SYLLABUS: TGT Computer Science in DOE

1. Mathematics – I, II, III, IV.
2. Business Communication, Business Organization and Management, Writing.
3. Computer Basics and P.C. Software.
4. Programming with C, Data Structures using C, C++ Programming.
5. Fundamentals of Information Technology.
6. Basis of Physics.
7. Digital Electronics.
8. Database Management System.
9. Computer Architecture.
10. Front End Designed Tools.
11. Financial Accounting.
12. Object/Computer Oriented Programming/Numerical Techniques.
13. Software Engineering.
14. Java Programming and website design.
15. Operating Systems.
16. Business Economics.
17. Computer Networks.
18. .net programming.
19. Linux Environment.
20. E-Commerce.
21. Design and analysis of algorithms.
22. Computer Network Security.
23. Management Information System.
24. Mobile Computing.
25. Computer Graphics & Multimedia Applications – Graphics, Graphics Hardware, Clipping, Curve & Surfaces, Solid Modeling.
26. Internet Programming – Web Server, CSS, Event Model, Filter & Transitions, Data Binding with Tabular Data Control, PWS Setup, Publishing Information/Internet Information Server, DTD's using XML with XTML and CSS, XML parsers.
27. Knowledge Management & New Economy.
28. Foundation Course in English.
29. Problem Solving & Programming.
30. Statistical Techniques – Descriptive Statistics, Probability concepts, Probability Distributions, Inference.
31. TCP/Protocols.
32. Interpolation.

Topics of syllabus-Teaching Education and Methodology:-

1. Learning & Teaching
2. Language across the curriculum
3. Understanding discipline and subject
4. Gender school and Society
5. Pedagogy of a school subject
6. Knowledge and curriculum
7. Assessment for learning
8. Creating an inclusive school
9. Childhood and growing up
10. Drama and Art in Education