



GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

An Autonomous College under UGC Act 1956

Mentoring and Professional Development Proforma

B.Tech. (Academic Year:)

Name:....., Univ. Roll No.:.....

Branch:....., Semester:....., Section:.....

Note: Students are required to participate in different activities proposed under AICTE Activity Point Programme (see Annexure-I for detail) to become successful professionals with excellent soft skills, leadership qualities, team spirit as well to have entrepreneurial capabilities and societal commitment.

Instructions:

- Fill information/count of each activity and calculate marks as instructed in marks criterion.
- Fill information only of the current Academic year.
- Attach proof of each activity/event claimed. Without proof marks will not be considered.
- Filling of any false information and providing any forged document will lead to strict disciplinary action.

Section A (Conduct: Marks 10)

Is any disciplinary action taken against you in this Academic year?

a) UMC: Yes/No b) Misconduct: Yes /No c) Any Other (Give Detail):.....

Conduct marks (*to be filled by mentor*):.....

Note: Marks to be awarded to all students except against whom any disciplinary action is taken. Mentor to verify same.

Section B (Co-Curricular Activities: Max.Marks 60)

Item	Yes/No/NA	Specify Count	Total Marks	Marks Criterion																								
a) Hackathons		<p>Mention Highest Achievement in Case of Same Activity. Mention Participation only if no position is held in event.</p> <p><u>International Level</u></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3">Positions Held: (mention count)</td> </tr> <tr> <td>1st:<count></td> <td>2nd:<count></td> <td>3rd:<count></td> </tr> </table> <p>Participation (No position held):<count></p> <p><u>National Level</u></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3">Positions Held: (mention count)</td> </tr> <tr> <td>1st:<count></td> <td>2nd:<count></td> <td>3rd:<count></td> </tr> </table> <p>Participation (No position held): <count></p> <p><u>State Level</u></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3">Positions Held: (mention count)</td> </tr> <tr> <td>1st:<count></td> <td>2nd:<count></td> <td>3rd:<count></td> </tr> </table> <p>Participation (No position held): <count></p> <p><u>Institute Level</u></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3">Positions Held: (mention count)</td> </tr> <tr> <td>1st:<count></td> <td>2nd:<count></td> <td>3rd:<count></td> </tr> </table> <p>Participation (No position held): <count></p>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>		<p><u>International Level</u></p> <p>Positions Held: 1st: count×60 marks 2nd: count×58 marks 3rd: count×56 marks</p> <p>Participation: count×55 marks</p> <p><u>National Level</u></p> <p>Positions Held: 1st: count×55 marks 2nd: count×53 marks 3rd: count×51marks</p> <p>Participation: count×50 marks</p> <p><u>State Level</u></p> <p>Positions Held: 1st: count×50 marks 2nd: count×48 marks 3rd: count×46marks</p> <p>Participation: count×45 marks</p> <p><u>Institute Level</u></p> <p>Positions Held: 1st: count×45 marks 2nd: count×43 marks 3rd: count×41 marks</p> <p>Participation: count×15marks</p>
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b)Project developed and presented in an event outside institute benefiting society	Give Details:	5 marks per participation																								
c) Research Publications	Conferences:<no. of publications> Journals:<no. of publications>	5 marks per conference paper 10 marks per journal paper Additional 50 marks for SCI and 25 marks for Scopus publication																								
