SYSTEM ANALYSIS AND

DESIGN

UNIT – 1

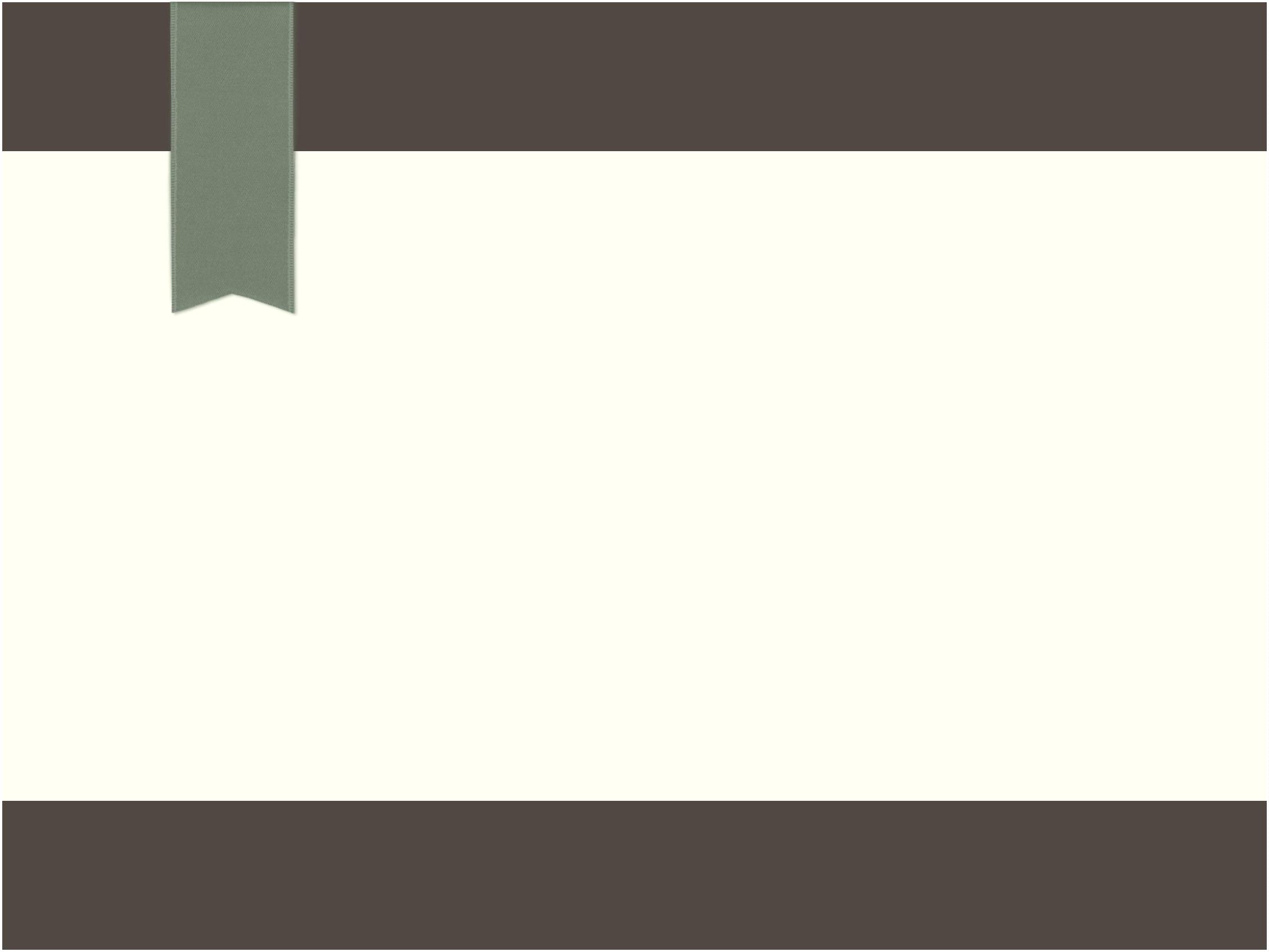
System Study and System Development Life Cycle

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Who is System Analyst?

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A systems analyst performs study. He finds activities (process /

working methods) and goals and decides procedures to achieve

goals.

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Like an architect he designs and implements the system. He is

takes interest in the profit of the business of client from computer

technology.

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Attributes of System Analyst

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He has unique skills of communication, computer technology,

mathematics, statistics, commerce, law etc. He must be flexible and

intelligent.

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He must have knowledge of people. He coordinates the efforts of

different type of persons in an organization to achieve business goals.

A system analyst defines the problem then after he tries to solve it, he

talks with user, manager to determine problem and finds the solution

from them and decides best solution.

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he does not takes decision himself but gathers ideas from all people

and chooses the best solution or workable solution.

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Attributes of System Analyst

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System analyst plans to achieve goals. After approval of solution he starts

designing and coordinates in testing and helps to decide that new system is

working as per requirement or not.

System analyst works with people so he should know each of them, their working

and he should motivate them. System Analyst may develop software in any area so

he must possess the knowledge of that business. How it functions? Give details.

He must take interest in product and profit.

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System analyst must be aware with limitation and benefits of computers. He

must communicate with different level peoples so he must have communication

skills. Flexibility of decisions makes more communicative. Conflicting needs

and results can be resolved by him. He must be well educated and sharp

minded.

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Role of System Analyst

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He defines problem of business. Requirement of a company or any business may

be smooth functioning of business activities with profit maximization and cost

minimization.

He uses different techniques to gather information about business which can

further used to find strength or weakness of business. He also communicates with

different persons in organization for these.

The systems analyst analyses details and prepare a plan to solve business

problem. He finds best way of solving a problem by discussing with other people

and refining their ideas and implement practically feasible solution.

Systems analysts coordinate the process of developing solutions. Since many

problems have number of solutions, the systems analyst must evaluate the merit of

such proposes solution before recommending one to the management.

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Role of System Analyst

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Systems analysts are often referred to as planners. A key part of the systems

analyst's job is to develop a plan to meet the management's objectives.

Systems analyst is responsible for designing so that profit of organization can be

achieved. Design is a time consuming, complex and precise task.

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As per standard set prior, system analyst coordinates in testing of system.

When System Analyst is working on system having bigger size then he can allot his

work to his supporters and with co-ordination of them he can be able to design the

system. So he allots designing work to System Designer and the work of quality

control of coding is allotted to programmer analyst.

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Program Analyst

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Program Analyst performs time and cost ratio in terms of

memory resource and processing time. He decides which

solution (coding / algorithm) is better. To introduce a single

variable may cause degradation of performance. So he always

trace all memory resource and processing of each process.

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System Designer

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System Designer is responsible to design new system or current

manual system. He performs the tasks how the system will

generate the information. He consults with the information

analyst for the output. System Designer generally designs the

system and takes all responsibility about it. Design includes flow

chart, algorithm etc.

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Information Analyst

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Information Analyst works upon data. He finds the source of

data and he decides correct data flow for processing. He also

optimizes storage and decides information receiver (external

entities). He cares of Input validation. Information analyst

calculates cost of each information produced by the system and

make analysis for cost of inputs. Information analyst finalizes

what output should be produced.

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