Microsoft Project - 4a

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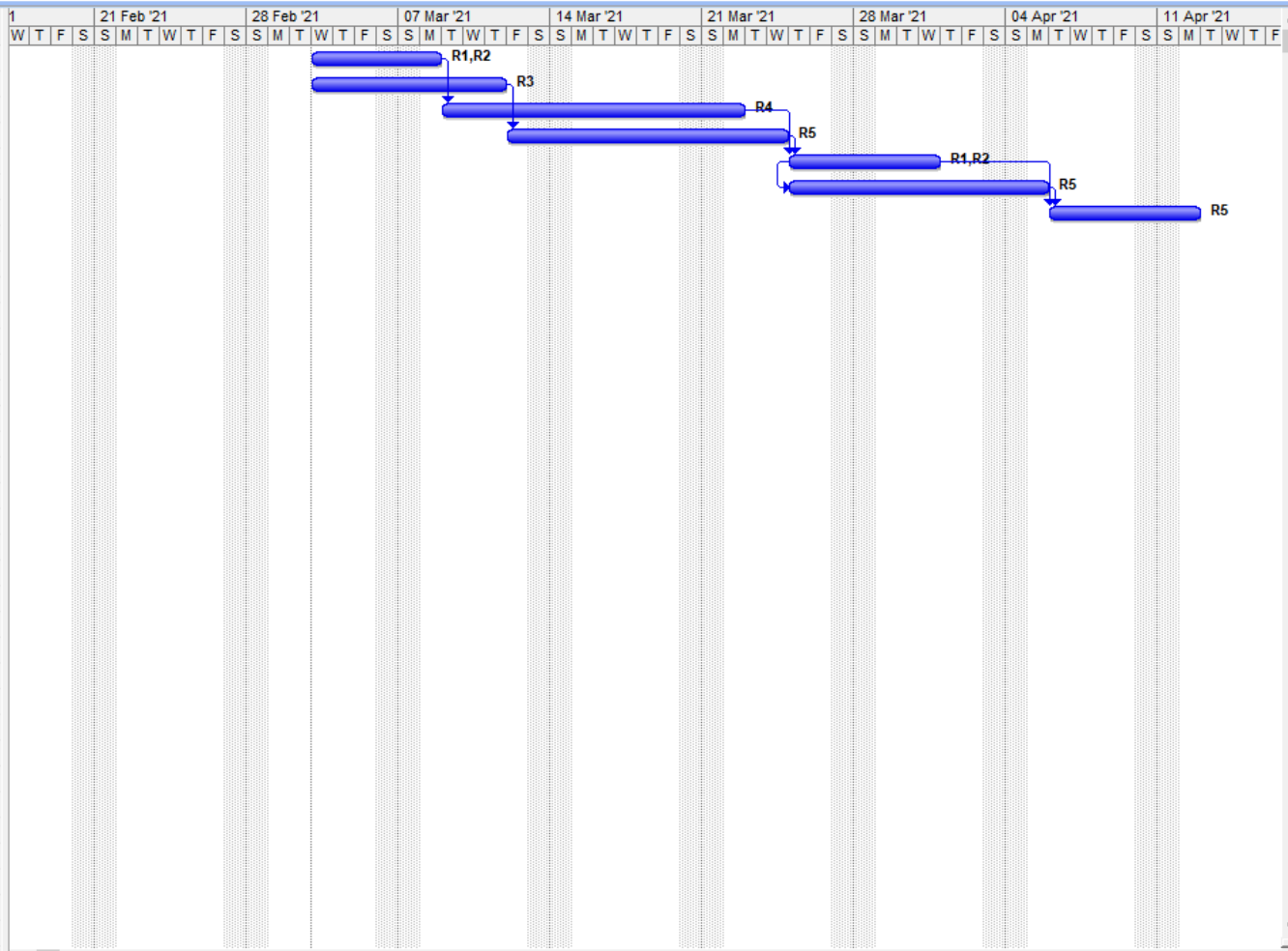
Gantt Chart