d) Technical Activities 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Mention Highest Achievement in Case of Same Activity. Mention Participation only if no position is held in event. <u>International Level</u> <table border="1"> <tr><td colspan="3">Positions Held: (mention count)</td></tr> <tr><td>1st:<count></td><td>2nd:<count></td><td>3rd:<count></td></tr> </table> Participation (No position held):<count> <u>National Level</u> <table border="1"> <tr><td colspan="3">Positions Held: (mention count)</td></tr> <tr><td>1st:<count></td><td>2nd:<count></td><td>3rd:<count></td></tr> </table> Participation (No position held): <count> <u>State Level</u> <table border="1"> <tr><td colspan="3">Positions Held: (mention count)</td></tr> <tr><td>1st:<count></td><td>2nd:<count></td><td>3rd:<count></td></tr> </table> Participation (No position held): <count> <u>Institute Level</u> <table border="1"> <tr><td colspan="3">Positions Held: (mention count)</td></tr> <tr><td>1st:<count></td><td>2nd:<count></td><td>3rd:<count></td></tr> </table> Participation (No position held): <count> <hr/> <u>Events Organised:</u> International Level: <count> National Level: <count> State Level: <count> Institute Level: <count> <u>Position Held in Committee</u> Convener/Co-Convener/ Secretary / Executive / Active Member:	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	<u>International Level</u> Positions Held: 1 st : count×60 marks 2 nd : count×58 marks 3 rd : count×56 marks Participation: count×55 marks <u>National Level</u> Positions Held: 1 st : count×55 marks 2 nd : count×53 marks 3 rd : count×51marks Participation: count×50 marks <u>State Level</u> Positions Held: 1 st : count×50 marks 2 nd : count×48 marks 3 rd : count×46marks Participation: count×45 marks <u>Institute Level</u> Positions Held: 1 st : count×45 marks 2 nd : count×43 marks 3 rd : count×41 marks Participation: count×15 marks <hr/> <u>Events Organised</u> International Level: count×50 National Level: count×40 State Level: count×30 Institute Level: count×10 <u>Position Held in Committee</u> Convener: 10 marks Co-Convener: 8 marks Secretary: 6 marks Executive Member: 5 marks Active Member: 3 marks
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<p>e) SWAYAM-NPTEL MOOC or other online Courses</p>		<p>Mention courses which are not claimed for minor degree/ honour degree/ open elective/ part of curriculum/ etc.</p> <p>Course – Online Platform:</p> <p>1).....</p> <p>2).....</p> <p>3).....</p> <p>4).....</p>	<p>Course weeks×04 marks</p> <p>Additional marks for following categories of SWAYAM-NPTEL:</p> <p>Star: 10 marks</p> <p>Topper in course: 5 marks</p> <p>Gold Category:4 marks</p> <p>Silver Category:3 marks</p> <p>Elite Category:2 marks</p>
<p>f) Startup Initiative</p> <p>Startup should be the fresh initiative of the student with he/she being in the lead role and it should be registered (DPIIT registered not earlier than two years from the date of claim) for working towards innovation, development, deployment or commercialization of new products, processes or services driven by technology or intellectual property.</p> <p>Registration of startup should be as per rules & regulations laid by Government of India (Refer https://www.startupindia.gov.in/)</p>		<p>Name of Startup:</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>Owner(s) Names:</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>Registration Details:</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>	<p>No. of Startups×60 marks</p>
<p>g) Professional Societies/ Bodies/ Chapters/ Clubs Membership</p>		<p>Name of Societies/Clubs:</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>	<p>7 marks per membership of International Professional Societies/ Bodies/ Chapters</p> <p>5 marks per membership of National Professional Societies/ Bodies/ Chapters</p> <p>3 Marks per club membership</p>
<p>h) Participation in Co-Curricular Activities Not Covered Above</p>		<p>Activity Details:</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>	<p>5 marks per activity participation</p>

