      |
| 14                                  | Object Oriented System Design     | Prof. A.K. Mazumder & Dr. | 38 X 1 Hr       | <b>38</b>      |
| 15                                  | Introduction to Database          | Prof. P.P Chakraborty     | 36 X 1 Hr       | <b>36</b>      |
| 16                                  | Introduction to Software Engg.    | Dr. Rajiv Mall            |                 | <b>31</b>      |
| 17                                  | Internet Technologies             | Prof. Indranill Sengupta  |                 | <b>30</b>      |
| <b>Mathematics</b>                  |                                   |                           |                 |                |
| 18                                  | Numerical Analysis & Algorithms   | Prof. P. Neogi            | 40 X 1 Hr       | <b>40</b>      |
| <b>Physics</b>                      |                                   |                           |                 |                |
| 19                                  | Quantum Mechanics                 | Dr. Somnath Bharadwaj     | 40 X 1 Hr       | <b>40</b>      |
|                                     |                                   |                           |                 | <b>750</b>     |

### 3. STATISTICS OF NPTEL VIDEO COURSES

| Department Wise |   |                |
|-----------------|---|----------------|
| Sr. No.         | Branch                                      | Total Lectures |
| 1               | Basic Sciences                              | 18             |
| 2               | Computer Engineering                        | 10             |
| 3               | Electrical Engineering                      | 21             |
| 4               | Electronics & Telecommunication Engineering | 21             |
| 5               | Information Technology                      | 6              |
| 6               | Mechanical Engineering                      | 16             |
| <b>Total</b>    |   | <b>92</b>      |

| LIST OF NPTEL VIDEO COURSES - PHASE I |              |   |
|---------------------------------------|--------------|---|
| Sr. No.                               | Lecture Name |   |
| <b>Basic Sciences</b>                 |              |   |
| 1                                     | i            | Physics I - Oscillations & Waves                          |
| 2                                     | ii           | Engineering Mechanics                                     |
| 3                                     | iii          | Basic Electronics   |
| 4                                     | iv           | Basic Electronics and Lab                                 |
| 5                                     | v            | Mathematics I   |
| 6                                     | vi           | Numerical Analysis and Computer Programming               |
| 7                                     | vii          | Concept of Management and Evolution of Management thought |
| 8                                     | viii         | Quantum Physics   |
| 9                                     | ix           | Engineering Chemistry I                                   |
| 10                                    | x            | Engineering Physics II                                    |
| 11                                    | xi           | Basic Electronic Lab                                      |
| 12                                    | xii          | Classical Physics   |
| 13                                    | xiii         | Strategic Management                                      |
| 14                                    | xiv          | Leadership  |
| 15                                    | xv           | Management Information System                             |
| 16                                    | xvi          | Mathematics II  |
| 17                                    | xvii         | Mathematics III   |
| 18                                    | xviii        | Numerical Methods and Computation                         |
| <b>Computer Engineering</b>           |              |   |
| 19                                    | i            | Artificial Intelligence                                   |
| 20                                    | ii           | computer graphics   |
| 21                                    | iii          | Principles of Programming Languages                       |
| 22                                    | iv           | System Analysis and Design                                |

|  |       |   |
|--|-------|---|
| 23   | v     | Data Structures And Algorithms  |
| 24   | vi    | Design and Analysis of Algorithms   |
| 25   | vii   | Database Design   |
| 26   | viii  | Artificial Intelligence 2   |
| 27   | ix    | Computer Organization   |
| 28   | x     | Computer Graphics(Intro.)   |
| <b>Electrical Engineering</b>                        |       |   |
| 29   | i     | Basic Electrical Technology   |
| 30   | ii    | Circuit Theory  |
| 31   | iii   | Electromagnetic Fields  |
| 32   | iv    | Power Systems Analysis  |
| 33   | v     | Control Engineering   |
| 34   | vi    | Power Systems Operation and Control                                       |
| 35   | vii   | Power Electronics   |
| 36   | viii  | Industrial Drives - Power Electronics                                     |
| 37   | ix    | Embedded Systems  |
| 38   | x     | Intelligent Systems and Control   |
| 39   | xi    | Industrial Automation and Control   |
| 40   | xii   | Illumination Engineering  |
| 41   | xiii  | Industrial Instrumentation  |
| 42   | xiv   | Chaos, Fractals & Dynamic Systems   |
| 43   | xv    | Energy Resources & Technology   |
| 44   | xvi   | Power System Generation, Transmission and Distribution (Encapsulated from |
| 45   | xvii  | Networks Signals and Systems  |
| 46   | xviii | Networks and Systems  |
| 47   | xix   | Digital Integrated Circuits   |
| 48   | xx    | Analog ICs  |
| 49   | xxi   | Digital Signal Processing   |
| <b>Electronics and Telecommunication Engineering</b> |       |   |
| 50   | i     | Basic Electronics   |
| 51   | ii    | Solid State Devices   |
| 52   | iii   | Basic Electronics and Lab   |
| 53   | iv    | Digital Circuits and Systems  |
| 54   | v     | Communication Engineering   |
| 55   | vi    | Digital Signal Processing   |
| 56   | vii   | VLSI Circuits   |
| 57   | viii  | Transmission Lines and EM Waves   |
| 58   | ix    | High Speed Devices and Circuits   |

