

C P PATEL AND F H SHAH COMMERCE (AUTONOMOUS) COLLEGE, ANAND
AFFILIATED TO SARDAR PATEL UNIVERSITY, VVNAGAR
NAAC Reaccredited - CGPA 3.30 - GRADE 'A+' UGC - MHRD, Govt of India
Syllabus as per NEP 2020 with Effect from December – 2023
Bachelor of Vocation (Software Development)
Semester - II

Course Code	BVS02MAC01	Title of the Course	Problem Solving with Advanced Programming
Total Credits of the Course	4	Hours per Week	4

Course Objectives:	To understand 1. Concepts of functions, structures and unions. 2. The fundamentals of pointers and file handling.
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Course Content		
Unit	Description	Weightage *(%)
1.	User-Defined Functions – Introduction and need of user-defined functions – Components of user-defined functions – Methods of passing parameters to functions – Recursion	25%
2.	Structures, Unions and Command-Line Arguments – Introduction to structures – Structures and arrays – Structures within structures – Structures and functions – Unions – Command-Line Arguments	25%
3.	Usage of Pointers – Introduction, usage and understanding of pointers – Declaration and initialization of pointer variables – Accessing variables through pointers – Chain of Pointers (Pointer to Pointer) – Pointers and arrays – Pointers as function arguments – Pointers and structures – Dynamic memory allocation	25%

4.	Usage of File Handling <ul style="list-style-type: none"> – Introduction to file handling – File access modes – Input Output operations on files – Error handling during I/O operations 	25%
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Teaching-Learning Methodology	Blended learning approach incorporating both traditional classroom teaching as well as usage of ICT tools.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage *(%)
1.	Internal Written/Practical Examination	50%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments.	
3.	External Examination	50%

Course Out comes: Having completed this course, the learner will be able to	
1.	Implement programs based on the concepts of functions, structures and unions.
2.	Implement the programs based on pointers and work with files.

Suggested References:	
Sr. No.	References
1.	Brian Kernighan and Dennis Ritchie : The C Programming Language
2.	Balaguru swami : Programming in ANSI C., Tata McGraw Hill Publication, 2019
3.	Kernighan B., Ritchie D.: The C Programming Language, Prentice Hall, 1988.
4.	Cooper H. & Mullish H: The Sprit of C, Jaico Publication House, New Delhi, 1988.

Syllabus as per NEP 2020 with Effect from December – 2023
Bachelor of Vocation (Software Development)
SEM-II

Course Code	BVS02MAC02	Title of the Course	Problem Solving with Advanced Programming Practical Lab
Total Credits of the Course	4	Hours per Week	4

Course Objectives:	<ol style="list-style-type: none"> 1. To study the concepts of functions, structures and unions in C programming language. 2. To understand and the concepts of pointers and file handling.
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Course Content		
Sr. No.	Description	Weightage *(%)
1.	Practical Based on Problem Solving with Advanced Programming (BVS02MAC01)	100%

Teaching – Learning Methodology	Project work in small groups, Hands on Training ICT tools.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage *(%)
1.	Internal Written/Practical Examination	50%
2.	Internal Continuo us Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	
3.	External Examination	50%

Course Out comes : Having completed this course, the learner will be able to	
1.	Implement programs based on concepts of functions, structures and unions in C programming language.
2.	Implement programs based on concepts of pointers and file handling.

Syllabus as per NEP 2020 with Effect from December – 2023
Bachelor of Vocation (Software Development)
SEM-II

Course Code	BVS02MIC03	Title of the Course	Web Application Development using HTML
Total Credits of the Course	2	Hours per Week	2

Course Objectives:	1. To learn the basic concepts of DHTML. 2. To study fundamentals of CSS and Scripting language.
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Course Content		
Unit	Description	Weightage *(%)
1.	DHTML & Cascading Style Sheet – Introduction to DHTML, Applications of DHTML – Components of DHTML, – Introduction to Cascading Style Sheets (CSS) – Ways of specifying style – inline, internal, external – Basic Syntaxes, ID and CLASS selector, SPAN, DIV – Fonts, Color, Background, Text, Border, Lists, Layers, Margin, Links, Position.	50%
2.	Introduction to Scripting – Introduction to Scripting – Client Side Scripting vs. Server Side Scripting – How the Web works – Introduction to JavaScript – Applications and Advantages of JavaScript – Using JavaScript on a webpage	50%