	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1	T1	4 days	Wed 03-03-21	Mon 08-03-21		R1,R2
2	T2	7 days	Wed 03-03-21	Thu 11-03-21		R3
3	T3	10 days	Tue 09-03-21	Mon 22-03-21	1	R4
4	T4	9 days	Fri 12-03-21	Wed 24-03-21	2	R5
5	T5	5 days	Thu 25-03-21	Wed 31-03-21	3,4	R1,R2
6	T6	8 days	Thu 25-03-21	Mon 05-04-21	5SS	R5
7	T7	5 days	Tue 06-04-21	Mon 12-04-21	5,6	R5



Ready

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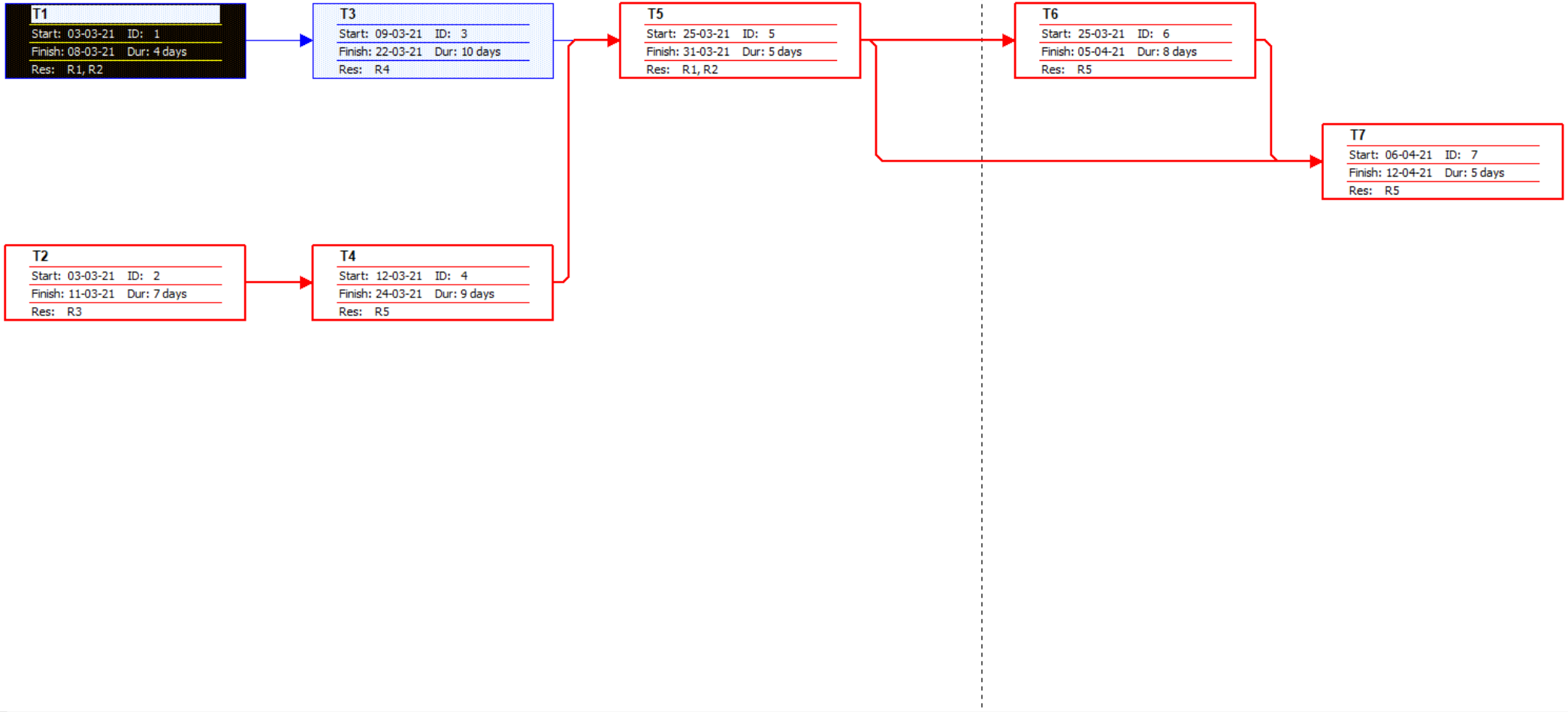
T1

Network Diagram



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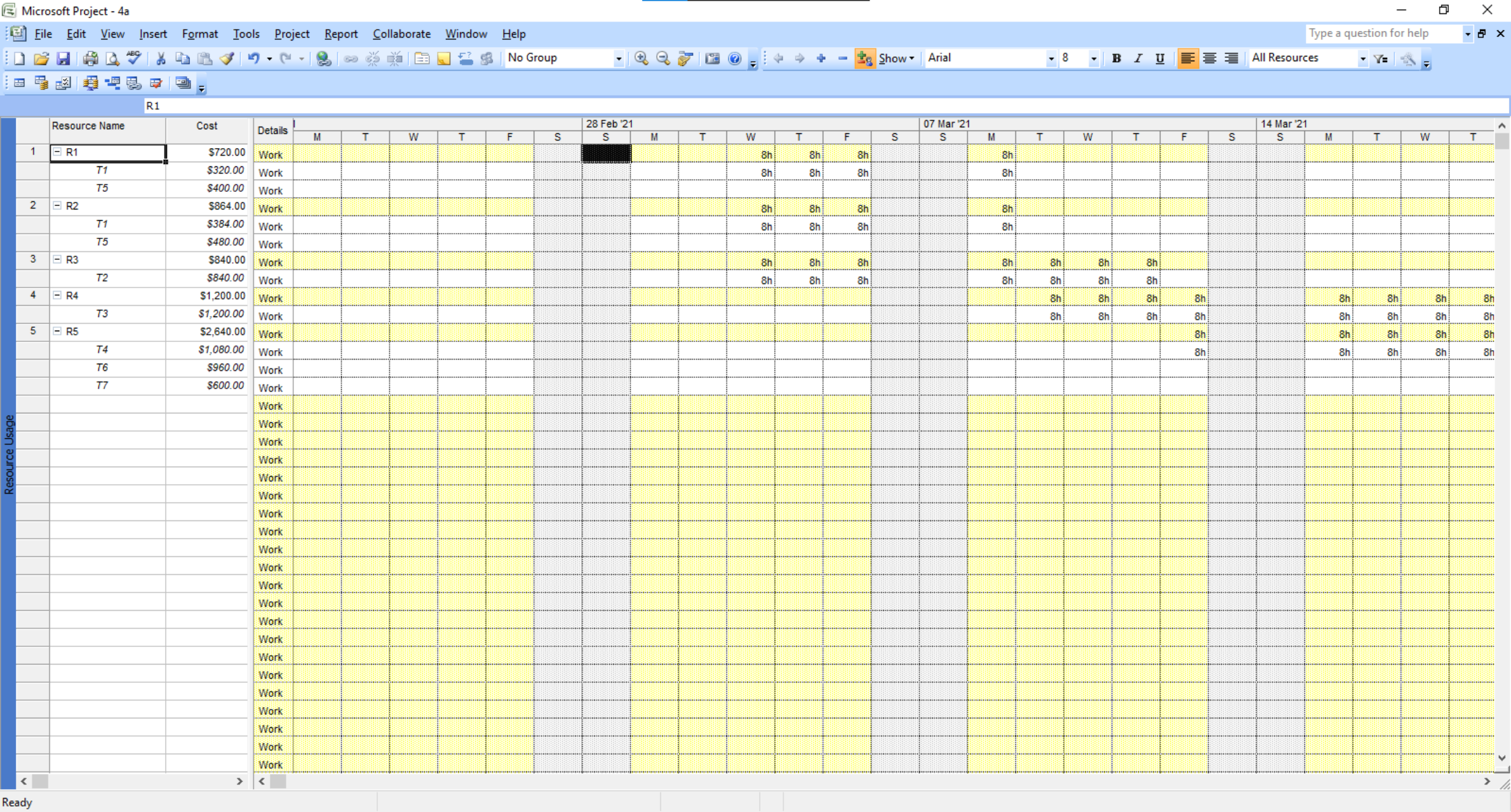
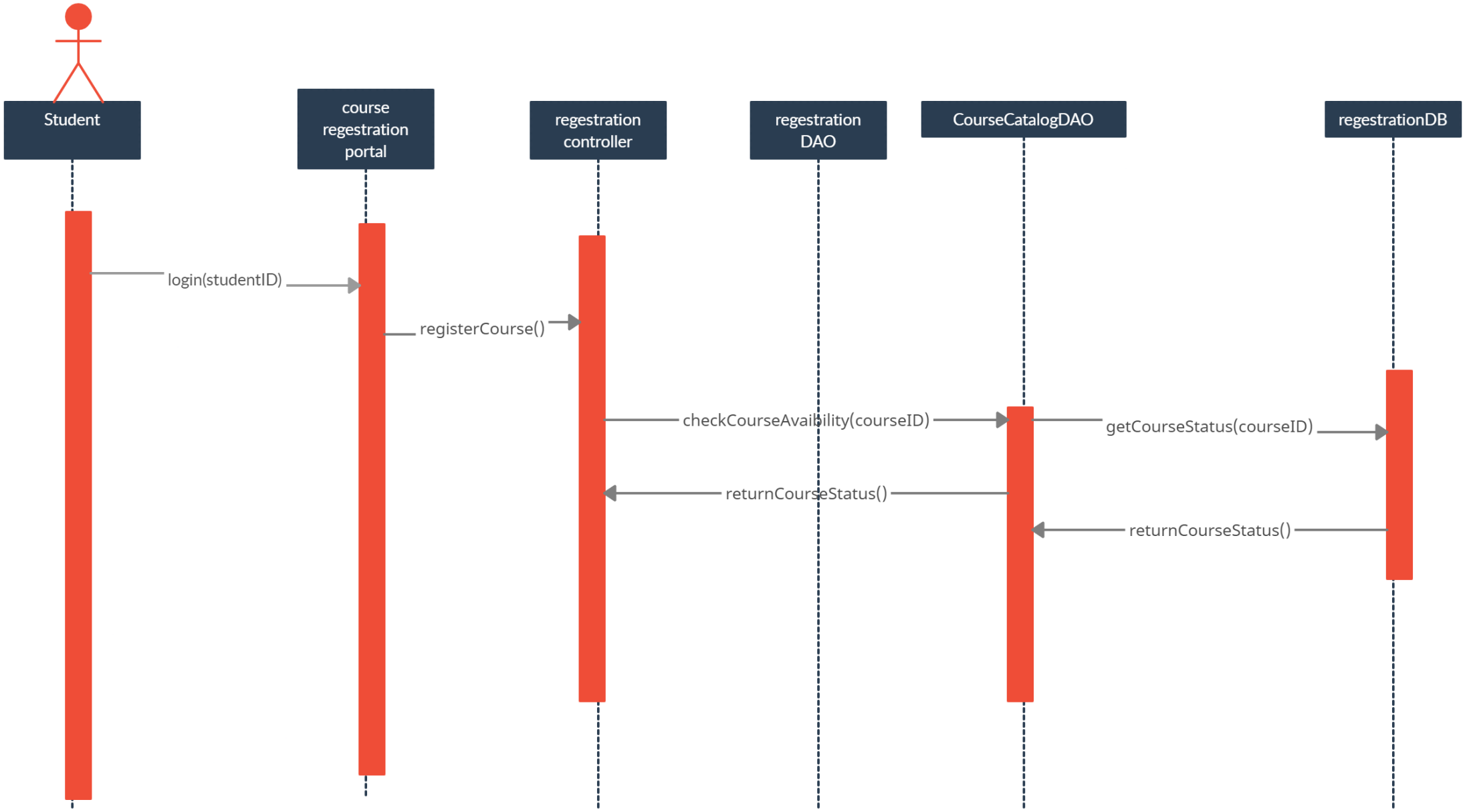
Resource Sheet

