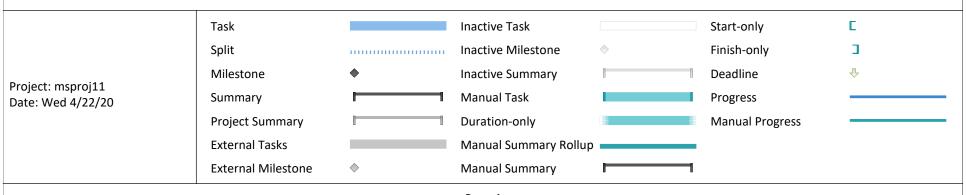
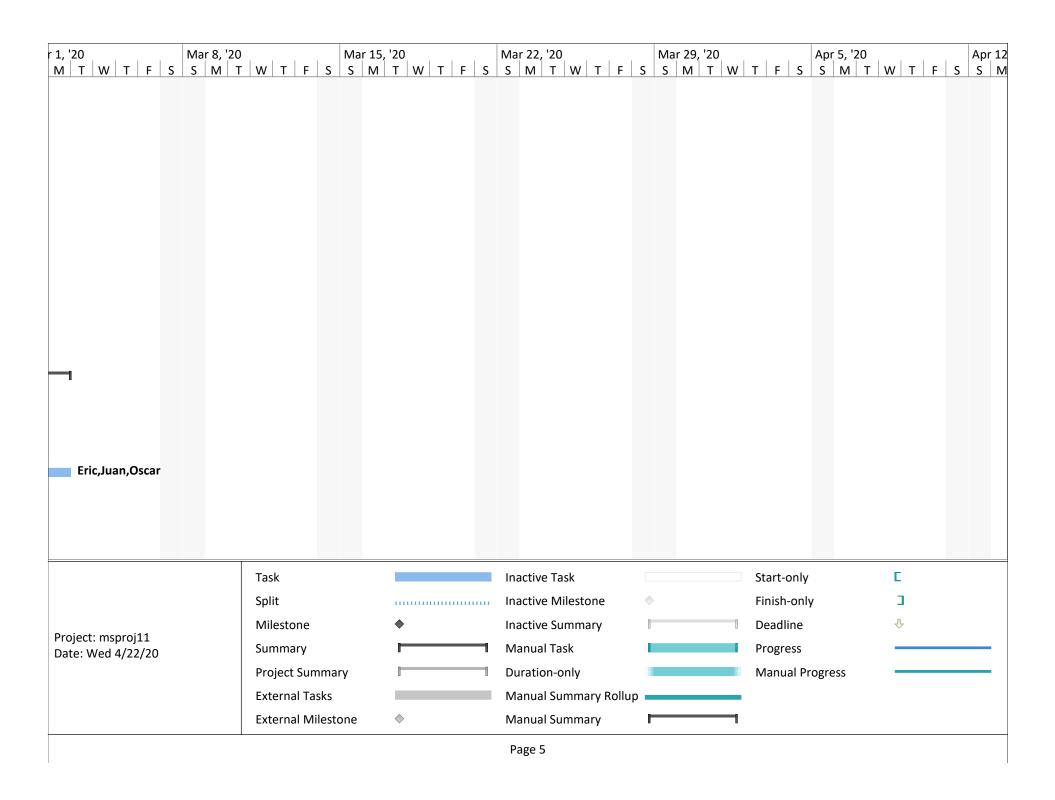
	ssignment wner	0	Task Mode	Task Name			Duration	Start	Finish	Predecessors	Resource Names	M S
1		~	<b>-</b> 5	Start			0 days	Wed 1/8/20	Wed 1/8/20	)	Eric,Juan,Oscar	
2		<b>~</b>	-5	Introductory meetir	ng with faculty advis	or	0 days	Sun 1/12/20	Sun 1/12/20	1	Eric,Juan,Oscar	
3		<b>~</b>	-5	Research			20 days	Wed 1/15/2	Tue 2/11/2	(2		
4		<b>✓</b>	-5	Read and take no	tes on article 1		2 days	Wed 1/15/2	Thu 1/16/20	2	Eric	
5		<b>~</b>	-5	Read and take no	tes on article 2		2 days	Wed 1/15/2	Thu 1/16/20	2	Juan	
6		<b>~</b>	-5	Read and take no	tes on article 3		2 days	Wed 1/15/2	Thu 1/16/20	2	Oscar	
7		<b>✓</b>	-5	Hold team meetii	ng(s) to discuss		3 days	Mon 1/20/2	Wed 1/22/2	24,5,6	Eric,Juan,Oscar	
8		<b>~</b>	-5	Compile Research	n Documentation		6 days	Wed 1/22/2	Wed 1/29/2	2 7	Eric,Juan,Oscar	
9		<b>~</b>	-5	Introductory Mee	eting with industry s	ponsors	0 days	Wed 1/29/2	Wed 1/29/2	28		
10		<b>~</b>	-5	Refine PDS/Requi	irements Document	ation	3 days	Wed 2/5/20	Fri 2/7/20	7	Juan	
11			-5	Revise Schedule			3 days	Thu 1/23/20	Mon 1/27/2	27	Eric	
12		<b>✓</b>	-5	Prepare Faculty A	dvisors Progress Up	date	1 day	Thu 1/23/20	Thu 1/23/20	7	Oscar	
13		<b>~</b>	-5)	Prepare proposal sponsors	presentation for inc	dustry	10 days	Wed 1/29/20	Tue 2/11/20	9	Eric,Juan,Oscar	
14		<b>✓</b>	-5	End of Prelim Res	earch phase		0 days	Tue 2/11/20	Tue 2/11/20	13		
15			-5	Model/Simulate			14 days	Wed 2/12/2	Mon 3/2/20	14		_
16		<b>✓</b>	-5	Find Varactor opt	ions in digikey		3 days	Wed 2/12/2	2 Fri 2/14/20	14	Eric	
17		<b>✓</b>	-5	Find/create Varad	ctor spice model or <i>i</i>	ADS model	2 days	Wed 2/12/2	2 Thu 2/13/20	14	Juan,Eric	
18			<b>-</b> 5	Simulate using AI	•		7 days	Fri 2/14/20	Mon 2/24/2	2 17	Juan	
19			-5	Simulate using M	ATLAB		7 days	Fri 2/14/20	Mon 2/24/2	2 17	Eric	
20			-5	Compile Simulation	on documentation		5 days	Tue 2/25/20	Mon 3/2/20	16,17,18,19	Eric,Juan,Oscar	
21		<b>✓</b>	*	Create/Update Bo	OM rough draft		3 days	Tue 2/25/20	Thu 2/27/20	18	Eric	
22		<b>✓</b>	-5	Refine PDS/Requi	irements Document	ation	3 days	Tue 2/25/20	Thu 2/27/20	18	Juan	
23			-	Revise Schedule			3 days	Tue 2/25/20	Thu 2/27/20	18	Eric	
24		<b>✓</b>	-5	Prepare Faculty A	dvisors Progress Up	date	3 days	Wed 2/12/2	2 Fri 2/14/20		Eric	
				Task		Inactive Tas	sk		Start-	only	Е	
				Split		Inactive Mi	estone	$\Diamond$	Finish	-only	3	
				Milestone	<b>♦</b>	Inactive Su	mmary		Deadl	ine	$\Phi$	
-	msproj11 ed 4/22/20			Summary		Manual Tas	k		Progre	ess		_
	,,0			Project Summary		Duration-o	nly		Manu	al Progress		_
				External Tasks		Manual Sur	nmary Rollu					
				External Milestone	<b>♦</b>	Manual Sur	nmary		<b>—</b> I			
						Page 1						

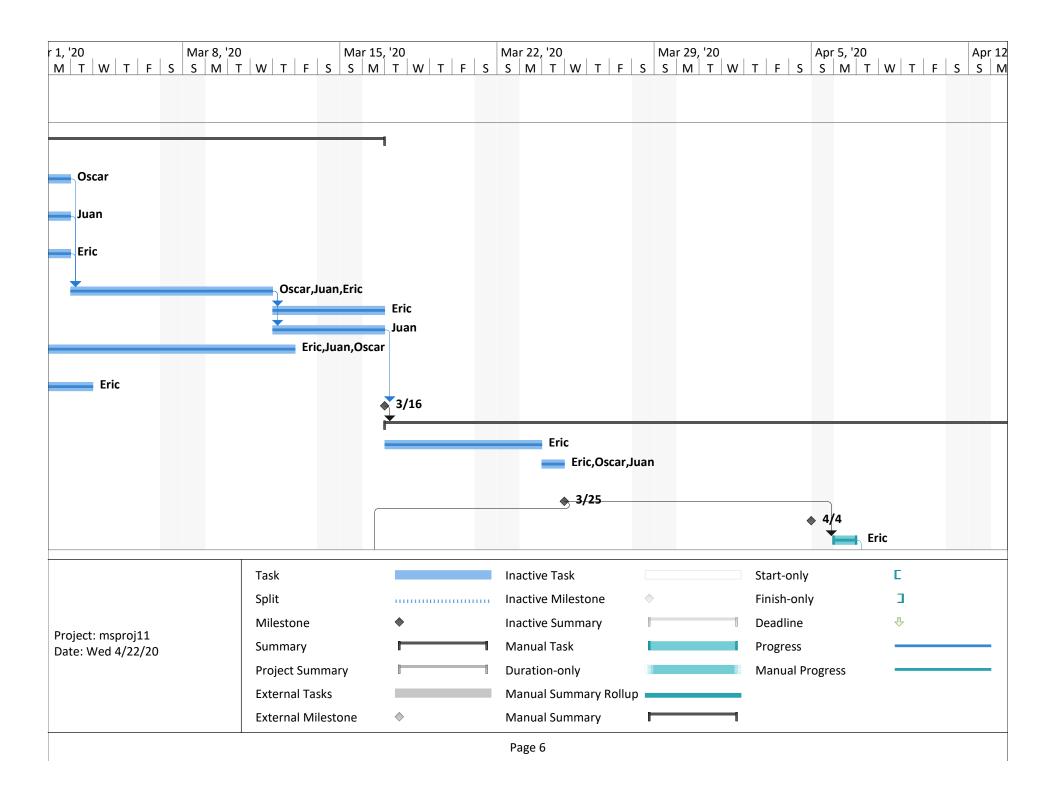
D	Assignment Owner	0	Task Mode	Task Name			Duration	Start	Finish	Predecessors	Resource Names	M S
25		<b>~</b>	-	Prepare Progress Industry Sponsor	Update Presentatio s	n for	10 days		Tue 2/25/20		Eric,Juan,Oscar	
26		<b>~</b>	-5	End of Prelim Mo	del and Simulation	ohase	0 days	Thu 2/27/20	Thu 2/27/2	2023		
27		<b>~</b>	-	Research Board des	sign for other Varact	tor loaded	12 days	Fri 2/28/20	Mon 3/16/20	26		
28		<b>~</b>	-	Read and take no De-embedding)	ites on article (S-par	ameter	2 days	Fri 2/28/20	Mon 3/2/20	26	Oscar	
29		<b>~</b>	-	Read and take no Characteristics)	ites on article (Meas	uring Board	2 days	Fri 2/28/20	Mon 3/2/20	26	Juan	
30		<b>~</b>	-	Read and take no PCB Design)	tes on article (High	Frequency	2 days	Fri 2/28/20	Mon 3/2/20	26	Eric	
31		<b>✓</b>	-5	Hold team meeti	ng to discuss		7 days	Tue 3/3/20	Wed 3/11,	/2 28,29,30	Oscar,Juan,Eric	
32		<b>~</b>	-5	Refine PDS/Requ	irements Document	ation	3 days	Thu 3/12/20	Mon 3/16	/2 31	Eric	
33		<b>~</b>	-5	Revise Schedule			3 days	Thu 3/12/20	Mon 3/16	/231	Juan	
34		<b>~</b>		Prepare Progress Industry Sponsor	Update Presentatio s	n for	10 days	Fri 2/28/20	Thu 3/12/20		Eric,Juan,Oscar	
35		<b>~</b>	-5	Prepare Faculty A	Advisors Progress Up	date	3 days	Fri 2/28/20	Tue 3/3/20	)	Eric	
36		<b>~</b>	-5	End of Low Frequ	iency Research		0 days	Mon 3/16/2	Mon 3/16	/2 33		
37			-5	Initial Prototype (1	44Mhz)		57 days?	Tue 3/17/20	Tue 6/2/2	0 36		
38		<b>~</b>	<b>-</b> 5	Design 144MHZ F	PCB in Altium		5 days	Tue 3/17/20	Mon 3/23	<b>′</b> 2	Eric	
39		<b>~</b>	-5	Final board check House	before submission	to Board	1 day		Tue 3/24/20		Eric,Oscar,Juan	
40		<b>~</b>	-5	Place OSHPark O	rder		0 days	Wed 3/25/2	Wed 3/25/	/2	Eric	
41		<b>~</b>	-5	Receive boards fr	om OSHPark		0 days	Sat 4/4/20	Sat 4/4/20	1		
42		<b>✓</b>	*	Assemble Board			1 day	Mon 4/6/20	Mon 4/6/2	2040	Eric	
				Task		Inactive Tas	k		Start	:-only	Е	
				Split		Inactive Mil	estone	$\Diamond$	Finis	h-only	3	
Draina	oti manrai11			Milestone	<b>♦</b>	Inactive Sun	nmary		Dead	dline	<b>\$</b>	
	t: msproj11 Wed 4/22/20			Summary		Manual Tas	k		Prog	ress		
	,,			Project Summary		Duration-or	ıly		Man	ual Progress		
				External Tasks		Manual Sun	nmary Rollu	0				
				External Milestone	<b>♦</b>	Manual Sun	nmary		<del></del>			
						Page 2						

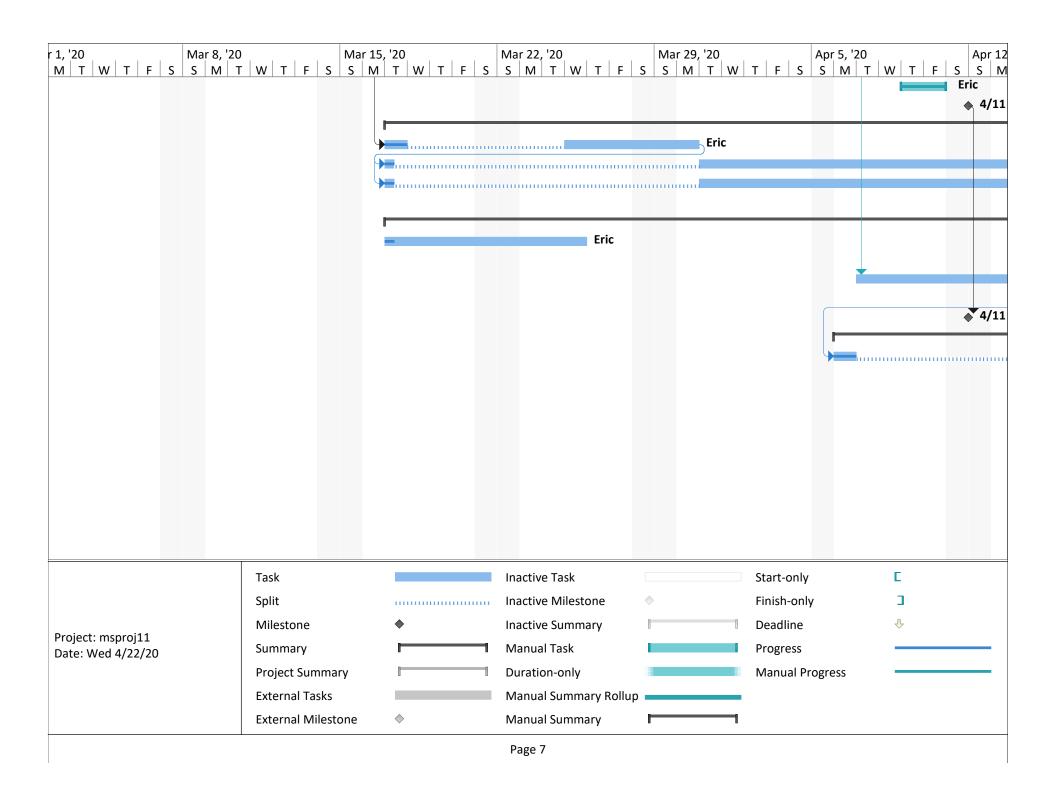
	Assignment Owner	0	Task Mode	Task Name			Duration	Start	Finish	Predecessors	Resource Names	M S
43		<b>V</b>	*	Refine PDS/Requ	irements Document	ation	2 days	Thu 4/9/20	Fri 4/10/20		Eric	
44		<b>~</b>	-5	Board Continuity	Assembly Check		0 days	Sat 4/11/20	Sat 4/11/20		Eric	
45			-5	<b>Transient Simula</b>	tions		26.75 days	s Tue 3/17/20	Tue 4/21/2	C		
46			-5	Find values for	modeling compone	nt parasitics	5 days	Tue 3/17/20	Mon 3/30/2	40	Eric	
47			-5	Simulate Rise 1	ime Vs. Tx Line Leng	gth	17 days	Tue 3/17/20	Tue 4/21/20	46	Eric	
48			-5	Simulate Rise Tim	ne Vs. DC Bias		17 days	Tue 3/17/20	Tue 4/21/20	46	Eric	
49			-5	Frequency Doma	in Simulations		7 days	Tue 4/21/20	Thu 4/30/20	48	Eric	
50			-5	Measurements			34 days	Tue 3/17/20	Thu 4/30/2	(		
51			-5	Time Domain F Bias	Rise time Measurem	ents vs DC	7 days	Tue 3/17/20	Wed 3/25/20		Eric	
52			-5	Frequency Dor	nain Measurements	(NanoVNA)	11 days	Tue 4/7/20	Tue 4/21/20	42	Eric	
53			-5	Compile/Analy	ze 144Mhz Measure	ement Result	7 days	Wed 4/22/2	Thu 4/30/20	52		
54			-5	End of Initial Prot	otype phase		0 days	Sat 4/11/20	Sat 4/11/20	44		
55			-5	6Ghz Model Rese	earch/Design		42 days?	Mon 4/6/20	Tue 6/2/20			
56			-5	Transient Simu	lations		12 days	Mon 4/6/20	Fri 5/15/20	53		
57			-5	S-Param Simul	ations		12 days	Fri 5/1/20	Mon 5/18/2	253		