Section C (Extra-Curricular Activities: Max. Marks 60)

Item	Specify Count	Total Marks	Marks Criterion																																				
a) Sports (Yes/No/NA)																																							
<p>Games:</p> <p>1.....</p> <p>2.....</p> <p>3.....</p> <p>4.....</p> <p>5.....</p> <p>6.....</p> <p>7.....</p> <p>8.....</p> <p>9.....</p> <p>10.....</p>	<ul style="list-style-type: none"> • Mention highest achievement in case of same game event. • Mention participation only if no position is held in game Event. <p><u>International Level</u></p> <table border="1"> <tr><td colspan="3">Positions Held: (mention count)</td></tr> <tr><td>1st:<count></td><td>2nd:<count></td><td>3rd:<count></td></tr> </table> <p>Participation (No position held):<count></p> <p><u>National Level</u></p> <table border="1"> <tr><td colspan="3">Positions Held: (mention count)</td></tr> <tr><td>1st:<count></td><td>2nd:<count></td><td>3rd:<count></td></tr> </table> <p>Participation (No position held): <count></p> <p><u>State Level</u></p> <table border="1"> <tr><td colspan="3">Positions Held: (mention count)</td></tr> <tr><td>1st:<count></td><td>2nd:<count></td><td>3rd:<count></td></tr> </table> <p>Participation (No position held): <count></p> <p><u>Inter-University Level</u></p> <table border="1"> <tr><td colspan="3">Positions Held: (mention count)</td></tr> <tr><td>1st:<count></td><td>2nd:<count></td><td>3rd:<count></td></tr> </table> <p>Participation (No position held): <count></p> <p><u>University Level</u></p> <table border="1"> <tr><td colspan="3">Positions Held: (mention count)</td></tr> <tr><td>1st:<count></td><td>2nd:<count></td><td>3rd:<count></td></tr> </table> <p>Participation (No position held): <count></p> <p><u>Institute Level</u></p> <table border="1"> <tr><td colspan="3">Positions Held: (mention count)</td></tr> <tr><td>1st:<count></td><td>2nd:<count></td><td>3rd:<count></td></tr> </table> <p>Participation (No position held): <count></p> <hr/> <p><u>Captain of Team: (Yes/ No)</u></p> <p>Game:.....</p> <p>Highest Level (International/ National/ Inter-University/ University/ Institute):</p> <p>.....</p> <p>.....</p>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>	Positions Held: (mention count)			1 st :<count>	2 nd :<count>	3 rd :<count>		<p><u>International Level</u></p> <p>Positions Held:</p> <p>1st: count×60 marks</p> <p>2nd: count×58 marks</p> <p>3rd: count×56 marks</p> <p>Participation: count×55 marks</p> <p><u>National Level/ Inter-University Level</u></p> <p>Positions Held:</p> <p>1st: count×55 marks</p> <p>2nd: count×53 marks</p> <p>3rd: count×51 marks</p> <p>Participation: count×50 marks</p> <p><u>State Level/ University Level</u></p> <p>Positions Held:</p> <p>1st: count×50 marks</p> <p>2nd: count×48 marks</p> <p>3rd: count×46marks</p> <p>Participation: count×45marks</p> <p><u>Institute Level</u></p> <p>Positions Held:</p> <p>1st: count×45 marks</p> <p>2nd: count×43 marks</p> <p>3rd: count×41 marks</p> <p>Participation: count×15 marks</p> <hr/> <p><u>Captain of Team:</u></p> <p>International/National/Inter-university/ University: 15 marks</p> <hr/> <p>Routine basis active involvement in sports related activities (Gym/ Swimming/ shooting etc.): Marks to be allotted by sports deptt. out of 30</p>
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b) Cultural (Yes/No/NA)																																							
<p>Cultural Events:</p> <p>1.....</p> <p>2.....</p> <p>3.....</p>	<ul style="list-style-type: none"> • Mention highest achievement in case of same cultural event. • Mention participation only if no position is held in cultural event. 		<p><u>International Level</u></p> <p>Positions Held:</p> <p>1st: count×60 marks</p> <p>2nd: count×58 marks</p> <p>3rd: count×56 marks</p>																																				

4.	International Level		Participation: count×55 marks
5.	Positions Held: (mention count)		National Level/
6.	1 st :<count> 2 nd :<count> 3 rd :<count>		Inter-University Level
7.	Participation (No position held):<count>		Positions Held:
8.	National Level		1 st : count×55 marks
9.	Positions Held: (mention count)		2 nd : count×53 marks
10.	1 st :<count> 2 nd :<count> 3 rd :<count>		3 rd : count×51 marks
	Participation (No position held):<count>		Participation: count×50 marks
	State Level		State Level
	Positions Held: (mention count)		Positions Held:
	1 st :<count> 2 nd :<count> 3 rd :<count>		1 st : count×50 marks
	Participation (No position held):<count>		2 nd : count×48 marks
	Inter-University Level		3 rd : count×46 marks
	Positions Held: (mention count)		Participation: count×45 marks
	1 st :<count> 2 nd :<count> 3 rd :<count>		University Level
	Participation (No position held):<count>		Positions Held:
	University Level		1 st : count×45 marks
	Positions Held: (mention count)		2 nd : count×43 marks
	1 st :<count> 2 nd :<count> 3 rd :<count>		3 rd : count×41 marks
	Participation (No position held):<count>		Participation: count×40 marks
	Institute Level		Institute Level
	Positions Held: (mention count)		Positions Held:
	1 st :<count> 2 nd :<count> 3 rd :<count>		1 st : count×40 marks
	Participation (No position held):<count>		2 nd : count×38 marks
	Institute Level		3 rd : count×36 marks
	Positions Held: (mention count)		Participation: count×15 marks
	1 st :<count> 2 nd :<count> 3 rd :<count>		
	Participation (No position held):<count>		

c) NCC (Yes/No/NA)

