

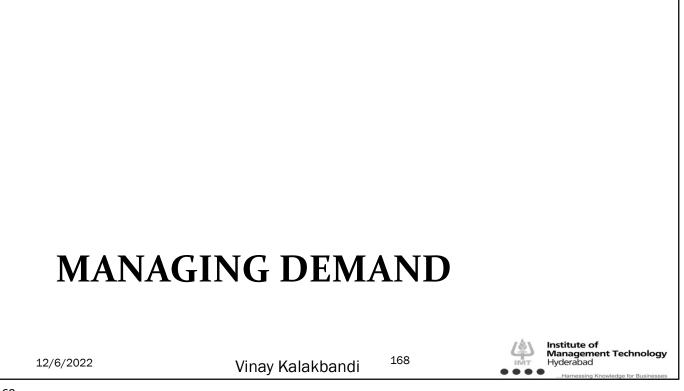
Managing supply

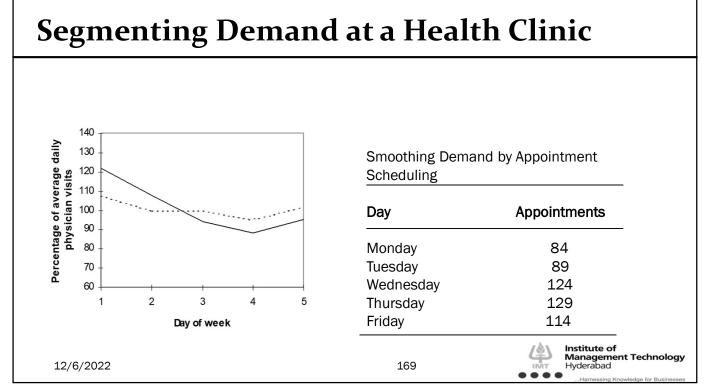
- Increasing customer participation
- Creating adjustable capacity
- Sharing capacity
- Cross training employees
 - Using part time employees

12/6/2022

Vinay Kalakbandi ¹⁶⁷





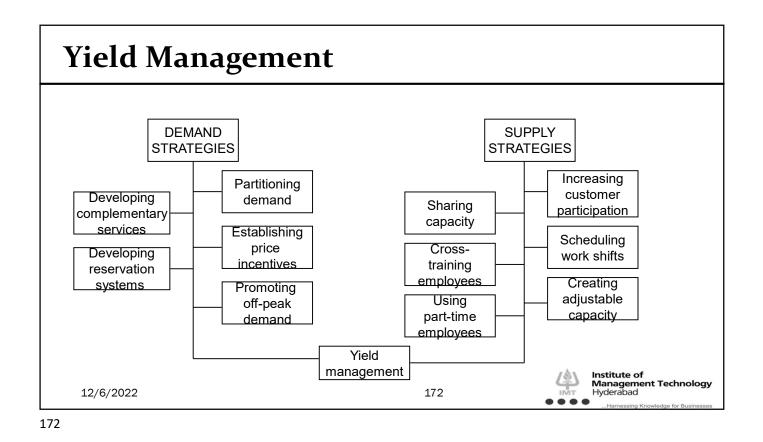


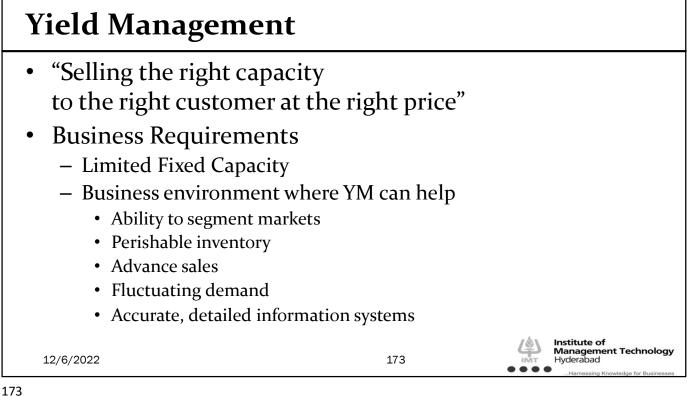
type			No. of	Daily	
	Days and week	s of camping season	days	fee	
1	Saturdays and Sun Dominion Day and	days of weeks 10 to 15, I civic holidays	plus 14	\$6.00	_
2	Saturdays and Sun plus Victoria Day	days of weeks 3 to 9 and	d 15 to 19, 23	2.50	
3		to 15, plus all other days ot in experience type 1 o		0.50	
4	Rest of camping sea	ason	78	free	
Experience	Existing flat Campsites	lee 01 ψ2.00	Discrimina Campsites	itory ree	
type	occupied	Revenue	occupied (est.)	Revenue	
1	5.891	\$14,727	5,000	\$30,000	
2	8,978	22,445	8,500	21,250	
3	6,129	15,322	15,500	7.750	
3					
4 Total	<u>4,979</u> 25.977	<u> 12,447</u> \$ 64,941	29.000	\$59,000	