Teaching - Learning Methodology	Blended learning approach incorporating both traditional classroom teaching as well as usage of ICT tools.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage *(%)
1.	Internal Written/Practical Examination	50%
2.	Internal Continuous Assessment in the form of Practical, Viva -voce, Quizzes, Seminars, Assignments, Attendance	
3.	External Examination	50%

Course Out comes : Having completed this course, the learner will be able to

1.	Understand the basic concepts of DHTML, CSS and Scripting.
2.	Carry out web page development with the use of DHTML and CSS.

Suggested References:

Sr. No.	References
1.	Ivan Bayross, "Web Enabled Commercial Applications Development using HTML, DHTML, Javascript, Perl CGI", BPB, 2004.
2.	Douglas E Comer: The Internet, PHI, Second Edition, May 2000.
3.	Wilton P., Jeremy McPeak: Beginning JavaScript, 4th Ed., Wiley Pub., 2010
4.	Danny Goodman, Machael Morrison: "JavaScript Bible", 6th Ed., Wiley Pub., 2010.
5.	Kogent Learning Solution Inc., "HTML5 Black Book", 2016.

Syllabus as per NEP 2020 with Effect from December – 2023
Bachelor of Vocation (Software Development)
SEM-II

Course Code	BVS02MIC04	Title of the Course	Web Application Development using HTML Practical Lab
Total Credits of the Course	2	Hours per Week	4

Course Objectives:	<ol style="list-style-type: none"> 1. To study the basic concepts of scripting. 2. To acquire knowledge of CSS.
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Course Content		
Sr. No.	Description	Weightage *(%)
1.	Practical Based on Web Application Development using HTML (BVS02MIC03)	50%

Teaching-Learning Methodology	Blended learning approach incorporating both traditional classroom teaching as well as usage of ICT tools.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage *(%)
1.	Internal Written/Practical Examination	50%
2.	Internal Continuous Assessment in the form of Practical, Viva -voce, Quizzes, Seminars, Assignments, Attendance	
3.	External Examination	50%

Course Out comes : Having completed this course, the learner will be able to	
1.	Implement different concepts of scripting.
2.	Implement the knowledge of the fundamentals of DHTML,CSS.

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Bachelor of Vocation (Software Development)
SEM-II

Course Code	BVS02MDC05	Title of the Course	Mathematics
Total Credits of the Course	2	Hours per Week	2

Course Objectives:	<ol style="list-style-type: none"> 1. Review the key Mathematics concepts that students should be familiar with in order to solve quantitative problems. 2. To illustrate and to teach students the Mathematical functions and formulas that facilitates the application.
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Course Content		
Unit	Description	Weightage *(%)
1	Sets and Functions <ul style="list-style-type: none"> – Set operations, algebra of sets, finite sets, power set, symmetric difference, Duality and applications. – Functions, composition of functions, one to one, onto and invertible functions, recursively defined functions - factorial and applications 	50%
2	Matrices and Data Analysis I <ul style="list-style-type: none"> – Vectors in ∇n, dot product and norm on ∇n – Matrix - addition, multiplication, scalar multiplication, transpose, symmetric and skew symmetric matrices, upper and lower triangular matrices, and its applications upto order 3 – Construction of Frequency distribution – Measures of central tendency - mean, median, mode, geometric and harmonic means. 	50%

Teaching-Learning Methodology	<ol style="list-style-type: none"> 1. ICT Based Teaching Learning Approach 2. Blended Teaching Learning Approach for Calculation.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage *(%)
1.	Internal Written/Practical Examination	50%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	
3.	External Examination	50%

Course Out comes : Having completed this course, the learner will be able to	
1.	Students will be able to take us course of Calculus of multivariable functions.
2.	To study logical analysis in the field of computer science and data evaluation.
3.	To understand the concept of Matrix.