	Resource Name	Type	Material Label	Initials	Group	Max. Units	Std. Rate	Ovt. Rate	Cost/Use	Accrue At	Base Calendar	Code
1	R1	Work		R		100%	$10.00/hr	$0.00/hr	$0.00	Prorated	Standard	
2	R2	Work		R		100%	$12.00/hr	$0.00/hr	$0.00	Prorated	Standard	
3	R3	Work		R		100%	$15.00/hr	$0.00/hr	$0.00	Prorated	Standard	
4	R4	Work		R		100%	$15.00/hr	$0.00/hr	$0.00	Prorated	Standard	
5	R5	Work		R		100%	$15.00/hr	$0.00/hr	$0.00	Prorated	Standard	

Ready



	Resource Name	Cost	Details	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T
1	R1	$720.00	Work										8h	8h	8h			8h										
	T1	*$320.00*	Work										8h	8h	8h			8h										
	T5	*$400.00*	Work																									
2	R2	$864.00	Work										8h	8h	8h			8h										
	T1	*$384.00*	Work										8h	8h	8h			8h										
	T5	*$480.00*	Work																									
3	R3	$840.00	Work										8h	8h	8h			8h	8h	8h	8h							
	T2	*$840.00*	Work										8h	8h	8h			8h	8h	8h	8h							
4	R4	$1,200.00	Work																8h	8h	8h	8h			8h	8h	8h	8h
	T3	*$1,200.00*	Work																8h	8h	8h	8h			8h	8h	8h	8h
5	R5	$2,640.00	Work																			8h			8h	8h	8h	8h
	T4	*$1,080.00*	Work																			8h			8h	8h	8h	8h
	T6	*$960.00*	Work																									
	T7	*$600.00*	Work																									


Student
course regestration portal
regestration controller
regestration DAO
CourseCatalogDAO
regestrationDB
login(studentID)
registerCourse()
checkCourseAvailability(courseID)
getCourseStatus(courseID)
returnCourseStatus()
returnCourseStatus()

Name - Rajarshi Mitra

Roll - 81 Sem - 5th

Subject - Software Engineering Lab

Subject code - ESC591

4) A) Consider the following table

Task Name	Duration	Dependency	Resource
T_1	4	-	R1, R2
T2	7	-	R3
T3	10	T1 (FS)	R4
T4	9	T2 (FS)	R5
T5	5	T3 (FS), T4 (FS)	R1, R2
T6	8	T5 (SS)	R5
T7	5	T5 (FS), T6 (FS)	R5

Standard rates of resource are : R1 = $10/hr, R2 = $12/hr and R3, R4, R5 = $15/hr

Calculate the usage of the resources (in hours) with assigned task and determine manufacturing cost of the project and market price to achieve 15% profit.

