

## GANESH INSTITUTE OF ENGINEERING AND TECHNOLOGY, POLYTECHNIC

## DEPARTMENT OF COMPUTER SCIENCE &amp; ENGINEERING

NAME: ANULIPSA SAHOO

LESSON PLAN CUM PROGRESS REPORT

SUBJECT: OPERATING SYSTEM

SEMESTER: 4TH

BRANCH: COMPUTER SCIENCE &amp; ENGINEERING

LECTURE NO.	CO	BTL	TOPIC TO BE COVERED	WEB REFERENCE IF ANY	PLAN DATE	ACTION DATE	REVIEW BY HOD
1	CO1	1	Overview of Operating System Basic concepts	<a href="https://youtu.be/WJ-UaAaumNA?si=8Zoy1l8_ga-ukdq4">https://youtu.be/WJ-UaAaumNA?si=8Zoy1l8_ga-ukdq4</a>	04-02-2025		
2	CO1	1	UNIX/LINUX Architecture,	<a href="https://youtu.be/cGWOPJooJlo?si=Oa9lifMfWZIKDjKV">https://youtu.be/cGWOPJooJlo?si=Oa9lifMfWZIKDjKV</a>	05-02-2025		
3	CO1	1	Kernel, services and systems calls,	<a href="https://youtu.be/tWrZiGM8?si=X_BOaHveFEZ9da1R">https://youtu.be/tWrZiGM8?si=X_BOaHveFEZ9da1R</a>	06-02-2025		
4	CO1	2	System programs	<a href="https://youtu.be/UWDzhz8MVqc?si=6WpfZM-OanYLKUta">https://youtu.be/UWDzhz8MVqc?si=6WpfZM-OanYLKUta</a>	07-02-2025		
5	CO2	2	Process Management Process concepts	<a href="https://youtu.be/Koqx_wiYz84?si=weI9-PqkiTnhoSu7">https://youtu.be/Koqx_wiYz84?si=weI9-PqkiTnhoSu7</a>	08-02-2025		
6	CO2	3	Operations on processes	<a href="https://youtu.be/SfPxbE8guAQ?si=f8wml6TBSWUo1aAS">https://youtu.be/SfPxbE8guAQ?si=f8wml6TBSWUo1aAS</a>	10-02-2025		
7	CO2	3	IPC	<a href="https://youtu.be/-GUSNnRt2U8?si=f8cSqtHbym8Tjxgq">https://youtu.be/-GUSNnRt2U8?si=f8cSqtHbym8Tjxgq</a>	11-02-2025		
8	CO2	3	Process Scheduling	<a href="https://youtu.be/zFnrUVqtiOY?si=vcpEOj_mhr5biVgo">https://youtu.be/zFnrUVqtiOY?si=vcpEOj_mhr5biVgo</a>	12-02-2025		
9	CO2	2	Multi-threaded programming	<a href="https://youtu.be/3MqyDWDpZol?si=Zo0G59hr-UbVv3-p">https://youtu.be/3MqyDWDpZol?si=Zo0G59hr-UbVv3-p</a>	13-02-2025		
10	CO3	2	Memory management	<a href="https://youtu.be/eESIFJz7mJw?si=s6iHveUAQNpLAPK1">https://youtu.be/eESIFJz7mJw?si=s6iHveUAQNpLAPK1</a>	14-02-2025		