58			-5	EM Simulation	S		12 days	Fri 5/1/20	Mon 5/18/2	253		
59			-5	Drafting of Wh	ite Paper		11 days?	Tue 5/19/20	Tue 6/2/20			
60			-5	First Draft C	reation		1 day?	Tue 5/19/20	Tue 5/19/20	58		
61			-5	First Draft S	ubmitted to Sponsor	rs	0 days	Tue 5/19/20	Tue 5/19/20			
62			-5	Review Revi	sions		5 days	Wed 5/20/2	Tue 5/26/20	61		
63			-5	Second Draf	t Creation		5 days	Wed 5/27/2	Tue 6/2/20	62		
64			-5	Second Draf	t Submittal		0 days	Tue 6/2/20	Tue 6/2/20	63		
65			-5	Presentation/Proje	ct Wrap up		33 days?	Wed 4/22/2	Sun 6/7/20	52		
66			-5	Compile all docur	nentation		14 days	Wed 4/22/2	Mon 5/11/2	26		
				Task		Inactive Tasl	k		Start-	only	Е	
				Split		Inactive Mile	estone	$\Diamond$	Finish	-only	3	
D				Milestone	<b>♦</b>	Inactive Sun	nmary		Deadl	ine	₽	
	Project: msproj11 Date: Wed 4/22/20			Summary		Manual Task	<		Progre	ess		_
	· •			Project Summary		Duration-on	ly		Manu	al Progress		_
				External Tasks		Manual Sum	nmary Rollup					
				External Milestone	$\Diamond$	Manual Sum	nmary		<u> </u>			
						Page 3						

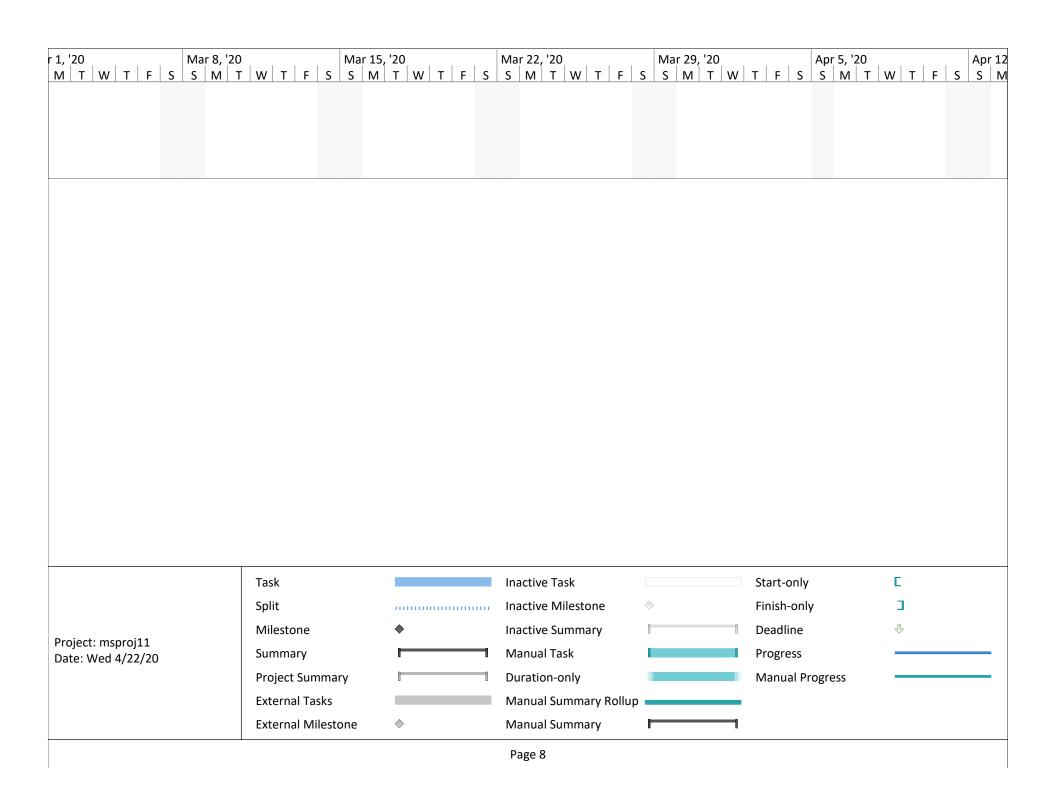
ID	Assignment		Task	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Ma
	Owner	0	Mode							S
67			-5	Present Results to Industry Sponsors	7 days	Tue 5/12/20	Wed 5/20/2	66		
68		****	-5	Technical Work Stops (Official)	0 days	Mon 6/1/20	Mon 6/1/20			
69		****	-5	Prepare for presentation speaking roles	2 days?	Mon 6/1/20	Tue 6/2/20			
70			*	Poster Board Creation	5 days	Mon 6/1/20	Fri 6/5/20			
71		***	-5	Poster due for Poster Session	0 days	Sun 6/7/20	Sun 6/7/20			