Suggested References :	
Sr. No.	References
1.	S. Lipschutz and M. I. Lipson, Discrete Mathematics, Schaum's Series (International Edition 1992).
2.	S. C Gupta, Fundamentals of Statistics, Himalaya Publishing House 2004.
3.	S. P Gupta, Statistical Methods, Sultan Chan and sons, 2004

Syllabus as per NEP 2020 with Effect from December – 2023
Bachelor of Vocation (Software Development)
SEM-II

Course Code	BVS02MDC06	Title of the Course	Mathematics Practical Lab
Total Credits of the Course	2	Hours per Week	2

Course Objectives:	<ol style="list-style-type: none"> 1. Review the key Sets and Functions concepts that students should be familiar with in order to solve mathematical Problem. 2. To illustrate and to teach students the Matrices and Data Analysis.
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Course Content		
Sr. No.	Description	Weightage *(%)
1.	Practical Based on Mathematics (BVS02MDC05)	50%

Teaching-Learning Methodology	<ol style="list-style-type: none"> 1. ICT Based Teaching Learning Approach 2. Blended Teaching Learning Approach for Mathematical Calculation.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage *(%)
1.	Internal Written / Practical Examination	50%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	
3.	External Examination	50%

Course Out comes : Having completed this course, the learner will be able to	
1.	Students will be able to take us course of mathematical calculation.
2.	To study logical analysis in the field of computer science and data evaluation.
3.	To understand the concept of Matrix.

Syllabus as per NEP 2020 with Effect from December – 2023
Bachelor of Vocation (Software Development)
SEM-II

Course Code	BVS02AEC07	Title of the Course	Business Communication - II
Total Credits of the Course	2	Hours per Week	4

Course Objectives:	<ol style="list-style-type: none"> 1. To understand and use notions and functions of language for communicative purpose. 2. To prepare reports of various events. 3. To draft e-mails efficiently. 4. To prepare effective job application and resume and face interviews confidently. 5. To make healthy discussion by actively participating in debates or group discussions. 6. To prepare and make power point presentation on various occasions
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Course Content		
Unit	Description	Weightage *(%)
1.	<p>Oral Communication Skills & Job Skills</p> <ul style="list-style-type: none"> – Effective presentation Skills; Putting the message across, Body Language, – Proxemics and Kinesics, dealing with Nearves, Using Visual Aids – Language of Meetings and participating in a seminar Telephone Techniques – Writing Job Application and CV – Interview Skills i.e., General Preparation for an Interview, Types of Questions generally asked in interviews, Types of interviews, Importance of non-verbal aspect. – Self-development Skills: i.e., Assertiveness, Stress Management, Time Management – Interpersonal Skills: Team Development Skills i.e., Team Talk Dynamics, Communication in Teams, Leadership Skills, Giving Feedback (Johari Window etc.) 	50%

2	<p>Writing Skills and Individual Project</p> <ul style="list-style-type: none"> – Issues in Writing Business Letters i.e., Structure and Types of Business – Letters, Letters of Inquiry, Complaint, Adjustment and Regret – Report Writing Skills i.e., Types of Reports, Characteristics of a Good Report, Preparing and Organizing a Report and Individual reports (a report about the need to computerize the activities of your department) – Students can be made to work individually on detailed projects based on the following topics. However, the list given below is not exhaustive and thus any topic related to the areas of Communication and Personality Development can be worked upon in the interest of the students: – Process of Communication – Barriers of Communication – Types of Communication – Objectives of Communication – Stress Management – Time Management – Leadership Quality – Teamwork – Body Language – Presentation Skills – Group Discussion Skills – Personal Interview Skills – Feedback Skills 	50%
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Teaching-Learning Methodology	Blended learning approach incorporating both traditional classroom teaching as well as usage of ICT tools.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage *(%)
1.	Internal Written/Practical Examination	50%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	
3.	External Examination	50%

Test Method:		
Division of Marks (External Exam)		
1.	Individual Presentation and Project	10 Marks
2.	Note Taking and Note Making	10 Marks
3.	Job Application and CV	10 Marks
4.	Business Letters	10 Marks
5.	Report Writing	10 Marks
Total:		50 Marks

Note:

- The students will have to bring certified copy of his / her project manuscript to the centre of external examination for the perusal of examiners and respond to the queries and questions of examiners related to same. The topic for the project should be selected from the ones enlisted in syllabi of the First and Second Semesters.
- Individual Presentations will have to be done by the students orally on the topic of their project. The presentation should not exceed five minutes.
- On We Go (6 above) is to be used for Note-taking and Note-making exercises.