Managing demand

- Promoting off peak demand
- Developing complementary services
- Reservation systems and overbooking

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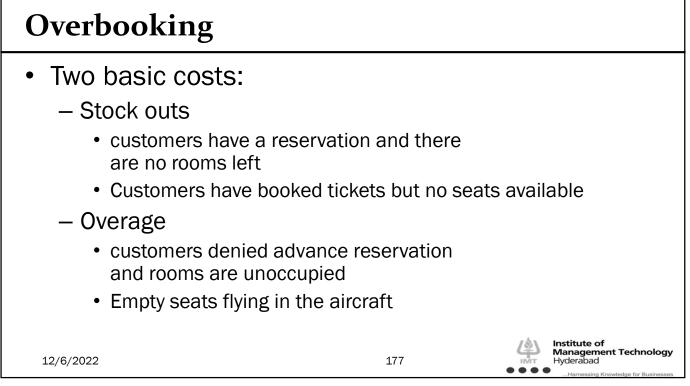
Industries that Fully Use	YM Tech	niques
 Transportation-oriented indust Airlines Railroads Car rental agencies Shipping Vacation-oriented industries Tour operators Cruise ships Resorts 	ries	
Hotels, medical, broadcasting		
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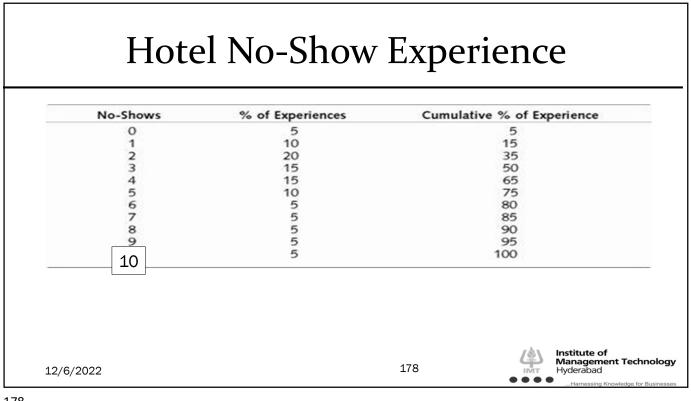
Elements of a Yield Management System

- Overbooking •
- Price Discrimination & Capacity Allocation ٠
- Network Management •

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Overbooking		
 Need for overbooking 	5	
 Fairness concerns 		
 Pros and cons v/s was 	aitlisting	
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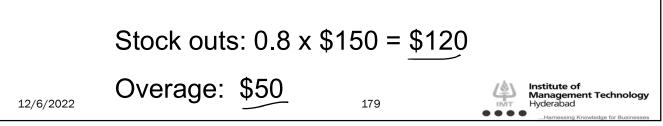


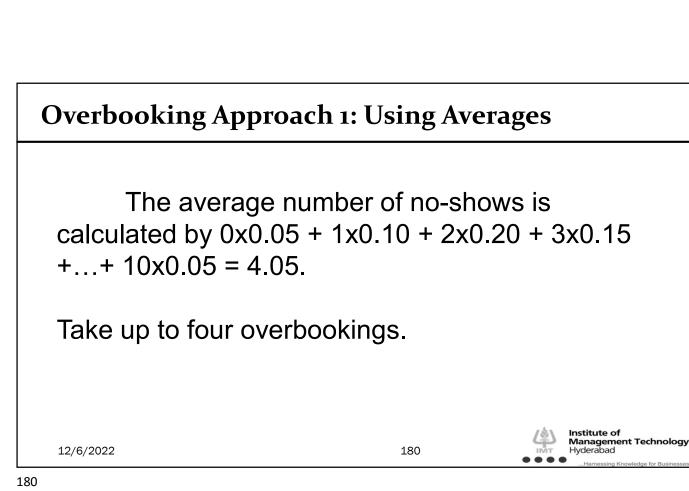




What other data do you need?

- Room rent is \$50
- 20% customers mutter menacingly and walk out
- Others are so upset they break furniture worth \$150

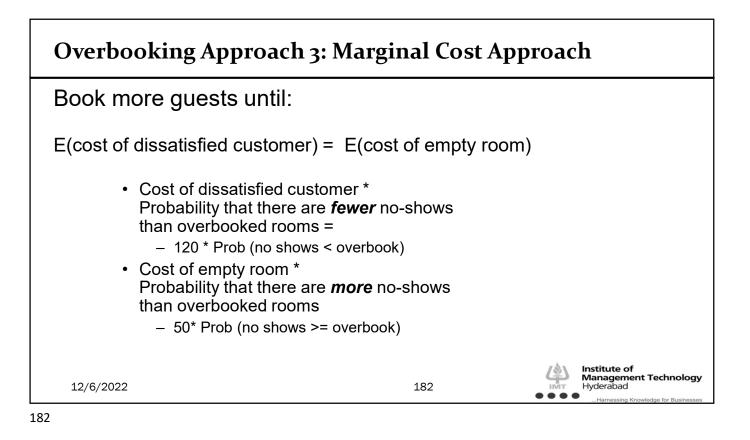


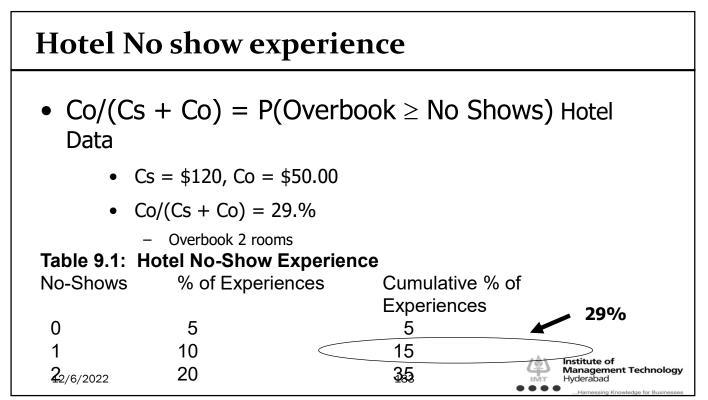


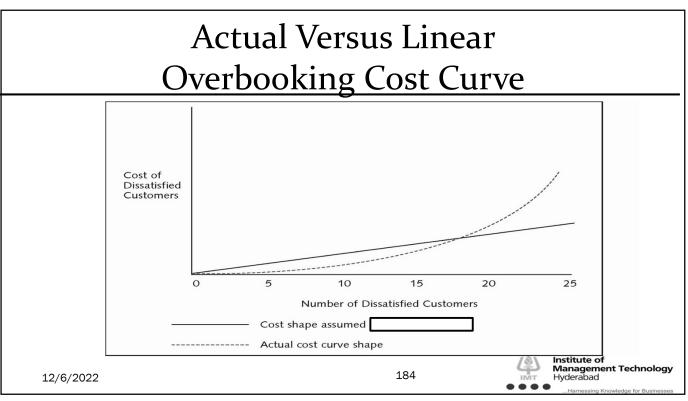
Overbooking Approach 2: Spreadsheet Analysis

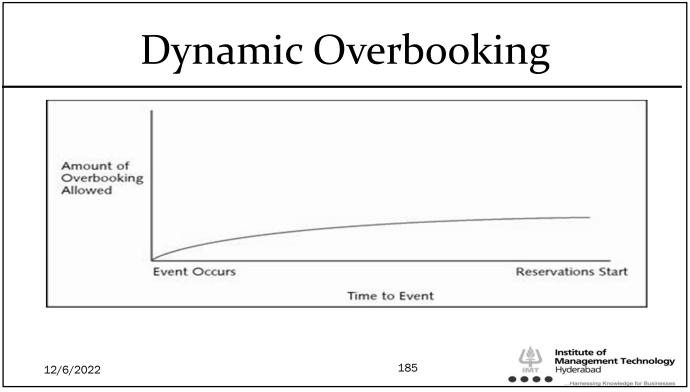
No-Shows	Probability	0	1	2	3	4	5	6	7	8		9		10
0	0.05	\$ O	\$120	\$240	\$360	\$480	\$600	\$720	\$840	\$960	\$1	,080,1	\$1	,200
1	0.10	\$ 50	\$ O	\$120	\$240	\$360	\$480	\$600	\$720	\$840	\$	960	\$1	,080,1
2	0.20	\$100	\$ 50	\$ O	\$120	\$240	\$360	\$480	\$600	\$720	\$	840	\$	960
3	0.15	\$150	\$100	\$ 50	\$ O	\$120	\$240	\$360	\$480	\$600	\$	720	\$	840
4	0.15	\$200	\$150	\$100	\$ 50	\$ O	\$120	\$240	\$360	\$480	\$	600	\$	720
5	0.10	\$250	\$200	\$150	\$100	\$ 50	\$ O	\$120	\$240	\$360	\$	480	\$	600
6	0.05	\$300	\$250	\$200	\$150	\$100	\$ 50	\$ O	\$120	\$240	\$	360	\$	480
7	0.05	\$350	\$300	\$250	\$200	\$150	\$100	\$ 50	\$ O	\$120	\$	240	\$	360
8	0.05	\$400	\$350	\$300	\$250	\$200	\$150	\$100	\$ 50	\$ O	\$	120	\$	240
9	0.05	\$450	\$400	\$350	\$300	\$250	\$200	\$150	\$100	\$ 50	\$	0	\$	120
10	0.05	\$500	\$450	\$400	\$350	\$300	\$250	\$200	\$150	\$100	\$	50	\$	0
Total Cost		\$203	\$161	\$137	\$146	\$181	\$242	\$319	\$405	\$500	\$	603	\$	714
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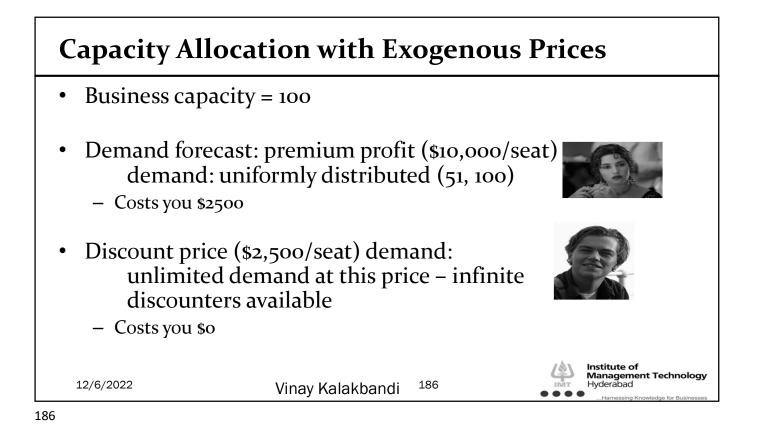