|                               |       |   |
|-------------------------------|-------|---|
| 59                            | x     | Probability and Random Processes                |
| 60                            | xi    | Digital Image Processing                        |
| 61                            | xii   | Adaptive Signal Processing                      |
| 62                            | xiii  | Digital Voice & Picture Communication           |
| 63                            | xiv   | Wireless Communication                          |
| 64                            | xv    | MEMS and Microsystems                           |
| 65                            | xvi   | Digital Communication                           |
| 66                            | xvii  | Electronics for Analog Signal Processing - I    |
| 67                            | xviii | Electronics for Analog Signal Processing - II   |
| 68                            | xix   | Digital Systems Design                          |
| 69                            | xx    | VLSI Technology                                 |
| 70                            | xxi   | Digital Computer Organization                   |
| <b>Information Technology</b> |       |   |
| 71                            | i     | Introduction to Problem Solving and Programming |
| 72                            | ii    | Data Communication                              |
| 73                            | iii   | Computer Networks                               |
| 74                            | iv    | Internet Technology                             |
| 75                            | v     | Computer Architecture                           |
| 76                            | vi    | Software Engineering                            |
| <b>Mechanical Engineering</b> |       |   |
| 77                            | i     | Strength of Materials(mech Engg)                |
| 78                            | ii    | Mechanical Measurements and Metrology           |
| 79                            | iii   | Advanced Strength of Materials                  |
| 80                            | iv    | Kinematics of Machines                          |
| 81                            | v     | Design of Machine Elements I                    |
| 82                            | vi    | Manufacturing Processes II                      |
| 83                            | vii   | Heat and Mass Transfer                          |
| 84                            | viii  | Project and Production Management               |
| 85                            | ix    | Refrigeration and Air Conditioning              |
| 86                            | x     | Computer Aided Design and Manufacturing         |
| 87                            | xi    | Robotics  |
| 88                            | xii   | Finite Element Method                           |
| 89                            | xiii  | Introduction to Finite Element Method           |
| 90                            | xiv   | Principles of Mechanical Measurements           |
| 91                            | xv    | Fundamentals of Operations Research             |
| 92                            | xvi   | Dynamics of Machine                             |

### 3. LIST OF CDS OF NATIONAL GEOGRAPHIC (1888 To 1999)

| SR NO. | ACC NO. | TITLE   | AUTHOR              | COST   | LOCATION       |
|--------|---------|---|---------------------|--------|----------------|
| 1      | 37543   | NATIONAL GEOGRAPHIC INSTALL ME                                  | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 2      | 37544   | NATIONAL GEOGRAPHIC 1888-1909<br>Volume 1 1888 - April 1900     | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 3      | 37545   | NATIONAL GEOGRAPHIC 1888-1909 May<br>1900 - April 1906          | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 4      | 37546   | NATIONAL GEOGRAPHIC 1888-1909 May<br>1906 - December 1909       | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 5      | 37547   | NATIONAL GEOGRAPHIC The 1910s<br>January 1910 - April 1913      | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 6      | 37548   | NATIONAL GEOGRAPHIC The 1910s May<br>1913 - August 1916         | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 7      | 37549   | NATIONAL GEOGRAPHIC The 1910s<br>September 1916 - December 1919 | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 8      | 37550   | NATIONAL GEOGRAPHIC The 1920s<br>January 1920 - April 1923      | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 9      | 37551   | NATIONAL GEOGRAPHIC The 1920s May<br>1923 - August 1926         | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 10     | 37552   | NATIONAL GEOGRAPHIC The 1920s<br>September 1926 - December 1929 | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 11     | 37553   | NATIONAL GEOGRAPHIC The 1930s<br>September 1936 - December 1939 | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 12     | 37554   | NATIONAL GEOGRAPHIC The 1930s May<br>1933 - August 1936         | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 13     | 37555   | NATIONAL GEOGRAPHIC The 1930s<br>January 1930 - April 1933      | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 14     | 37556   | NATIONAL GEOGRAPHIC The 1940s<br>September 1946 - December 1949 | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 15     | 37557   | NATIONAL GEOGRAPHIC The 1940s May<br>1943 - August 1946         | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 16     | 37558   | NATIONAL GEOGRAPHIC The 1940s<br>January 1940 - April 1943      | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 17     | 37559   | NATIONAL GEOGRAPHIC The 1950s<br>January 1950 - April 1953      | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |
| 18     | 37560   | NATIONAL GEOGRAPHIC The 1950s May<br>1953 - August 1956         | NATIONAL GEOGRAPHIC | 232.81 | General Stacks |

