

# Hindbookcenter



## Hind Book Center & Photostat

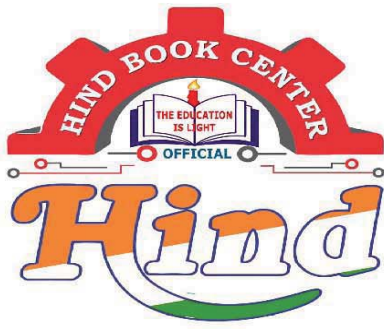
### MADE EASY

Computer Science Engineering / IT  
Toppers Handwritten Notes  
Software Engineering

- Colour Print Out
- Blackinwhite Print Out
- Spiral Binding,& Hard Binding
- Test Paper For IES GATE PSUs IAS, CAT
- All Notes Available & All Book Availabie
- Best Quaity Handwritten Classroom Notes & Study Materials
- IES GATE PSUs IAS CAT Other Competitive/Entrence Exams

Visit us:-[www.hindbookcenter.com](http://www.hindbookcenter.com)

Courier Facility All Over India  
(DTDC & INDIA POST)  
Mob-9711475393



# Hindbookcenter



ALL NOTES BOOKS AVAILABLE ALL STUDY MATERIAL AVAILABLE  
COURIERS SERVICE AVAILABLE

MADE EASY, IES MASTER, ACE ACADEMY, KREATRYX

ESE, GATE, PSUs BEST QUALITY TOPPER HAND WRITTEN NOTES  
MINIMUM PRICE AVAILABLE @ OUR WEBSITE

- |                                |                           |
|--------------------------------|---------------------------|
| 1. ELECTRONICS ENGINEERING     | 2. ELECTRICAL ENGINEERING |
| 3. MECHANICAL ENGINEERING      | 4. CIVIL ENGINEERING      |
| 5. INSTRUMENTATION ENGINEERING | 6. COMPUTER SCIENCE       |

IES, GATE, PSU TEST SERIES AVAILABLE @ OUR WEBSITE

❖ IES –PRELIMS & MAINS

❖ GATE

➤ NOTE;- ALL ENGINEERING BRANCHS

➤ ALL PSUs PREVIOUS YEAR QUESTION PAPER @ OUR WEBSITE

PUBLICATIONS BOOKS -

MADE EASY, IES MASTER, ACE ACADEMY, KREATRYX, GATE ACADEMY, ARIHANT, GK  
RAKESH YADAV, KD CAMPUS, FOUNDATION, MC –GRAW HILL (TMH), PEARSON...OTHERS

HEAVY DISCOUNTS BOOKS AVAILABLE @ OUR WEBSITE

Shop No.7/8 Saidulajab Market Neb Sarai More, Saket, New Delhi-30	Shop No: 46 100 Futa M.G. Rd Near Made Easy Ghitorni, New Delhi-30	F518 Near Kali Maa Mandir Lado Sarai New Delhi-110030	Shop No.7/8 Saidulajab Market Neb Sarai More, Saket, New Delhi-30
--	---	--	--

Website: [www.hindbookcenter.com](http://www.hindbookcenter.com)

Contact Us: 9711475393

Software is a program, when it is executed

the associated functionality must be satisfied.

S/w is a data structure used to manipulate the information

S/w consist the operational procedure, used to indicate

the operational guideline of the s/w. ...

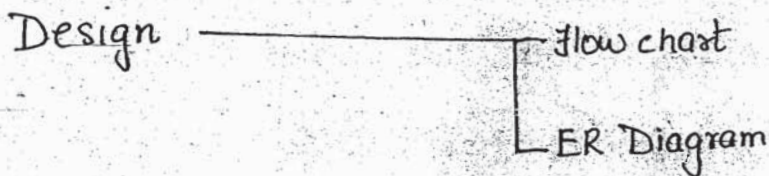
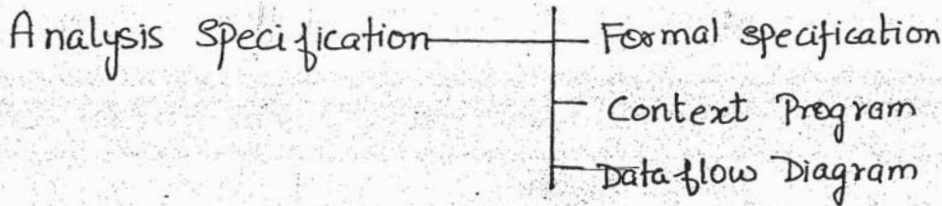
ie... user manual, beginners guide, system overview... etc

Software consists the documentation manual, used to indicate the list of the activities maintained to develop the s/w. ...



