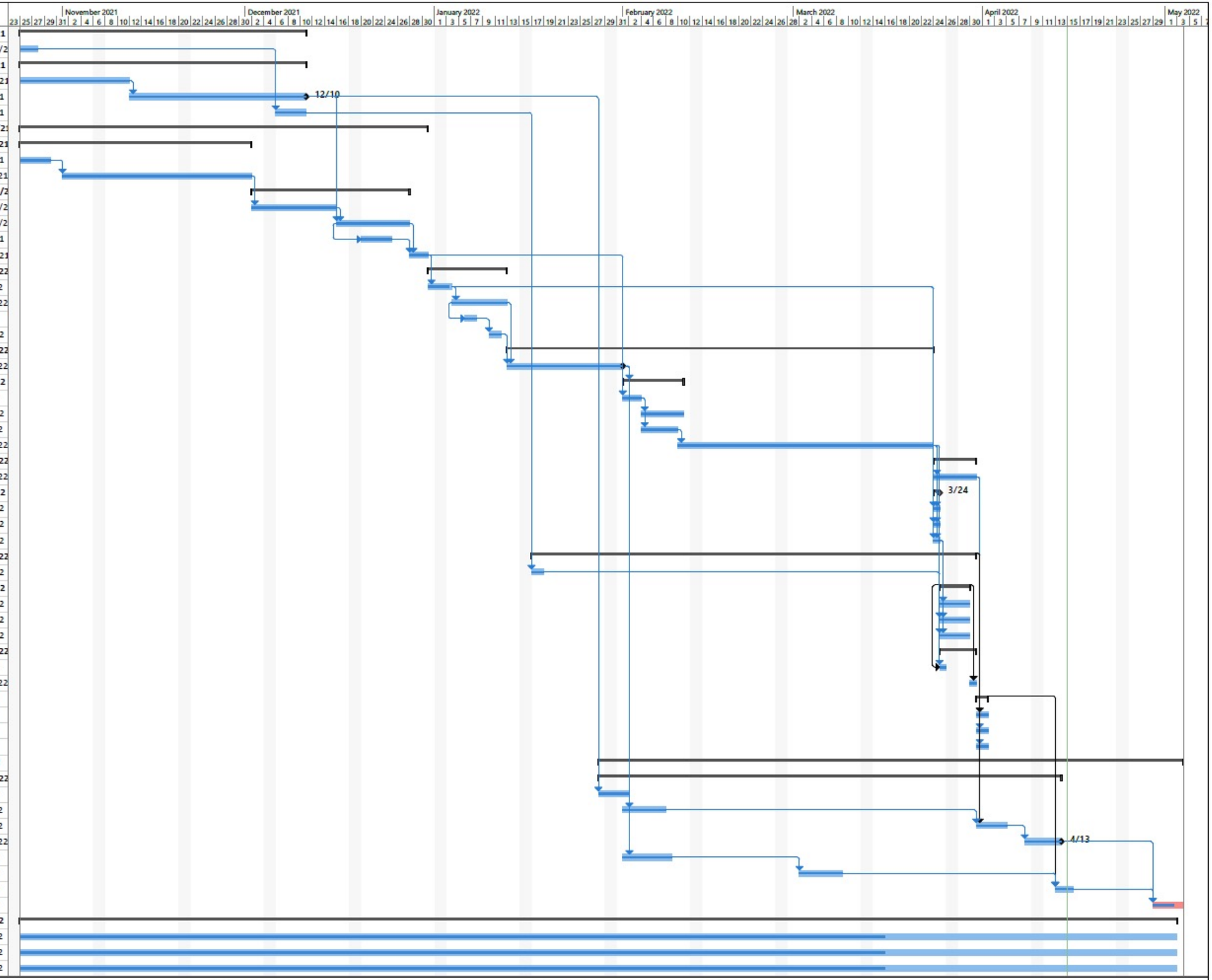
ID	Task Name	Duration	Start	Finish
1	**Task 1: Competition Preparation**	**35 days**	**Mon 10/25/2**	**Fri 12/10/21**
2	Task 1.1: Competition Registration	3 days	Mon 10/25/2	Wed 10/27/2
3	Task 1.2: Obtain Laboratory Access	**35 days**	**Mon 10/25/2**	**Fri 12/10/21**
4	Task 1.2.1: NAU EnE Lab Rapid Request Form	14 days	Mon 10/25/2	Thu 11/11/21
5	Task 1.2.2: Laboratory Planning Document	21 days	Fri 11/12/21	Fri 12/10/21
6	Task 1.3: Short Course Enrollment	5 days	Mon 12/6/21	Fri 12/10/21
7	**Task 2: Analyze Treatment Options**	**49 days**	**Mon 10/25/2**	**Thu 12/30/21**
8	Task 2.1: Treatment Research	**28 days**	**Mon 10/25/2**	**Wed 12/1/21**
9	Task 2.1.1: Literature Review	5 days	Mon 10/25/2	Fri 10/29/21
10	Task 2.1.2: Determine Criteria for Decision	23 days	Mon 11/1/21	Wed 12/1/21
11	Task 2.2: Preliminary Experiments	**18 days**	**Thu 12/2/21**	**Mon 12/27/2**
12	Task 2.2.1: Conduct Experiment Planning	10 days	Thu 12/2/21	Wed 12/15/2
13	Task 2.2.2: Conduct Experiments	8 days	Thu 12/16/2	Mon 12/27/2
14	Task 2.2.3: Sample Analysis	5 days	Mon 12/20/2	Fri 12/24/21
15	Task 2.3: Selection of Best Treatment Process	3 days	Tue 12/28/21	Thu 12/30/21
16	**Task 3: Bench Scale Model Design**	**9 days**	**Fri 12/31/21**	**Wed 1/12/22**
17	Task 3.1: Process Flow Diagram	2 days	Fri 12/31/21	Mon 1/3/22
18	Task 3.2: Parts and Materials Selection and Sourcing	7 days	Tue 1/4/22	Wed 1/12/22
19	Task 3.3: Process Design	2 days	Thu 1/6/22	Fri 1/7/22
20	Task 3.4: Drawing Production	2 days	Mon 1/10/22	Tue 1/11/22
21	**Task 4: Bench-Scale Model Fabrication and Testing**	**50 days**	**Thu 1/13/22**	**Wed 3/23/22**
22	Task 4.1: Fabrication and Testing	13 days	Thu 1/13/22	Mon 1/31/22
23	Task 4.2: Post-Treatment Sample Testing	**8 days**	**Tue 2/1/22**	**Thu 2/10/22**
24	Task 4.2.1: QA/QC Procedure	3 days	Tue 2/1/22	Thu 2/3/22
25	Task 4.2.2: VOC Testing	5 days	Fri 2/4/22	Thu 2/10/22
26	Task 4.2.3: Additional Analysis	4 days	Fri 2/4/22	Wed 2/9/22
27	Task 4.3: Model Redesign	30 days	Thu 2/10/22	Wed 3/23/22
28	**Task 5: Full-Scale Design**	**5 days**	**Thu 3/24/22**	**Wed 3/30/22**
29	Task 5.1: Bench-Scale Model Scaling	5 days	Thu 3/24/22	Wed 3/30/22
