	Declaring and initializing pointers, Accessing a variable through its pointer, Pointer expressions, Pointer increments and scale factor, Pointers and arrays, Pointers and character strings, Pointers and Functions, Pointers and structures Introduction, Defining files and its Operations, Error handling during I/O operations, Random access files, Command line arguments **Dynamic Memory Allocation,** Introduction of Dynamic Memory Allocation, Dynamic Memory Allocation functions	
IV	**Practical Component** • Programs on single dimensional array. • Programs on two-dimensional array. • Programs on String operations (with and without library functions). • Programs on Functions (including searching and sorting). • Programs on Recursive Functions. • Programs on Pointers. • Programs on Dynamic Memory Allocation. • Programs on Structure & Union. • Programs on File Handling. • Programs on Searching and Sorting.	15

Suggested Reference Books:

1. Programming in ANSI C by E Balagurusamy - TMH Publications
2. Programming in C by Pradip Dey and Manash Ghosh - Oxford University Press Publication
3. Let us 'C' by Yashwant Kanetkar –BPB Publications
4. Forouzan, B. A., & Gilberg, R. F. (2007). A Structured Programming Approach Using C (3rd ed.). Cengage Publication.
5. Kernighan, B. W., & Ritchie, D. M. (2015). The C Programming Language (2nd ed.).Prentice Hall of India.
6. Gottfried, B. (2017). Schaum's Outline of Programming with C (3rd ed.). McGrawHillBook.

AEC125 Language Through Literature-II

Semester: II	Course Title: Language Through Literature-II	Credit: 2
Course No.: AEC125		Hours: 2/week

Course Outcomes: On successful completion of the course the learner will be able to

CO	COGNITIVEABILITIES	COURSEOUTCOMES
CO 1	REMEMBERING	
CO 2	UNDERSTANDING	Students will demonstrate an increased interest in reading stories and poems in English, developing a habit of literary exploration.
CO 3	APPLYING	Students will exhibit proficiency in identifying and using

		different sentence types, articles, and question tags in written and spoken English
CO 4	ANALYSING	Students will apply learned grammatical concepts effectively in communication, showcasing improved language precision
CO 5	EVALUATING	Students will be adept at constructing grammatically correct sentences in English, and understanding and implementing English syntax principles.
CO 6	CREATING	Students will demonstrate the ability to choose and use appropriate words and expressions in various contexts, enhancing their communication skills in English

Unit	Content	Teaching Hours
I	Text: *Sparkles* (Macmillan Publication) Section – III	10
II	Text: *Sparkles* (Macmillan Publication)Section– IV	10
III	Grammar **A)** Articles **B)** Types of Sentences • Question Tags	10
IV	Practical **A)** Jumbled Sentences **B)** Cloze Test • The passage for the Cloze Test will contain a total of four blanks (one mark each) and for each blank three options will be given. Describing scientific processes/ experiments	10

References Books:

• Oxford Practice Grammar (Advanced) - George Yule – OUP.

• Advanced Grammar in Use - Martin Hewings - Cambridge UniversityPress.

• English Grammar for Students - Anne Seaton and Y H Mew - Learner's Publishing.

• A Practical English Grammar - A J Thomson and A V Martinet – OUP.

• Better English - Betty Kirkpatrick - Geddes and Grosset.

• Contemporary English Grammar Structures and Composition – David Green - Trinity Press.

DSSEC126 Data Science Tools & Technologies - II

Semester: II	Course Title: Data Science Tools & Technologies - II	Credit: 2
Course No.: DSSEC126		Hours: 3/week

Course Outcomes: On successful completion of the course the learner will be able to

CO	COGNITIVEABILITIES	COURSEOUTCOMES
CO1	REMEMBERING	Remember Excel functions, data validation tools.
CO2	UNDERSTANDING	Understand Advanced Excel formula and other data validation tools.
CO3	APPLYING	Apply pivoting technique to summarize the real-life data.