Course Out comes : Having completed this course, the learner will be able to	
1.	Understand and use notions and functions of language for communicative purpose.
2.	Prepare reports of various events.
3.	Draft e-mails efficiently.
4.	Prepare effective job application and resume and face interviews confidently.
5.	Make healthy discussion by actively participating in debates or group discussions.
6.	Prepare and make power point presentation on various occasions.

Suggested Referensces :	
Sr.No.	References
1.	Rajendra Pal and J S Korlahalli, essentials of Business Communication, Sultan Chand and sons www.britishcouncil.com
2.	Chrissie Wright, Communication Skills, Jaico Publication.
3.	Sunita Mishra and C. Murali Krishna, Communication Skills for Engineers Pearson Education.
4.	Meenakshi Raman and Sangita Sharma, Technical Communication; Principles and Practice, Oxford University Press.
5.	On We Go, BBC's Audio-Visual Course.

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Bachelor of Vocation (Software Development)
SEM-II

Course Code	BVS02SEC08	Title of the Course	Information Technology Fundamentals – II
Total Credits of the Course	2	Hours per Week	2

Course Objectives:	<ol style="list-style-type: none"> 1. To impart basic knowledge on Internet, web browsers, search engines and social networks 2. To learn different types of communication technologies 3. To study fundamental concepts related to computer networks
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Course Content		
Unit	Description	Weightage *(%)
1	Internet Usage for E-learning – Introduction to Internet and Web Browsers – Basics of search engines and their functionalities, searching information, saving web pages, downloading files, etc. – Open learning sites- Wikipedia, Wikispaces, Wikieducator etc. – Open freewares – Introduction and examples – Advanced Social Networking	50 %
2	Communication Technologies – Different communication mechanisms – E-mail: Writing e-mails to single and multiple users, attaching a file, Marking CC and BCC, Creating exclusive communication groups – LCD Projectors: Using LCD projectors for making an audiovisual presentation – Tele/Video Conferencing – Blogging and chatting – Fax and Mobiles	50 %

Teaching-Learning Methodology	Multiple teaching approaches: lecture and discussion, exploration and inquiry, cooperative group work, demonstrations, and presentations
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage *(%)
1	Internal Written/Practical Examination Internal Continuous Assessment in the form of Practical, Viva voce, Quizzes, Seminars, Assignments, Attendance	50%
2	External Examination	50%

Course Out comes : Having completed this course, the learner will be able to	
1	Understand the basics of Information and communication technology
2	Explore the applications of ICT in infrastructure

Suggested References :	
Sr. No.	References
1.	Online relevant references.
2.	Behrouz Forouzan, introduction to data communications and networking, Tata McGraw-Hill Publishing co. Ltd., New Delhi, 1998, 4th edition.
3.	Tanenbaum A. S., Computer Networks, 3rd Edition Prentice-Hall of India Pvt. Ltd., New Delhi, 1997.

Syllabus as per NEP 2020 with Effect from December – 2023
Bachelor of Vocation (Software Development)
SEM-II

Course Code	BVS02VAC01	Title of the Course	Environmental Studies
Total Credits Of the Course	2	Hours per Week	2

Course Objectives:	<p>The course will enable the student teachers to</p> <ol style="list-style-type: none"> 1. To aware the students about Environmental effects on human beings 2. Natural resources and its Impact 3. Provide Information on Renewable resources
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Course Content		
Unit	Description	Weightage* (%)
1	<p>Introduction to Environmental studies, Ecosystems and Natural Resources</p> <ul style="list-style-type: none"> – Definition, Scope and importance of Environmental Studies – Multidisciplinary nature of environmental studies – Component of Environment: Atmosphere, Hydrosphere, Lithosphere, Biosphere – Biogeochemical cycles: Carbon cycle and Nitrogen cycle – Concept of sustainability and sustainable development. – Definition and Structure of ecosystem – Abiotic and Biotic components – (Producers, Consumers and Decomposers) – Functions of Ecosystem: Energy flow in an ecosystem, Food chains, Food webs with examples – Classification -Renewable & Non-renewable Resources and types 	50 %
2	<p>Biotic Interactions</p> <ul style="list-style-type: none"> – Positive Interactions with suitable examples – A. Mutualism – B. Commensalism – C. Proto-cooperation – Negative Interactions with suitable examples – A. Exploitation – B. Competition – C. Antibiosis 	50 %

Teaching-Learning Methodology	Lecture-cum-discussion, Group Discussion, Presentations, Seminars, tutorials, Research Exercises
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage *(%)
1.	Internal Written/Practical Examination	50%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	
3.	External Examination	50%

Course Out comes: Having completed this course, the learner will be able to	
1.	To know Equitable use of resources for sustainable lifestyles
2.	Significance of Environment
3.	Forest & Water Resources in India
4.	Role of Individual in conservation of Natural Resources

Suggested References:	
Sr. No.	References
1.	Social Learning in Environmental Management: Towards a Sustainable Future by Meg Keen, Valerie A. Brown, Rob Dyball
2.	Principles of Environmental Science by William P. Cunningham and Mary Ann Cunningham
3.	Principles of Environmental Science by William P. Cunningham and Mary Ann Cunningham
4.	Lad, V., & Frawley, D. (1986). The Yoga of Herbs: An Ayurvedic Guide to Herbal Medicine. Lotus Press.
5.	Environmental Studies From Crisis to Cure by R. Rajagopalan

Syllabus as per NEP 2020 with Effect from December – 2023
Bachelor of Vocation (Software Development)
SEM-II

Course Code	BVS02VAC02	Title of the Course	NCC-I
Total Credits Of the Course	2	Hours per Week	2

Course Objectives	<ul style="list-style-type: none"> ❖ Course Content Part (I) Theory ❖ Course Content Part (II) Practical ❖ Course Objectives: <ul style="list-style-type: none"> ➤ Cadets will be able to: - Know about the history of NCC and Awareness of Nation. ➤ its organization, and incentives of NCC for their career prospects.
	<ul style="list-style-type: none"> ➤ Acquire knowledge of duties and conduct of NCC cadets ➤ Understand about different NCC camps and their conducts.
	<ul style="list-style-type: none"> ➤ Understand the concept of national integration and its importance. ➤ Understand the concept of self-awareness and emotional intelligence.
	<ul style="list-style-type: none"> ➤ Understand the concept of critical & creative thinking. ➤ Understand the process of decision making & problem solving.
	<ul style="list-style-type: none"> ➤ Understand the concept of team and its functioning. ➤ Understand the concept and importance of Social service.

Course Content Course Content Part (I) Theory		
Unit	Description	Weightage (%)
1.	Unit 1- NCC General & National Integration Awareness (NI). <ul style="list-style-type: none"> ❖ Incentives of NCC, Duties of NCC Cadet. NCC Camps: Types & Conduct. ❖ National Integration: Importance & Necessity, Factors Affecting National Integration, Unity in Diversity & Role of NCC in Nation Building, Threats to National Security. 	25 %
2.	Unit 2- Personality Development & Military History. <ul style="list-style-type: none"> ❖ Intra & Interpersonal skills - Self-Awareness- & Analysis, Empathy, Critical & creative thinking, Decision making and problem solving. ❖ Study Of Battles of Indo-Pak Wars 1965 & 1971, Acquire awareness about the basic weapon system in use in the Armed Forces. 	25 %

Course Objectives	<ul style="list-style-type: none"> ❖ Course Content Part (I) Theory ❖ Course Content Part (II) Practical ❖ Course Objectives:
	<ul style="list-style-type: none"> ➤ Understand that drill as the foundation for discipline and to command a group for common goal.
	<ul style="list-style-type: none"> ➤ Understand the importance of a weapon its detailed safety precautions necessary for prevention of accidents.
	<ul style="list-style-type: none"> ➤ Develop awareness about different types of terrain and how it is used in battle craft.
	<ul style="list-style-type: none"> ➤ Develop the concept of various markings on the map and how they are co-related to the ground features.