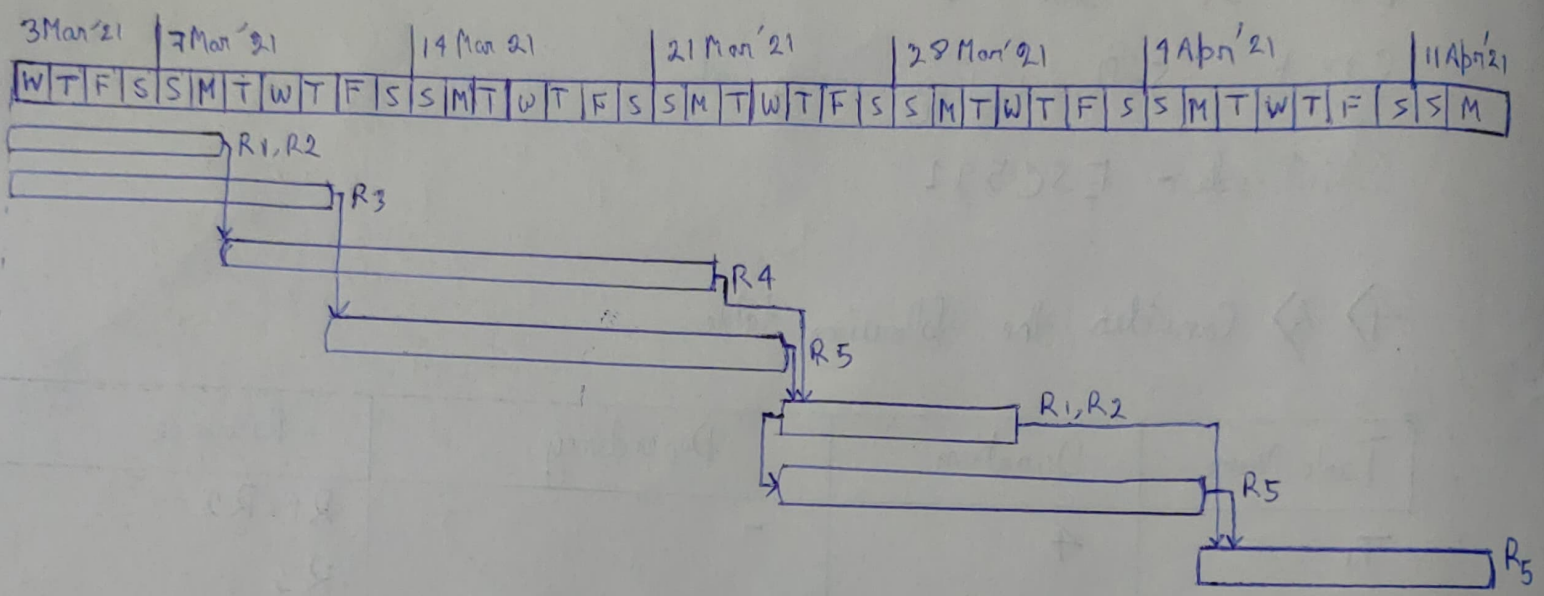
B) Draw a sequence diagram of online course registration system.

Ans → A)