30	Task 5.2: Hydraulic Analysis	**1 day**	**Thu 3/24/22**	**Thu 3/24/22**
31	Task 5.2.1: Tank Design	1 day	Thu 3/24/22	Thu 3/24/22
32	Task 5.2.2: Pipe Design	1 day	Thu 3/24/22	Thu 3/24/22
33	Task 5.2.3: Pump Selection	1 day	Thu 3/24/22	Thu 3/24/22
34	**Task 6: Techno-Economic Analysis**	**53 days**	**Mon 1/17/22**	**Wed 3/30/22**
35	Task 6.1: Short Course Attendance	2 days	Mon 1/17/22	Tue 1/18/22
36	Task 6.2: Economic Analysis	**3 days**	**Fri 3/25/22**	**Tue 3/29/22**
37	Task 6.2.1: Construction Cost	3 days	Fri 3/25/22	Tue 3/29/22
38	Task 6.2.2: Operation Cost	3 days	Fri 3/25/22	Tue 3/29/22
39	Task 6.2.3: Lifecycle Cost	3 days	Fri 3/25/22	Tue 3/29/22
40	Task 6.3: Techno Analysis	**4 days**	**Fri 3/25/22**	**Wed 3/30/22**
41	Task 6.3.1: Removal Efficiency	1 day	Fri 3/25/22	Fri 3/25/22
42	Task 6.3.2: Process Requirements and Investment	1 day	Wed 3/30/22	Wed 3/30/22
43	**Task 7: Impacts Analysis**	**2 days**	**Thu 3/31/22**	**Fri 4/1/22**
44	Task 7.1: Economic Impacts	2 days	Thu 3/31/22	Fri 4/1/22
45	Task 7.2: Environmental Impacts	2 days	Thu 3/31/22	Fri 4/1/22
46	Task 7.3: Societal Impacts	2 days	Thu 3/31/22	Fri 4/1/22
47	**Task 8: Deliverables**	**68 days**	**Fri 1/28/22**	**Tue 5/3/22**
48	Task 8.1: Competition Deliverables	**54 days**	**Fri 1/28/22**	**Wed 4/13/22**
49	Task 8.1.1: Experimental Safety Plan	3 days	Fri 1/28/22	Tue 2/1/22
50	Task 8.1.2: Preliminary Report	5 days	Tue 2/1/22	Mon 2/7/22
51	Task 8.1.3: Technical Report	3 days	Thu 3/31/22	Mon 4/4/22
52	Task 8.1.4: Presentation and Competition	4 days	Fri 4/8/22	Wed 4/13/22
53	Task 8.2: 30% Submittal	6 days	Tue 2/1/22	Tue 2/8/22
54	Task 8.3: 60% Submittal	5 days	Wed 3/2/22	Tue 3/8/22
55	Task 8.4: 90% Submittal	3 days	Wed 4/13/22	Fri 4/15/22
56	Task 8.5: 100% Submittal	3 days	Fri 4/29/22	Tue 5/3/22
57	**Task 9: Project Management**	**136 days**	**Mon 10/25/2**	**Mon 5/2/22**
58	Task 9.1: Meetings	136 days	Mon 10/25/2	Mon 5/2/22
59	Task 9.2: Schedule Management	136 days	Mon 10/25/2	Mon 5/2/22
60	Task 9.3: Resource Management	136 days	Mon 10/25/2	Mon 5/2/22



Project: WERC Gantt Chart NEW
Date: Fri 4/15/22

Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress