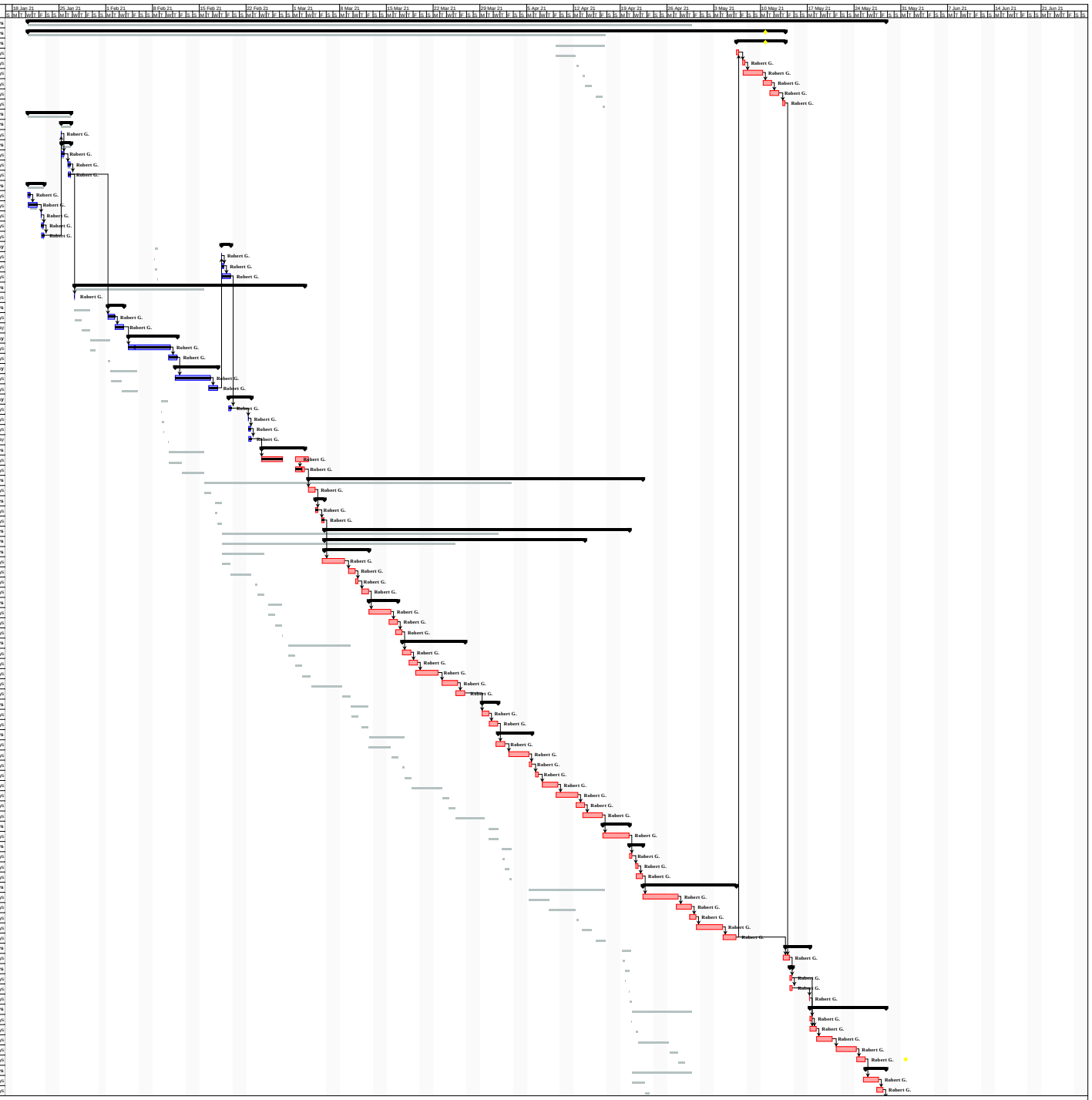
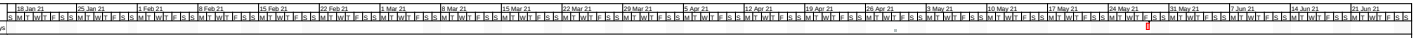
		Name	Work	Task...	Start	Actual Start	Percent ...	Finish	Actual Finish	Predecessors	Type	Resource Names	Free Slack
1		**Projekt Programu Powtórkowego**	**269.2 ho...**		**20/01/21 ...**	**24/02/21 08:00**	**2 %**	**28/05/...**			**Fixed Units**		**0 days**
2		**Prace przygotowawcze**	**36 hours**		**20/01/21 ...**		**5 %**	**13/05/...**			**Fixed Work**		**0 days**
3		**Przygotowanie do pisania pracy**	**16 hours**		**06/05/21 ...**		**0 %**	**13/05/...**			**Fixed Work**		**0 days**
4		Konfiguracja LaTeX Overleaf	2 hours	mine	06/05/21 0...		0%	06/05/2...		91	Fixed Units		0 days
5		Przygotowanie szablonu LaTeX	2 hours	mine	07/05/21 0...		0%	07/05/2...		4	Fixed Work	Robert G.	0 days
6		Przygotowanie strony tytuowej	2 hours	mine	07/05/21 1...		0%	10/05/2...		5	Fixed Work	Robert G.	0 days
7		Przygotowanie spisu treci	4 hours	mine	10/05/21 0...		0%	11/05/2...		6	Fixed Work	Robert G.	0 days
8		Abstract	4 hours	mine	11/05/21 1...		0%	12/05/2...		7	Fixed Work	Robert G.	0 days
9		Abstract po angielsku	2 hours	mine	13/05/21 0...		0%	13/05/2...		8	Fixed Work	Robert G.	0 days
10		**Przygotowanie merytoryczne**	**15 hours**		**20/01/21 ...**		**100 %**	**26/01/...**	**26/01/21 19:00**		**Fixed Units**		**6 days**
11		**Raport o istniejcych systemach**	**6 hours**		**25/01/21 ...**		**100 %**	**26/01/...**	**26/01/21 19:00**		**Fixed Units**		**6 days**
12		Lista istniejcych systemów	1 hour	mine	25/01/21 0...	25/01/21 08:00	100%	25/01/2...	25/01/21 09:00	22	Fixed Work	Robert G.	0 days
13		**Charakterystyka istniejcych ...**	**5 hours**		**25/01/21 ...**		**100 %**	**26/01/...**	**26/01/21 19:00**		**Fixed Units**		**6 days**
14		Zalety	2 hours	mine	25/01/21 0...	25/01/21 09:00	100%	25/01/2...	25/01/21 19:00	12	Fixed Work	Robert G.	0 days
15		Wady	2 hours	mine	26/01/21 0...	26/01/21 08:00	100%	26/01/2...	26/01/21 18:00	14	Fixed Work	Robert G.	0 days
16		Wnioski	1 hour	mine	26/01/21 1...	26/01/21 10:00	100%	26/01/2...	26/01/21 19:00	15	Fixed Work	Robert G.	0 days
17		**Przegld literatury o nauczaniu ...**	**9 hours**		**20/01/21 ...**		**100 %**	**22/01/...**	**22/01/21 19:00**		**Fixed Units**		**6 days**
18		Przygotowanie listy prac naukowych	2 hours	mine	20/01/21 0...	20/01/21 08:00	100%	20/01/2...	20/01/21 18:00		Fixed Work	Robert G.	0 days
19		Lektura wytypowanych opracowan	4 hours	mine	20/01/21 1...	20/01/21 10:00	100%	21/01/2...	21/01/21 19:00	18	Fixed Work	Robert G.	0 days