Course Content Course Content Part (II) Practical		
Unit	Description	Weightage (%)
1.	Unit 1. Drill, Weapon Training <ul style="list-style-type: none"> ❖ Foot Drill Dahiea, Bayne, Aage aur Piche Kadam Lena, Chal se Murdna, Tej Chal se Salute Karna, Tej Kadam Taal aur Tham, Tej Kadam Taal se Kadam Badalna. Teeno Teen se Ek File aur ek file se Teeno Teen Banana ❖ Weapon Training Range procedure & Theory of group, Short Range firing. 	25 %
2.	Unit 2. Map Reading & Field Craft & Battle Craft <ul style="list-style-type: none"> ❖ Protractor Bearing and its conversion methods, Service protractor and its uses., Prismatic compass and its uses and GPS, Navigation by compass and GPS. ❖ Field Craft & Battle Craft indications of landmarks and Targets, Intro, Definitions, Types of Ground, Indication of Landmarks, Methods of ident of targets, difficult targets. 	25 %

Teaching-Learning Methodology	Classroom teaching and learning Ground –Based learning (Practical) Project-Based Learning Problem-Based Learning Inquiry-Based Learning Group Discussion. Collaborative Learning Ground work practical. Army Wing Camps Taring.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical & Viva	15%
3.	External Examination Written	35%
4.	External Examination Practical & Viva	35%

Course Outcomes	
1.	After completing this course, the cadets will be able to: - Imbibe the conduct of NCC cadets.
2.	Respect the diversity of different Indian culture.
3.	Practice togetherness and empathy in all walks of their life.
4.	Do their own self-analysis and will work out to overcome their weakness for better performance in all aspects of life.
5.	Understand creative thinking & its components.
6.	Think divergently and will try to break functional fixedness.
7.	Make a team and will work together for achieving the common goals.
8.	Do the social services on different occasions.

Suggested References	
Sr. No.	References
1	NCC Hand Book
2	DG NCC App
3	NCC DG Pressy
4	NATIONAL CADET CORPS (S.GAUR)

On-line resources to be used if available as reference material

On-line Resources

<https://indiancc.nic.in/ncc-general-elective-subject-course-design/>

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Bachelor of Vocation (Software Development)
SEM-II

Course Code	BVS02VAC03	Title of the Course	NSS-I
Total Credits Of the Course	2	Hours per Week	2

Course Objectives	1. Develop among students a Sense of Social and Civil Responsibility
	2. Develop Competence required for group-living and Sharing of Responsibilities.
	3. Development of the personality of students through Community Service.
	4. Understand the Community in which they work.
	5. To know the basis concept, Philosophy, objectives and various advisory Committees of NSS.
	6. To understand the basic programmes and activities of NSS.

Course Content		
Unit	Description	Weightage (%)
1.	National Service Scheme :Introduction and Basic Concepts: (Theory) <ul style="list-style-type: none"> • Introduction of National Service Scheme • History & Philosophy of NSS • Mission, Objective, Symbol, NSS Badge, Flag, NSS Songs and NSS Day • Maintenance of daily Record 	50%
2.	Activity based Programmes : (Practical) <ul style="list-style-type: none"> • Various NSS Programmes, Activities and it's Aims. • Orientation of NSS volunteers. • Regular Activities, One Day Camp and Special Camp • Celebrations of important days recognized by united nations, Central Govt., State Govt. 	50%

Teaching-Learning Methodology	<ul style="list-style-type: none"> • Lecture Method • Online Lectures • Group Discussion • Practical Activities
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage (%)
1.	Internal Written /Practical (Written 25% + Practical 25%)	30%
2.	Internal Continuous Assessment in the form of Quizzes, Seminars, Assignments, Attendance, Practical	20%
3.	External Examination (Written 25% + Practical 25%)	50%

Course Outcomes: Having Completed this course, the students will be able to	
1.	Familiar with the basic concept, Philosophy, objectives and various advisory Committees of NSS
2.	Understand the community in which they work.
3.	Understand themselves in relation to their community.
4.	Make them a sense of Social and Civil Responsibility
5.	Develop Competence required for group-living and Sharing of Responsibilities.
6.	Have development of the personality of them through Community Service.
7.	Understand the basic programmes and activities of NSS

