



# **SNS COLLEGE OF ENGINEERING**



**Kurumbapalayam(Po), Coimbatore – 641 107**

**Accredited by NAAC-UGC with 'A' Grade**

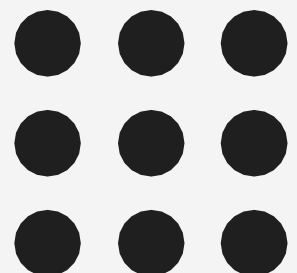
**Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai**

## **Department of Information Technology**

**Course Name – Software Engineering**

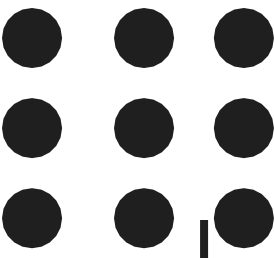
**II Year / III Semester**

**Topic 2 – Clean Room Engineering**





# Clean Room Software Engineering



- Clean room software engineering is a software development approach to producing quality software.
- An efficient and good quality software product is delivered to the client as QA (Quality Assurance) is performed each and every phase of software development.
- A set of principles and practices for gathering requirements, designing, coding, testing, managing, etc. which not only improves the quality of the product but also increases productivity and reduces development cost.



## Processes of Cleanroom development

- **Management** –

It is persistent throughout the whole project lifetime which consists of project mission, schedule, resources, risk analysis, training, configuration management, etc.

- **Specification** –

It is considered the first process of each increment which consists of requirement analysis, function specification, usage specification, increment planning, etc.

- **Development** –

It is considered the second process of each increment which consists of correctness verification, incremental design, etc.

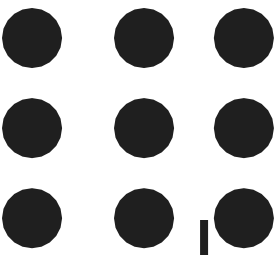
- **Certification** –

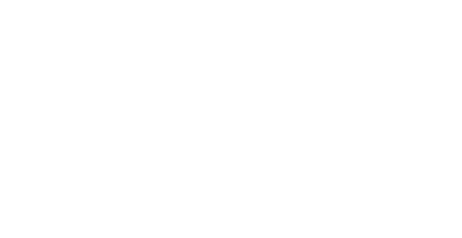
It is considered the final process of each increment which consists of usage modeling and test planning, statistical training and certification process, etc.



## **Benefits of Clean Room Software engineering :**

- Delivers high-quality products.
- Increases productivity.
- Reduces development cost.
- Errors are found early.
- Reduces the overall project time.
- Saves resources.





**THANK YOU**