20		Podsumowanie - Rola pamici w ojc...	1 hour	mine	22/01/21 0...	22/01/21 08:00	100%	22/01/2...	22/01/21 09:00	19	Fixed Work	Robert G.	0 days
21		Podsumowanie - Uwarunkowania p...	1 hour	mine	22/01/21 0...	22/01/21 09:00	100%	22/01/2...	22/01/21 18:00	20	Fixed Work	Robert G.	0 days
22		Podsumowanie - Krzywa zapomina...	1 hour	mine	22/01/21 1...	22/01/21 10:00	100%	22/01/2...	22/01/21 19:00	21	Fixed Work	Robert G.	0 days
23		**Przegld technologii**	**5 hours**		**18/02/21 ...**		**100 %**	**19/02/...**	**19/02/21 18:00**		**Fixed Work**		**1 day**
24		Przegld techn. Frontendowej	1 hour	mine	18/02/21 0...	18/02/21 08:00	100%	18/02/2...	18/02/21 09:00	37	Fixed Work	Robert G.	0 days
25		Przegld techn. Backendowej	1 hour	mine	18/02/21 0...	18/02/21 09:00	100%	18/02/2...	18/02/21 18:00	24	Fixed Work	Robert G.	0 days
26		Przegld techn. Mobile	3 hours	mine	18/02/21 1...	18/02/21 10:00	100%	19/02/2...	19/02/21 18:00	25	Fixed Work	Robert G.	0 days
27		**Projekt architektury systemu**	**60.2 hours**		**27/01/21 ...**	**24/02/21 08:00**	**8 %**	**02/03/...**			**Fixed Units**		**63 days**
28		Nazwa systemu	1 hour	mine	27/01/21 0...	27/01/21 08:00	100%	27/01/2...	27/01/21 09:00	16	Fixed Work	Robert G.	90.667 days
29		**Opracowanie algorytmów systemu**	**8 hours**		**01/02/21 ...**		**100 %**	**03/02/...**	**03/02/21 18:00**		**Fixed Units**		**2 days**
30		Algorytm selekcji hase do nauki	4 hours	mine	01/02/21 0...	01/02/21 08:00	100%	02/02/2...	02/02/21 09:00	16	Fixed Work	Robert G.	0 days
31		Algorytm wyznaczania powtórek	4 hours	mine	02/02/21 0...	02/02/21 09:00	100%	03/02/2...	03/02/21 18:00	30	Fixed Work	Robert G.	1 day
32		**Specyfikacja wymaga**	**13.2 hours**		**04/02/21 ...**		**100 %**	**11/02/...**	**11/02/21 18:00**		**Fixed Units**		**1 day**
33		Wymagania funkcjonalne	10.2 hours	mine	04/02/21 1...	04/02/21 10:00	100%	10/02/2...	10/02/21 18:00	31	Fixed Work	Robert G.	0 days
34		Wymagania niefunkcjonalne	3 hours	mine	10/02/21 1...	10/02/21 10:00	100%	11/02/2...	11/02/21 18:00	33	Fixed Work	Robert G.	0 days
35		**Projekt interfejsu uytkownika**	**13 hours**		**11/02/21 ...**		**100 %**	**17/02/...**	**17/02/21 19:00**		**Fixed Units**		**1 day**
36		Diagramy LOFI	9 hours	mine	11/02/21 1...	11/02/21 10:00	100%	16/02/2...	16/02/21 18:00	34	Fixed Work	Robert G.	0 days
37		Projekty poszczegónych interfejsów	4 hours	mine	16/02/21 1...	16/02/21 10:00	100%	17/02/2...	17/02/21 19:00	36	Fixed Work	Robert G.	0 days
38		**Wybór technologii**	**4 hours**		**19/02/21 ...**		**100 %**	**22/02/...**	**22/02/21 19:00**		**Fixed Units**		**1 day**
39		Wybór techn. Front-end	1 hour	mine	19/02/21 1...	19/02/21 10:00	100%	19/02/2...	19/02/21 19:00	26	Fixed Work	Robert G.	0 days
40		Wybór techn. Back-end	1 hour	mine	22/02/21 0...	22/02/21 08:00	100%	22/02/2...	22/02/21 09:00	39	Fixed Work	Robert G.	0 days
41		Wybór techn. Mobile	1 hour	mine	22/02/21 0...	22/02/21 09:00	100%	22/02/2...	22/02/21 18:00	40	Fixed Work	Robert G.	0 days
42		Wybór Bazy danych	1 hour	mine	22/02/21 1...	22/02/21 10:00	100%	22/02/2...	22/02/21 19:00	41	Fixed Work	Robert G.	1 day
43		**Model bazy danych**	**21 hours**		**24/02/21 ...**	**24/02/21 08:00**	**6 %**	**02/03/...**			**Fixed Units**		**0 days**
44		Diagramy ERD	17 hours	mine	24/02/21 0...	24/02/21 08:00	70%	01/03/2...		42	Fixed Work	Robert G.	0 days
45		Relacje	4 hours	mine	01/03/21 1...	01/03/21 10:00	50%	02/03/2...		44	Fixed Units	Robert G.	0 days
46		**Implementacja systemu**	**109 hours**		**03/03/21 ...**		**4 %**	**22/04/...**			**Fixed Units**		**0 days**
47		Implementacja Bazy danych	4 hours	mine	03/03/21 0...		0%	04/03/2...		45	Fixed Work	Robert G.	0 days
48		**Przygotowanie IDE**	**4 hours**		**04/03/21 ...**		**100 %**	**05/03/...**	**05/03/21 18:00**		**Fixed Units**		**0 days**
49		Konfiguracja IDE dla aplikacji webowej	2 hours	mine	04/03/21 0...	04/03/21 09:00	100%	04/03/2...	04/03/21 19:00	47	Fixed Work	Robert G.	0 days
50		Konfiguracja IDE dla aplikacji mobilnej	2 hours	mine	05/03/21 0...	05/03/21 08:00	100%	05/03/2...	05/03/21 18:00	49	Fixed Work	Robert G.	0 days
51		**Implementacja moduów systemu**	**95 hours**		**05/03/21 ...**		**0 %**	**20/04/...**			**Fixed Units**		**0 days**
52		**Implementacja moduów Back-...**	**81 hours**		**05/03/21 ...**		**0 %**	**13/04/...**			**Fixed Units**		**0 days**
53		**Obsuga konta uytkownika**	**14 hours**		**05/03/21 ...**		**0 %**	**12/03/...**			**Fixed Units**		**0 days**
54		Logowanie	4 hours	mine	05/03/21 1...		0%	08/03/2...		50	Fixed Work	Robert G.	0 days
55		Rejestracja	4 hours	mine	09/03/21 0...		0%	10/03/2...		54	Fixed Work	Robert G.	0 days
56		Usuwanie konta	2 hours	mine	10/03/21 0...		0%	10/03/2...		55	Fixed Work	Robert G.	0 days
57		Obsuga zespodw uczniów - klas	4 hours	mine	11/03/21 0...		0%	12/03/2...		56	Fixed Work	Robert G.	0 days
58		**Import danych**	**7 hours**		**12/03/21 ...**		**0 %**	**16/03/...**			**Fixed Units**		**0 days**
59		Import masowy	4 hours	mine	12/03/21 0...		0%	15/03/2...		57	Fixed Work	Robert G.	0 days
60		Import jednostkowy	3 hours	mine	15/03/21 1...		0%	16/03/2...		59	Fixed Work	Robert G.	0 days
61		Poczenie z baz danych	2 hours	mine	16/03/21 1...		0%	17/03/2...		60	Fixed Work	Robert G.	0 days
62		**Zarzdzanie uczniami**	**23 hours**		**17/03/21 ...**		**0 %**	**26/03/...**			**Fixed Units**		**0 days**
63		Zarzdzanie skadem klasy	4 hours	mine	17/03/21 0...		0%	18/03/2...		61	Fixed Work	Robert G.	0 days
64		Przydzielenie zestawów lekcyjnych	3 hours	mine	18/03/21 1...		0%	19/03/2...		63	Fixed Work	Robert G.	0 days
65		kontrola postpów	4 hours	mine	19/03/21 1...		0%	22/03/2...		64	Fixed Work	Robert G.	0 days
66		Przeprowadzanie testów zprawd...	8 hours	mine	23/03/21 0...		0%	25/03/2...		65	Fixed Work	Robert G.	0 days
67		Kontakt z uczniem	4 hours	mine	25/03/21 1...		0%	26/03/2...		66	Fixed Work	Robert G.	0 days
68		**Implementacja algorytmów**	**8 hours**		**29/03/21 ...**		**0 %**	**31/03/...**			**Fixed Units**		**0 days**
69		Implementacja algorytmu selekcj...	4 hours	mine	29/03/21 0...		0%	30/03/2...		67	Fixed Work	Robert G.	0 days
70		Implementacja algorytmu powtórze	4 hours	mine	30/03/21 0...		0%	31/03/2...		69	Fixed Work	Robert G.	0 days
71		**Faza nauki**	**10 hours**		**31/03/21 ...**		**0 %**	**05/04/...**			**Fixed Work**		**0 days**
72		Prezentacja materiau	4 hours	mine	31/03/21 1...		0%	01/04/2...		70	Fixed Work	Robert G.	0 days
73		Procesu oparowania pamickiowego	4 hours	mine	02/04/21 0...		0%	05/04/2...		72	Fixed Work	Robert G.	0 days
74		Proces przeaczenia	2 hours	mine	05/04/21 0...		0%	05/04/2...		73	Fixed Work	Robert G.	0 days
75		Faza powtórki	3 hours	mine	06/04/21 0...		0%	08/04/2...		74	Fixed Work	Robert G.	0 days
76		Statystyki	8 hours	mine	07/04/21 0...		0%	09/04/2...		75	Fixed Work	Robert G.	0 days
77		Eksport danych	3 hours	mine	09/04/21 1...		0%	12/04/2...		76	Fixed Work	Robert G.	0 days
78		Routing	3 hours	mine	12/04/21 1...		0%	13/04/2...		77	Fixed Work	Robert G.	0 days
79		Bezpieczestwo	8 hours	mine	13/04/21 1...		0%	16/04/2...		78	Fixed Work	Robert G.	0 days
80		**Implementacja moduów Front...**	**6 hours**		**16/04/21 ...**		**0 %**	**20/04/...**			**Fixed Units**		**0 days**
81		Szablony widoków	6 hours	mine	16/04/21 0...		0%	20/04/2...		79	Fixed Work	Robert G.	0 days
82		**Wdroenie systemu**	**6 hours**		**20/04/21 ...**		**0 %**	**22/04/...**			**Fixed Units**		**0 days**
83		Wybór hostingu	2 hours	mine	20/04/21 0...		0%	20/04/2...		81	Fixed Work	Robert G.	0 days
84		Konfiguracja bazy danych	2 hours	mine	21/04/21 0...		0%	21/04/2...		83	Fixed Work	Robert G.	0 days
85		Przeniesienie danych	2 hours	mine	21/04/21 1...		0%	22/04/2...		84	Fixed Work	Robert G.	0 days
86		**Testowanie systemu**	**30 hours**		**22/04/21 ...**		**0 %**	**06/05/...**			**Fixed Units**		**0 days**
87		Testy funkcjonalne	10 hours	mine	22/04/21 0...		0%	27/04/2...		85	Fixed Work	Robert G.	0 days
88		Testy integracyjne	6 hours	mine	27/04/21 1...		0%	29/04/2...		87	Fixed Work	Robert G.	0 days
89		Testy akceptacyjne	2 hours	mine	29/04/21 1...		0%	30/04/2...		88	Fixed Work	Robert G.	0 days
90		Testy zabezpieczeo	6 hours	mine	30/04/21 0...		0%	04/05/2...		89	Fixed Work	Robert G.	0 days
91		Wprowadzanie poprawek	6 hours	mine	04/05/21 0...		0%	06/05/2...		90	Fixed Work	Robert G.	0 days
92		**Wnioski**	**5 hours**	**mine**	**13/05/21 ...**		**0 %**	**17/05/...**			**Fixed Work**		**0 days**
93		Odniesienie do tematu pracy	2 hours	mine	13/05/21 1...		0%	14/05/2...		91,9	Fixed Work	Robert G.	0 days
94		**Ocena biecego stanu systemu**	**2 hours**	**mine**	**14/05/21 ...**		**0 %**	**14/05/...**			**Fixed Work**		**0 days**
95		Analiza zrealizowanych funkcjonalnoci	1 hour	mine	14/05/21 0...		0%	14/05/2...		93	Fixed Work	Robert G.	0 days
96		Analiza funkcjonalnoci niezrealizow...	1 hour	mine	14/05/21 1...		0%	14/05/2...		95	Fixed Work	Robert G.	0 days
97		Kierunki dalszego rozwoju systemu	1 hour	mine	17/05/21 0...		0%	17/05/2...		96	Fixed Work	Robert G.	0 days
98		**Zaczniki**	**29 hours**		**17/05/21 ...**		**0 %**	**28/05/...**			**Fixed Work**		**0 days**
99		Bibliografia	1 hour	mine	17/05/21 0...		0%	17/05/2...		97	Fixed Work	Robert G.	0 days
100		Specyfikacja wymaga	2 hours	mine	17/05/21 1...		0%	18/05/2...		99,95	Fixed Work	Robert G.	0 days
101		Dokumentacja systemu	8 hours	mine	18/05/21 0...		0%	20/05/2...		100	Fixed Work	Robert G.	0 days
102		Dokumentacja wdroeniowa	4 hours	mine	21/05/21 0...		0%	24/05/2...		101	Fixed Work	Robert G.	0 days
103		Dokumentacja powdroeniowa	4 hours	mine	24/05/21 0...		0%	25/05/2...		102	Fixed Work	Robert G.	0 days
104		**Istrukcja uytkowania**	**10 hours**		**25/05/21 ...**		**0 %**	**28/05/...**			**Fixed Work**		**0 days**
105		Instrukcja ucznia	6 hours	mine	25/05/21 1...		0%	27/05/2...		103	Fixed Work	Robert G.	0 days
106		Instrukcja nauczyciela	2 hours	mine	27/05/21 1...		0%	28/05/2...		105	Fixed Work	Robert G.	0 days



		Name	Work	Task...	Start	Actual Start	Percent ...	Finish	Actual Finish	Predecessors	Type	Resource Names	Free Slack
107		Oddanie pracy dyplomowej	2 hours	mine	28/05/21 0...		0%	28/05/2...		106	Fixed Units		0 days