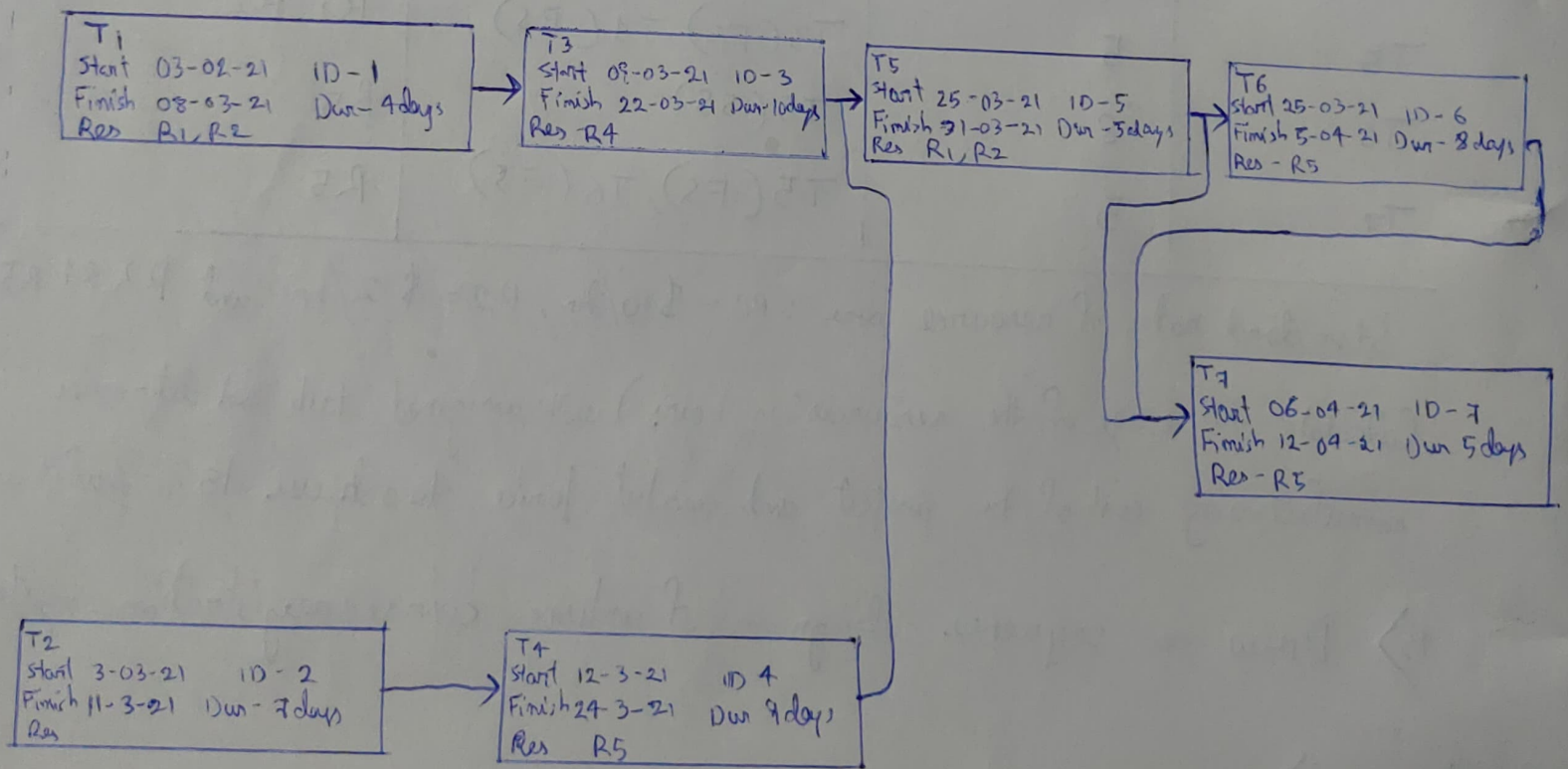
Entry Table :-

Task Name	Duration	Start	Finish	Predecessors	Resource Names
T_1	4 days	Wed 03-03-21	Mon 08-03-21		R1, R2
T2	7 days	Wed 03-03-21	Thu 11-03-21		R3
T3	10 days	Tue 09-03-21	Mon 22-03-21	1	R4
T4	9 days	Fri 12-03-21	Wed 24-03-21	2	R5
T5	5 days	Thu 25-03-21	Wed 31-03-21	3, 4	R1, R2
T6	8 days	Thu 25-03-21	Mon 05-04-21	555	R5
T7	5 days	Tue 06-04-21	Mon 12-04-21	5, 6	R5