11	C03	1	Memory allocation,	<a href="https://youtu.be/N3rG_1CEQkQ?si=-Cxw4CMYeN6cMLe6">https://youtu.be/N3rG_1CEQkQ?si=-Cxw4CMYeN6cMLe6</a>	17-02-2025		
12	C03	1	Swapping	<a href="https://youtu.be/Qt49Hzh_TDc?si=uOXA-tlrMEqLPczW">https://youtu.be/Qt49Hzh_TDc?si=uOXA-tlrMEqLPczW</a>	18-02-2025		
13	C03	1	Paging	<a href="https://youtu.be/6c-mOFZwP_8?si=-jmgytzbnkIFQcNAW">https://youtu.be/6c-mOFZwP_8?si=-jmgytzbnkIFQcNAW</a>	19-02-2025		
14	C02	2	Segmentation	<a href="https://youtu.be/Nng4G6JKGQo?si=WZ99tp_RSXfiaafq">https://youtu.be/Nng4G6JKGQo?si=WZ99tp_RSXfiaafq</a>	20-02-2025		
15	C03	1	Virtual Memory	<a href="https://youtu.be/o2_iCzS9-ZQ?si=yNTkLHbc4bRBvEO4">https://youtu.be/o2_iCzS9-ZQ?si=yNTkLHbc4bRBvEO4</a>	22-02-2025		
16	C03	2	Various faults.	<a href="https://youtu.be/o2_iCzS9-ZQ?si=yF9EAfBnY7bk59-b">https://youtu.be/o2_iCzS9-ZQ?si=yF9EAfBnY7bk59-b</a>	23-02-2025		
17	C04	1	File management	<a href="https://youtu.be/-81fy_sWqWg?si=0fwfMRzFY9Mg7DMc">https://youtu.be/-81fy_sWqWg?si=0fwfMRzFY9Mg7DMc</a>	24-02-2025		
18	C04	2	Concept of a file	<a href="https://youtu.be/gSks2GpUx3Q?si=tAYikCnds85avKol">https://youtu.be/gSks2GpUx3Q?si=tAYikCnds85avKol</a>	27-02-2025		
19	C04	1	Access methods,	<a href="https://youtu.be/0vno0Ra0wEg?si=f0ilFiT1223wQv7M_">https://youtu.be/0vno0Ra0wEg?si=f0ilFiT1223wQv7M_</a>	28-02-2025		
20	C04	3	Directory structure	<a href="https://youtu.be/eK_mE HG20PA?si=SH25XW s A1sQhrZ80">https://youtu.be/eK_mE HG20PA?si=SH25XW s A1sQhrZ80</a>	01-03-2025		
21	C04	1	File system mounting	<a href="https://youtu.be/QT1mBAJBuoA?si=fyVKBn_RvzbubkSA">https://youtu.be/QT1mBAJBuoA?si=fyVKBn_RvzbubkSA</a>	03-03-2025		
22	C04	2	Filesharing and protection	<a href="https://youtu.be/QNECaeW_pF4?si=AsA5yi7h8Y7sGYkp">https://youtu.be/QNECaeW_pF4?si=AsA5yi7h8Y7sGYkp</a>	04-03-2025		
23	C04	1	File system structure and implementation	<a href="https://youtu.be/0LtuQhNFFe0?si=LebWVAeMaincyhkr_">https://youtu.be/0LtuQhNFFe0?si=LebWVAeMaincyhkr_</a>	06-03-2025		
24	C04	2	Directory implementation	<a href="https://youtu.be/-KKj3WF1MFM?si=D6VB7ctJF9mvLntG">https://youtu.be/-KKj3WF1MFM?si=D6VB7ctJF9mvLntG</a>	07-03-2025		
25	C04	1	Free space management,	<a href="https://youtu.be/hDBFSQRHPAU?si=AwPq7Es0geK5PpV0">https://youtu.be/hDBFSQRHPAU?si=AwPq7Es0geK5PpV0</a>	08-03-2025		