Achievements	<p>Highest Achievement only out of followings:</p> <ul style="list-style-type: none"> • National Level Republic Day Parade Camp • Senior Under officer (SUO) • Under officer (UO) • Other Ranks • Best Cadet National Level • Best Cadet State Level • Best Cadet Group Level • C – Certificate • B – Certificate <p>Mention Major Achievement:</p> <p>.....</p> <p>.....</p>		<p>National Level Republic Day Parade Camp: 60 marks</p> <p>SUO: 55 marks</p> <p>UO: 45 marks</p> <p>Other Ranks: 35</p> <p>Best Cadet National Level: 55 marks</p> <p>Best Cadet State Level: 50marks</p> <p>Best Cadet Group Level: 45 marks</p> <p>C – Certificate: 40 marks</p> <p>B – Certificate: 30 marks</p> <p>NCC Enrollment: 15 marks</p> <p>25 marks per achievement in NCC on recommendation of College NCC Incharge</p>
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d) NSS (Yes/No/NA)

Activities like – One student one tree, Jal Shakti Abhiyan, Blood Donation, Swachh Bharat Abhiyan, Community Service, Social internship and	Participation/Camps Attended:		5 marks per Participation
		25 marks per week camp attended
		

Section D (Continuous Evaluation of Class Activities: Marks 15)

Student will be awarded marks for continuous evaluation and attendance of ‘Mentoring and Professional Development’ class during Academic Year. *(Marks to be awarded by mentor)*

Section E (Induction Program / Aptitude Test/Competitive Exam: Marks 15)

Marks will be awarded as per following:

Sr. No.	Year	Activity
1.	1 st Year	Marks will be awarded based on participation/performance of student during induction program at the start of session. The marks will be compiled by Applied Science Department.
2.	2 nd and 3 rd Year	Marks will be awarded based on performance in Aptitude Tests. The aptitude tests will be conducted as per notification issued by authority.
3.	4 th Year	Marks will be awarded based on: <ul style="list-style-type: none"> • Performance in competitive examinations, like – IES, GATE, GRE, GMAT, CAT, UPSC, State Services, Armed Forces, etc. • Holistic development/ inculcation of human values/ Industrious development of student during the entire term in the institute.

Dated:

Signature of the student

.....

(For Office Use)

Marks awarded by mentor after verification of marks claimed by student:

Section A (10 marks)	Section B (60 marks)	Section C (60 marks)	Section D (15 marks)	Section E (15 marks)	Total* (Max. marks: 100)
-----/(out of 10)	-----/(out of 60)	-----/(out of 60)	-----/(out of 15)	-----/(out of 15)	-----/(out of 100)
	<i>Note: Fill combined marks of Section B and Section C and marks should not exceed 60</i>				

*Maximum marks should not exceed 100.

Signature of the Mentor

Name of Mentor:.....

AICTE ACTIVITY POINT PROGRAMME

Sub Activity Head

- Prepare and implement plan to create local job opportunities
- Prepare and implement plan to improve education quality in village.
- Preparing an actionable DPR for Doubling the village Income
- Developing Sustainable Water Management system.
- Prepare and Improve a plan to improve health parameters of villagers
- Developing and implementing of Low Cost Sanitation facilities
- Prepare and implement plan to promote Local Tourism through Innovative Approaches
- Implement/Develop Technology solutions which will improve quality of life
- Prepare and implement solution for energy conservation
- Prepare and implement plan to Skill village youth and provide employment
- Develop localized techniques for Reduction in construction Cost
- Prepare and implement plan of sustainable growth of village
- Setting of Information imparting club for women leading to contribution in social and economic issues
- Developing and managing Efficient garbage disposable system
- Contribution to any national level initiative of Government of India. For eg. Digital India/ Skill India/ Swachh Bharat Internship etc.

Guru Nanak Dev Engineering College, Ludhiana

An Autonomous College under UGC Act 1956

B.Tech. (Common for all Branches)

Course Code: MPD102

Course Title: Mentoring and Professional Development

Programme: B.Tech.	Semester: 3	Total Max. Marks: 15
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Contents

Part-A

Unit I: Quantitative Aptitude

Number System, H.C.F. and L.C.M. of Numbers, Decimal Fractions, Simplification, Square Roots and Cube Roots, Average, Problems on Numbers, Problems on Ages

Unit II: Data Interpretation

Tabulation, Bar Graphs

Unit III: Verbal Reasoning

Series Completion, Analogy, Classification, Coding–Decoding, Alphabet Test, Alpha-Numeric Sequence, Direction Sense Test, Blood Relations

Part-B

Unit IV: Non-Verbal Reasoning

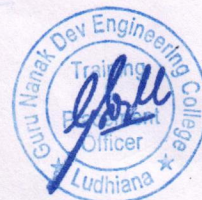
Series, Analogy, Classification, Mirror Images, Water Images, Embedded Figures

Unit V: English

Synonyms, Antonyms, Homonyms, One-Word Substitution, Vocabulary Test, Idioms and Phrases, Spelling Test

Unit VI: Programming for Problem Solving

Introduction to Computer Fundamentals, Computer System Components, Memory Devices, Storage Devices, Types of Software, Operating System and its Types, Compiler, Interpreter, Assembler, Linker, Loader, Concept of Algorithm, Steps to Solve Logical and Numerical Problems, Algorithms, Flowcharts, Pseudocode with Examples



Guru Nanak Dev Engineering College, Ludhiana

An Autonomous College under UGC Act 1956

B.Tech. (Common for all Branches)

Course Code: MPD102

Course Title: Mentoring and Professional Development

Programme: B.Tech.	Semester: 4	Total Max. Marks: 15
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Part-A

Unit I: Quantitative Aptitude

Percentage, Profit and Loss, Ratio and Proportion, Partnership, Chain Rule, Alligation or Mixture, Simple Interest, Compound Interest

Unit II: Data Interpretation

Pie Charts, Line Graphs

Unit III: Verbal Reasoning

Puzzle Test, Sequential Output Tracing, Number Ranking and Time Sequence Test, Mathematical Operations, Logical Sequence of Words, Statement and Arguments, Statement and Assumptions

Part-B

Unit IV: Non-Verbal Reasoning

Completion of Incomplete Pattern, Figure Matrix, Paper Folding, Paper Cutting, Rule Detection

Unit V: English

Sentence Completion, Passage Completion, Choosing Appropriate Fillers, Common Errors and How to Avoid Them, Spotting Errors, Sentence Improvement

Unit VI: Programming for Problem Solving

Basic Structure of C++ Program, Compilation and Execution of C++ Program, Character Set, Tokens, Identifiers, Keywords, Variables, Literals, Constants, Data Types, Types of Errors in C++ Programs, Assignment Operators, Arithmetic Operators, Numeric Operators, Prefix Operators, Postfix Operators, Binary Number System, Bitwise Operators



Guru Nanak Dev Engineering College, Ludhiana

An Autonomous College under UGC Act 1956

B.Tech. (Common for all Branches)

Course Code: MPD103

Course Title: Mentoring and Professional Development

Programme: B.Tech.	Semester: 5	Total Max. Marks: 15
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PART-A

Unit I: Quantitative Aptitude

Time and Work, Pipes and Cisterns, Time and Distance, Boats and Streams, Problems on Trains, Area, Volume and Surface Area, Races and Games of Skill

Unit II: Data Interpretation

Mixed Graphs, Moderate Data Interpretation Sets

Unit III: Verbal Reasoning

Statement and Courses of Action, Statement and Conclusions, Cause and Effect Reasoning, Theme Detection, Deriving Conclusions from Passages

PART-B

Unit IV: Non-Verbal Reasoning

Grouping of Identical Figures, Cubes and Dice, Dot Situation, Construction of Squares and Triangles, Figure Formation and Analysis

Unit V: English

Reconstruction of Sentences, Rearrangement of Sentences in a Paragraph, Reconstruction of Paragraphs, Rearrangement of Jumbled Parts, Word Formation

Unit VI: Programming for Problem Solving

Logical Operators, Relational Operators, Short-Circuit Operators, sizeof Operator, Operator Precedence and Associativity, Type Conversion, Conditional Statements if and if-else, Conditional Operator (?), switch Statement, Nested Decision Statements, Looping Statements for while and do-while, Nested Loops, Loop Control Statements break and continue, goto and Labeled Statements, switch, case, default