12, '20 M   T   W   T   F   S	Apr	19, '20	\_	_	Apr 26	5, '20 	\ <u>\</u> \  -	-   -	١,٠	May	/ 3, '2	20 T   1	,   <sub>T</sub>		ر ا	May	y 10,	'20	\ <sub>\\</sub>   .		۱ ,	Ma	ıy 17,	'20	\ <sub>\\</sub>   -	-   -	,	May S 1
IVI I VV I F 3	3	IVI   I	VV   I   F	3	3   101	<u>         </u>	VV	I   F	3	3	IVI	IV	V   I	F	_ 3_	3	IVI	1	VV	<u> </u>	3	3	IVI	ı	VV	F	3	3   1
			Task							Ina	ctive	Task								Start	-only	,			Е			
			Split			1111				Ina	ctive	Mile	stone		$\Diamond$					Finish	n-onl	У			3			
Droject: menroi11			Milestone	!		<b>♦</b>				Ina	ctive	Sum	mary							Dead	line				$\hat{\mathbf{v}}$			
Project: msproj11 Date: Wed 4/22/20			Summary							Ma	nual	Task								Progr	ess							
			Project Su		Ý						ration									Manı	ual P	rogre	ess					
			External T										mary I	Rollu	p <b>=</b>													
			External N	/lilesto	one	<b>\langle</b>				Ma	inual	Sumi	mary						_									
										Pa	ige 9																	

2, '20 1	Apr S	19, '20 M T	w T	F	Ap S S	or 26, '2   M	20 T W	T   F	s	Ma <sup>s</sup>	y 3, '20 M   T   W	T   F	S	1ay 10,	'20 T W	T   F	s	May S	17, '2 M T	0   w	т   ғ	S	May 2 S N
				-		-			-					-				-					-
			<del>-</del> .													<u> </u>							
			Task Split								ctive Task	tone				Start Finish		,					
			Milesto	ne			<b>♦</b>				ctive Sumr					Dead				<b></b>			
roject: msproj11 ate: Wed 4/22/20			Summa								nual Task	~-1				Progr				_			
acc. Wed 4/22/20			Project		mary						ration-only					Manı		ogres	SS	-			
			Externa	ıl Task	<b>KS</b>					Ma	nual Sumr	nary Rollu	ıp 📥										
			Externa	ıl Mile	estone		$\Diamond$			Ma	nual Sumr	nary											
		'								Pa	ge 10												