26	C04	2	Efficiency and performance	<a href="https://youtu.be/djIF1f6frMA?si=LUzvA0eHnwtaH5dP">https://youtu.be/djIF1f6frMA?si=LUzvA0eHnwtaH5dP</a>	10-03-2025		
27	C04	1	Different types of file system	<a href="https://youtu.be/OtiZGWWSG08E?si=J2nLEhKYqXH9SmCj">https://youtu.be/OtiZGWWSG08E?si=J2nLEhKYqXH9SmCj</a>	11-03-2025		
28	C05	2	I/O System	<a href="https://youtu.be/PM728r4oGcE?si=cBKoEHDku28L8M1">https://youtu.be/PM728r4oGcE?si=cBKoEHDku28L8M1</a>	12-03-2025		
29	C05	2	Mass storage structure- overview	<a href="https://youtu.be/Z0LPIEcGMXo?si=kFc2vMm5Y0O_CK17">https://youtu.be/Z0LPIEcGMXo?si=kFc2vMm5Y0O_CK17</a>	13-03-2025		
30	C05	1	Disk structure	<a href="https://youtu.be/zVW00h4dz7o?si=Ka8yrZ0Hg-yl_w-K">https://youtu.be/zVW00h4dz7o?si=Ka8yrZ0Hg-yl_w-K</a>	17-03-2025		
31	C05	3	Disk attachment	<a href="https://youtu.be/gBICQI3kjo?si=KBsOXRPPgedXapnn">https://youtu.be/gBICQI3kjo?si=KBsOXRPPgedXapnn</a>	18-03-2025		
32	C05	2	Disk scheduling algorithms	<a href="https://youtu.be/9uoa_p8q47Y?si=BAfuntM7gunAzzj">https://youtu.be/9uoa_p8q47Y?si=BAfuntM7gunAzzj</a>	19-03-2025		
33	C05	3	Swap space management	<a href="https://youtu.be/enr7mc58QIU?si=SRFVr_vpeffH58qc">https://youtu.be/enr7mc58QIU?si=SRFVr_vpeffH58qc</a>	20-03-2025		
34	C0	3	RAID types–RAID0.RAID –1, RAID 5	<a href="https://youtu.be/-6sA9nHIZDc?si=53A_ciNKB YHcp1HV">https://youtu.be/-6sA9nHIZDc?si=53A_ciNKB YHcp1HV</a>	22-03-2025		
35	C06	3	Dead Locks Concept of deadlock	<a href="https://youtu.be/rWFH6PLOIEI?si=ITQhrV00Sf16eiw">https://youtu.be/rWFH6PLOIEI?si=ITQhrV00Sf16eiw</a>	24-03-2025		
36	C06	3	Resources Deadlock Prevention: Banker Algorithm & Safety Algorithm	<a href="https://youtu.be/7gMLNiEz3nw?si=Omjop90QlmpfJtw">https://youtu.be/7gMLNiEz3nw?si=Omjop90QlmpfJtw</a>	25-03-2025		
37	C06	1	The Ostrich Algorithm	<a href="https://youtu.be/HP1JuTbJM N4?si=jphoiEqk7WZWBxH">https://youtu.be/HP1JuTbJM N4?si=jphoiEqk7WZWBxH</a>	26-03-2025		
38	C06	2	Deadlock Detection and Recovery	<a href="https://youtu.be/2-7JGoy52Qo?si=kPN1KGgMC ZbPrV2R">https://youtu.be/2-7JGoy52Qo?si=kPN1KGgMC ZbPrV2R</a>	27-03-2025		

39	C06	3	Deadlock Prevention	<a href="https://youtu.be/pPM9Ajqmy_4?si=aA-j51ynbA8icys2">https://youtu.be/pPM9Ajqmy_4?si=aA-j51ynbA8icys2</a>	29-03-2025		
40	C07	3	OS Security	<a href="https://youtu.be/DKb7KhfoZmU?si=RVLrZAaim-7JbVD3">https://youtu.be/DKb7KhfoZmU?si=RVLrZAaim-7JbVD3</a>	30-03-2025		
41	C07	1	Authentication	<a href="https://youtu.be/B76BhEq1FN8?si=fo8Tq35bzQQja4cd">https://youtu.be/B76BhEq1FN8?si=fo8Tq35bzQQja4cd</a>	02-04-2025		
42	C07	1	Authentication	<a href="https://youtu.be/B76BhEq1FN8?si=fo8Tq35bzQQja4cd">https://youtu.be/B76BhEq1FN8?si=fo8Tq35bzQQja4cd</a>	03-04-2025		
43	C07	1	Access Control	<a href="https://youtu.be/PjZH-CO1hX0?si=4t0qeOgbnyo-Hmj4">https://youtu.be/PjZH-CO1hX0?si=4t0qeOgbnyo-Hmj4</a>	04-04-2025		
44	C07	2	Access Rights	<a href="https://youtu.be/rkPTqglXBN0?si=CPfqQQcal9C1d4qA">https://youtu.be/rkPTqglXBN0?si=CPfqQQcal9C1d4qA</a>	05-04-2025		
45	C07	1	System Logs	<a href="https://youtu.be/ZQbnCDYVGVU?si=J6qwA0hOHIVWdIYk">https://youtu.be/ZQbnCDYVGVU?si=J6qwA0hOHIVWdIYk</a>	07-04-2025		

PRINCIPAL

FACULTY

HOD, COMPUTER SCIENCE ENGG.