Guru Nanak Dev Engineering College, Ludhiana

An Autonomous College under UGC Act 1956

B.Tech. (Common for all Branches)

Course Code: MPD103

Course Title: Mentoring and Professional Development

Programme: B.Tech.	Semester: 6	Total Max. Marks: 15
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PART-A

Unit I: Quantitative Aptitude

Surds and Indices, Logarithms, Permutations and Combinations, Probability, Calendar, Clocks, Stocks and Shares, True Discount, Banker's Discount, Heights and Distances, Odd Man Out and Series

Unit II: Data Interpretation

Advanced Data Interpretation Sets, Time-Bound Practice Tests

Unit III: Verbal Reasoning

Data Sufficiency, Eligibility Test, Assertion and Reason, Situation Reaction Test, Verification of Truth of Statement, Logical Deduction

PART-B

Unit IV: Non-Verbal Reasoning

Analytical Reasoning, Advanced Pattern Recognition, Mixed Non-Verbal Reasoning Sets

Unit V: English

Active and Passive Voice, Direct and Indirect Speech, Transformation of Sentences, Passage Correction, Choosing Correct and Incorrect Sentence

Unit VI: Programming for Problem Solving

Functions, Need of Functions, Components of Functions, Built-in Functions, User-Defined Functions, Parameter Passing Call by Value and Call by Reference, Scope Rules, Default Arguments, Function Overloading, Recursion, Recursion versus Iteration, Single Dimensional Arrays, Multi-Dimensional Arrays, Array Operations, Character Arrays, Strings, String Operations, Pointers, Structures, Structure Operations, Nested Structures, Array of Structures, typedef, Unions, Structure versus Union



Textbooks

1. R. S. Aggarwal, *Quantitative Aptitude for Competitive Examinations*, Revised ed., S. Chand Publishing, 2025.
2. R. S. Aggarwal, *A Modern Approach to Non-Verbal Reasoning*, latest edition S. Chand Publishing
3. R. S. Aggarwal, *Objective General English* S. Chand Publishing
4. Neetu Singh | *English for General Competitions* | Updated 2025 Edition | KD Publication
5. Y. Kanetkar, *Let Us C*, Latest Edition, BPB Publications.

Online Resources / Reference Websites

1. IndiaBIX, "Aptitude, Logical Reasoning and Verbal Ability," Available: <https://www.indiabix.com/> (accessed 2025).
2. Testbook, "Quantitative Aptitude, Reasoning and English Practice," Available: <https://testbook.com/> (accessed 2025).
3. British Council, "Learn English – Grammar, Vocabulary and Reading," Available: <https://learnenglish.britishcouncil.org/> (accessed 2025).
4. NPTEL Course: Developing Soft Skills and Personality, IIT Kanpur Prof. T Ravichandran <https://nptel.ac.in/courses/109104107>
5. NPTEL Course: Getting Started with Competitive Programming By Prof. Neeldhara Misra, IIT Gandhinagar https://onlinecourses.nptel.ac.in/noc26_cs69/preview
6. NPTEL Course: English Language for Competitive Exams By Prof. Aysha Viswamohan IIT Madras https://onlinecourses.nptel.ac.in/noc26_hs74/preview
7. NPTEL Course: Problem Solving Through Programming In C By Prof. Anupam Basu IIT Kharagpur https://onlinecourses.nptel.ac.in/noc26_cs53/preview
8. LeetCode, "Coding Interview Questions and Programming Practice," Available: <https://leetcode.com/> (accessed 2025).
9. HackerRank, "Coding Challenges and Skill Certification Platform," Available: <https://www.hackerrank.com/> (accessed 2025).
10. InterviewBit, "Programming Interview Preparation and Coding Practice," Available: <https://www.interviewbit.com/> (accessed 2025).



11. CodeChef, "Competitive Programming Platform," Available: <https://www.codechef.com/> (accessed 2025).
12. GeeksforGeeks, "Practice Coding Problems and Interview Preparation," Available: <https://practice.geeksforgeeks.org/> (accessed 2025).
13. Codeforces, "Competitive Programming Contests and Problem Sets," Available: <https://codeforces.com/> (accessed 2025).
14. Exercism, "Programming Practice with Mentorship and Guided Learning," Available: <https://exercism.org/> (accessed 2025).