Gantt Chart :-



Network diagram :-



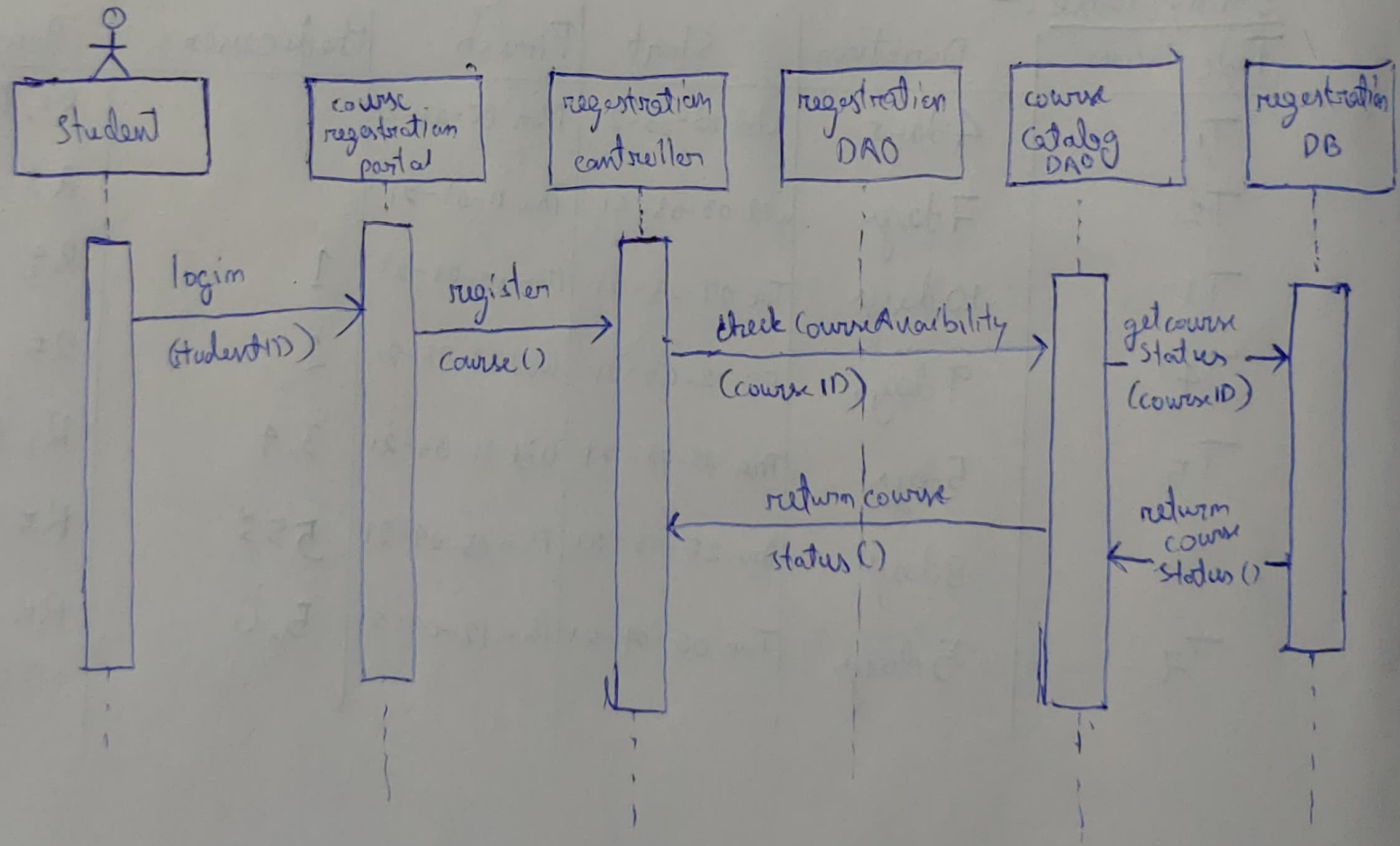
Usage of resource in hours :

Resources	Total cost = hours × std rate
R_1	$72 \times 10 = \$720$
R_2	$72 \times 12 = \$864$
R_3	$56 \times 15 = \$840$
R_4	$80 \times 15 = \$1200$
R_5	$176 \times 15 = \$2640$
	Total = $\$6264$

In this project manufacturing cost is :- $\$6264$

For 15% profit, market price will be = $\$7203.6$

Sol- B)


Student
course registration portal
registration controller
registration DAO
course Catalog DAO
registration DB
login
(StudentID)
register
course()
check CourseAvailability
(courseID)
getcourse status
(courseID)
return course
status()
return course status()