|                     |       |   |                        |             |                |
|---------------------|-------|---|------------------------|-------------|----------------|
| 19                  | 37561 | NATIONAL GEOGRAPHIC The 1950s<br>September 1956 - December 1959 | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 20                  | 37562 | NATIONAL GEOGRAPHIC The 1960s<br>January 1960 - April 1963      | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 21                  | 37563 | NATIONAL GEOGRAPHIC The 1960s May<br>1963 - August 1966         | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 22                  | 37564 | NATIONAL GEOGRAPHIC The 1960s<br>September 1966 - December 1969 | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 23                  | 37565 | NATIONAL GEOGRAPHIC The 1970s<br>January 1970 - April 1973      | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 24                  | 37566 | NATIONAL GEOGRAPHIC The 1970s May<br>1973 - August 1976         | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 25                  | 37567 | NATIONAL GEOGRAPHIC The 1970s<br>September 1976 - December 1979 | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 26                  | 37568 | NATIONAL GEOGRAPHIC The 1980s<br>January 1980 - April 1983      | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 27                  | 37569 | NATIONAL GEOGRAPHIC The 1980s May<br>1983 - August 1986         | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 28                  | 37570 | NATIONAL GEOGRAPHIC The 1980s<br>September 1986 - December 1989 | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 29                  | 37571 | NATIONAL GEOGRAPHIC The 1990s<br>January 1990 - June 1993       | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 30                  | 37572 | NATIONAL GEOGRAPHIC The 1990s<br>July 1993 - December 1996      | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 31                  | 37573 | NATIONAL GEOGRAPHIC The 1990s<br>January 1997 - December 1998   | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| 32                  | 37574 | THE COMPLETE NATIONAL<br>GEOGRAPHIC THE YEAR IN REVIEW<br>1999  | NATIONAL<br>GEOGRAPHIC | 232.81      | General Stacks |
| <b>TOTAL AMOUNT</b> |       |   |                        | <b>7450</b> |                |

#### 4. LIST OF CDS OF ENCYCLOPEDIA BRITANNICA (2006)

| SR NO.              | ACC NO. | TITLE   | AUTHOR     | COST        | LOCATION       |
|---------------------|---------|---|------------|-------------|----------------|
| 1                   | 36382   | ENCYCLOPEDIA BRITANNICA 2006 : ULTIMATE REFERENCE SUIT CD | BRITANNICA | 415.83      | General Stacks |
| 2                   | 36383   | ENCYCLOPEDIA BRITANNICA 2006 : ULTIMATE REFERENCE SUIT CD | BRITANNICA | 415.83      | General Stacks |
| 3                   | 36384   | ENCYCLOPEDIA BRITANNICA 2006 : ULTIMATE REFERENCE SUIT CD | BRITANNICA | 415.83      | General Stacks |
| 4                   | 36385   | ENCYCLOPEDIA BRITANNICA 2006 : ULTIMATE REFERENCE SUIT CD | BRITANNICA | 415.83      | General Stacks |
| 5                   | 36386   | ENCYCLOPEDIA BRITANNICA 2006 : ULTIMATE REFERENCE SUIT CD | BRITANNICA | 415.83      | General Stacks |
| 6                   | 36387   | ENCYCLOPEDIA BRITANNICA 2006 : ULTIMATE REFERENCE SUIT CD | BRITANNICA | 415.83      | General Stacks |
| <b>TOTAL AMOUNT</b> |         |   |            | <b>2495</b> |                |