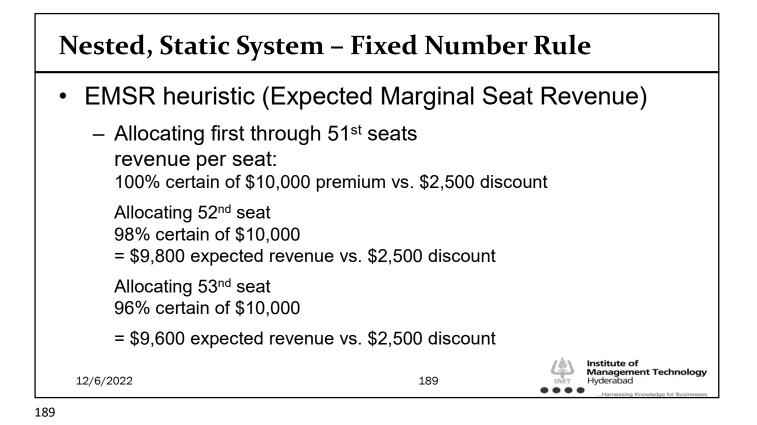


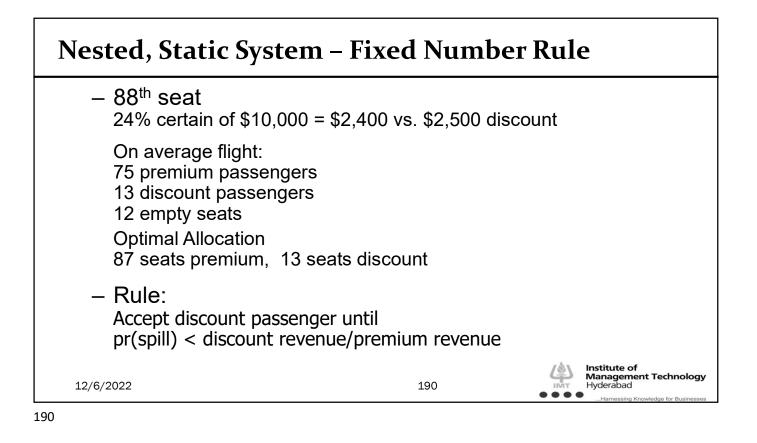


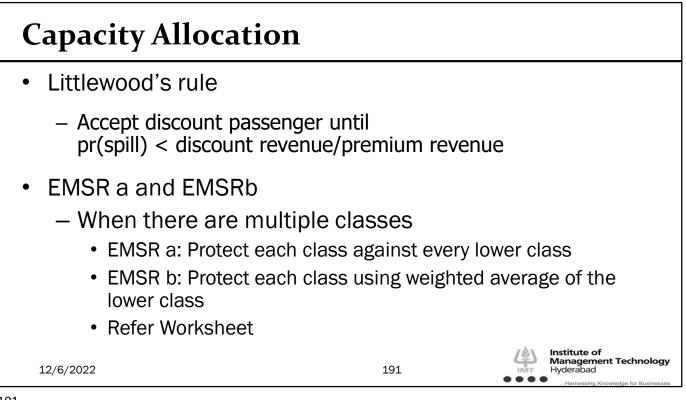


Static Methods	
 Fixed Number, Fixed Time Rules 	
Fixed Time Rule	
 Accept discount bookings until a specific date 	
- Motivation	
 Distinct, Static System – Fixed Number Rule 	
 Average of 75 premium bookings, so reserve 	
» exactly 75 slots for premium customers	
» exactly 25 slots for discount customers	
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Static Methods		
 Fixed Number, Fixed Time Nested, Static system – Fi Average of 75 premium bo 75 slots for premium cust remaining 25 go FCFS 	xed Number ookings, so r	
 Example: 85 premium and 15 pass 	engers wish	to book
 Distinct, Static system: Nested, Static system: 	•	ım,15 discount ım,15 discount
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ur Types o	of Fares	5		
Fare Type:	BUSINESS	COACH	DISCOUNT	PROMOTION
Prices:	250-140%	140%-70%	60%-30%	40%-25%
Letter codes:	F, C, J	Y	H, Q, M	K, V
Commissions:	10%-30%	10%-15%	10%-15%	0%-10%
Seat size:	BIG	small	small	small
Service:	high	normal	normal	normal
Early Purchase?	0 days	0 days	14-30 days	30-60 days
Refundable?	yes	yes	partial	no
Min. Stay?	no	no	7-14 days	7-14 days
Days "full":	under 5%	under 5%	5%-50%	20%-80%
Typical user:	business	business	holiday	group
Elasticity:	-0.5	-0.7	-1.4	-2.0
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