Software consists the documentation manual, used to indicate the list of the activities maintained to develop the s/w

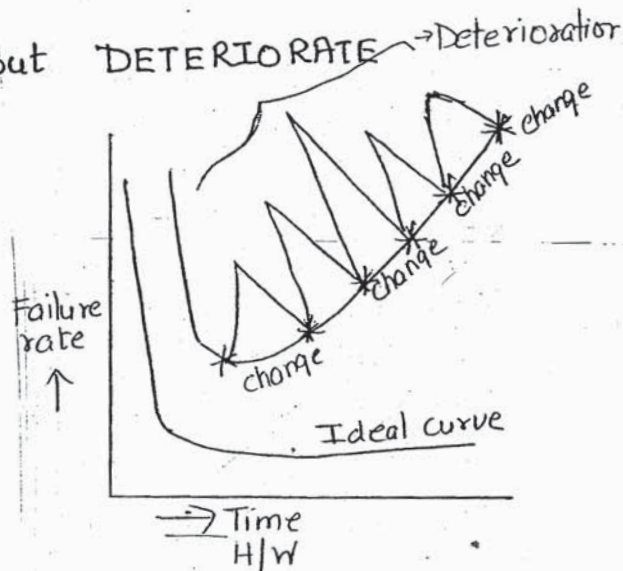
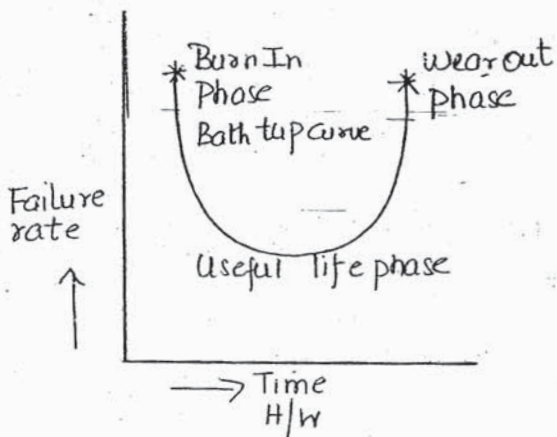
ie. ...





Process else that process is called as manufacture.

2. s/w doesn't WEAROUT but DETERIORATE → Deterioration



The life cycle of H/W component consists of the 3 stages:-

## Burn in Phase

In the early stage of development due to the more numbers of errors the product failure rate is high.

In the Burn-In-Phase the product is present in the developer's site.

After various test operations the failure rate is decrease & it will be established at one point.

Later deployee the product into customer's place.

## Useful life Phase

In this Phase the product is there in operational state.

## Wear Out Phase

After the continuous users of the product over a period of a time the life time of the product is decreases due to the environmental changes.

ie... Temp, Vibrations, Dust Etc...

Therefore the failure rate of the product increases.

NOTE :-

When the H/W component is undergoes wear out condition, then replace the component with new component.

S/W is undergoes deterioration

ie... At the early stage of operation the product failure rate is high.

After the testing operation the product will be deployed in to the customer's site.

S/W doesn't get affected by the environmental changes but the customer requirements are not static. When the customer requirements are changed frequently then the maintenance cost of the S/W becomes twice or thrice than the development cost. This condition is called deterioration.

Note :-

When the S/W is deteriorated then Re-engineer the S/W

3. Industry is moving towards component based development. Still the S/W is customer build.

Component is a reusable code or error free code or risk free code or fully tested code.

During the physical component manufacturing process we can directly use the component without changes.

ie .... Working models contains different I.C to implement the model directly purchase the I.C from market.

In the S/W development process, application to application the functionality will be differ therefore the S/W components are undergoes customization according to project functionality.

In the S/W development 4 types of components are used :-

### 1. Off the shelf

These components are extracted from 3<sup>rd</sup> party library

### 2. Fully - Experienced

### 3. Partial Experienced

~~These components are extracted from the own org library.~~

### 4. New Component

New Component functionality is developed from the base line.

### S/W Applications:-

There is different applications domain used as the S/W to satisfy the various high level objectives.

- 1) System Software: is a program used to manage the other program or provide the services to other program  
ie: OS, Compilers, editors, drivers... ETC
- 2) Realtime S/W: This s/w is used to monitor, control and analyze the various real time events when they are occur. Eg: Whether forecasting uses the real time s/w to control the temp, humidity & other environmental parameters to forecast the weather.
- 3) Embedded S/W: The s/w is placed into the permanent memory (RAM) of the product & it is used to control the various function of product.