Suggested References	
Sr. No.	References
1.	NATIONAL SERVICE SCHEME MANUAL

On-line resources to be used if available as reference material
https://nss.gov.in

Syllabus as per NEP 2020 with Effect from December – 2023
Bachelor of Vocation (Software Development)
SEM-II

Course Code	BVS02VAC04	Title of the Course	Yoga, Meditation & Fitness -I
Total Credits Of the Course	2	Hours per Week	2

Course Objectives	1. To maintain physical fitness and wellness among the students
	2. To guide the students about the concept of health and happiness through Yog
	3. To guide the students about mental health
	4. To prepare the students to maintain the mental and physical health
	5. To guide the students to lead a happy life with Yog and meditation

Course Content		
Unit	Description	Weightage (%)
1.	<p>Yog :- Introduction and Basic concepts: Meaning, Definition, Importance and Types of Yog Origin and Development of Yog. Meaning, Concept, Steps and Importance of Ashthang Yog. How Yog is different from Physical exercise. Yog practice in daily life and its benefits. Benefits of Suryanamskar.</p>	50%
2.	<p>A. Yog & Meditation for Fitness: (Practical & Theory)</p> <ul style="list-style-type: none"> • Music & Meditation, Omkar Mantra & Meditation, Benefits of Meditation <p>B. Practical Aspect: (Practical & Theory)</p> <ul style="list-style-type: none"> • Prayer, Suryanamskar with Mantra, Subtle Exercise • Pranayams: Anulom-Vilom, Bhrumri Pranayam, 3SR Breathing Technique-practice and Benefits • Aasans with their names, Practical and Benefits: • Standing Position: Trikonasan, Tiryak Tadasan, Ardchandrasan, Tadasan, Vrikshasan. • Sitting Position: Padmasan, Sukhasan, Vakrasan, Yogmudrasan, Ushtrasan, Paschhimotasan • Asana lying on the stomach: Bhujangasan, Dhanurasan, Makrasan, Balasan 	50%

	<ul style="list-style-type: none"> Asana lying on the back: MarkatasanSetubandhasan, Shalbhasan, Pavanmuktasan, Ardhhalsan. Relaxation Position: Yog Nindra, Savasan 	
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Teaching-Learning Methodology	Teaching learning methodology: Student Centric teaching learning methodology with practical and theory sessions with demonstration, group discussion and practical sessions along with traditional methods of teaching.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written [Written 25%+ Practical 25%]	30%
2.	Internal Continuous Assessment in the form of Quizzes, Seminars, Assignments, Attendance, Practical	20%
3.	ExternalExamination[Written 25%+ Practical 25%]	50%

Course Outcomes:	
1.	Students will increase in concentration & will power through Yog & Meditation
2.	Students will learn how to lead a balanced life.
3.	Students will understand the basic body system, root of diseases and remedies from Yog
4.	Students will experience the positive change in their life with the practices of Yog.
5.	Students will receive the grand Yog story of India.

Suggested References	
Sr. No.	References
1	Yoga Sukshma Vyayma by Dharendra Brahmachari
2	Asana Pranayama Mudra Bandha by Swami Satyananda Saraswati. Publisher: Yoga Publication Trust, Munger, Bihar,I
3	Karma Yoga, Bhati Yoga, Raja Yoga, Jnana Yoga by Swami Vivekananda

4	Yoga Sutras of Patanjali by Swami Satyananda Saraswati. Publisher: Yoga Publication Trust, Munger, Bihar, India
5	Hatha Yoga by Swami Sivananda. Publisher: The Divine Life Society, Uttarakhand, India
6	Gheranda Samhita by Swami Nirjanananda Saraswati. Publisher: Yoga Publication Trust, Munger, Bihar, India
7	Essence of Yoga by Swami Shivananda Saraswati. Publisher: The Divine Life Society
8	Yoga and Kriya by Swami Shivaananda Saraswati. Publisher; Yoga Publication Trust, Munger, Bihar, India
On-line resources to be used if available as reference material	
On-line Resources	
http://lyu.ac.in/yoga/	
http://www.whenlifeisgood.com/iyengar-yoga-home-practice-sequences-a-resource-page	