MPUG
Chennai

Effective Resource Management

Create a project plan with the following attributes:
1. The project starts on 6-Jul-2015.
2. Enter the tasks like below

Task Name	Duration
Software Development	**86.5 days**
Scope	**2.5 days**
Determine project scope	4 hrs
Secure project sponsorship	1 day
Define preliminary resources	1 day
Analysis/Software Requirements	**10.5 days**
Conduct needs analysis	5 days
Draft preliminary software specifications	3 days
Incorporate feedback on software specifications	1 day
Develop delivery timeline	1 day
Obtain approvals to proceed (concept, timeline, budget)	4 hrs
Design	**14.5 days**
Review preliminary software specifications	2 days
Develop functional specifications	5 days
Develop prototype based on functional specifications	4 days
Review functional specifications	2 days
Incorporate feedback into functional specifications	1 day
Obtain approval to proceed	4 hrs
Design complete	0 days
Development	**32 days**
Review functional specifications	1 day
Identify modular/tiered design parameters	1 day
Develop code	15 days
Developer testing (primary debugging)	15 days
Development complete	0 days
Testing	**59 days**
Develop unit test plans using product specifications	4 days
Develop integration test plans using product specifications	4 days
Unit Testing	**15 days**
Review modular code	5 days
Test component modules to product specifications	2 days
Identify anomalies to product specifications	3 days
Modify code	3 days
Re-test modified code	2 days
Unit testing complete	0 days
Integration Testing	**12 days**
Test module integration	5 days
Identify anomalies to specifications	2 days
Modify code	3 days

Re-test modified code	2 days
Integration testing complete	0 days
Deployment	**5 days**
Determine final deployment strategy	1 day
Develop deployment methodology	1 day
Secure deployment resources	1 day
Train support staff	1 day
Deploy software	1 day
Deployment complete	0 days
Post Implementation Review	**3 days**
Document lessons learned	1 day
Distribute to team members	1 day
Create software maintenance team	1 day
Post implementation review complete	0 days

3. Create 5 resources in Resource Sheet (R1 to R5).
4. Allocate maximum of 50% unit for Resource2
5. Create Offshore Calendar & Onsite Calendar
6. Mark 9th Jul 2015 & 14th Jul 2015 as holiday for Offshore & Onsite Calendars respectively.
7. Tag Resources 1 to 3 to Offshore Calendar & 4 to 5 to Onsite Calendar.
8. Mark 13th Jul 2015 as Personal Leave for Resource4.
9. Assign resources to the above tasks.
10. Identify the task assigned to R1 and swap R1 by R2 and observe the changes that happen in duration.
11. For few tasks add one more additional resource and observe the change happens on duration, effort etc.
12. Identify the resources who are overloaded.
13. Do the leveling with both Manual & Automatic options and observe the difference how Schedule is modified by Microsoft Project.
14. For one of the resource reduce the allocation unit from 100 to 50% and observe the change happens.
15. Observe the impact on schedule based on the holiday in the calendar and personal leave.
16. Identify all tasks allocated to the resource through the Resource – Usage view
17. Create a new ResourcePool with Res1, Res2, Res3 & Res4
    a. Create a new Project with only Scope & Analysis related tasks.
    b. Create another project with only same set of tasks. For both projects set the same Project Start Date.
    c. Link these 2 projects with Resource Pool (Resource -> ResourcePool->ShareResources) and select the ResourcePool MPP.
    d. Go to ResourceSheet in both Projects and observe the ResourceNames listed there.
    e. Allocate tasks only to Res1 & Res2 alone.
    f. Observe the Resource Over-Allocation.
    g. Do the Resource Leveling in Project1.
    h. Observe the difference it made in Project2.