	Name	Work	Task..	Start	Actual Start	Percent	Finish	Actual Finish	Predecessors	Type	Resource Names	Free Slack
1	**Projekt Programu Powtórkowego**	326.2 ho...		20/01/21		50%	22/06/...			Fixed Units		0 days
2	**Prace przygotowawcze**	36 hours		20/01/21		54%	07/06/...			Fixed Work		0 days
3	**Przygotowanie do pisania pracy**	16 hours		31/05/21		0%	07/06/...			Fixed Work		0 days
4	Konfiguracja LaTeX Overleaf	2 hours	mine	31/05/21 0...		0%	31/05/2...		91	Fixed Units		0 days
5	Przygotowanie szablonu LaTeX	2 hours	mine	01/06/21 0...		0%	01/06/2...		4	Fixed Work	Robert G.	0 days
6	Przygotowanie strony tytułowej	2 hours	mine	01/06/21 1...		0%	02/06/2...		5	Fixed Work	Robert G.	0 days
7	Przygotowanie spisu treci	4 hours	mine	02/06/21 0...		0%	03/06/2...		6	Fixed Work	Robert G.	0 days
8	Abstract	4 hours	mine	03/06/21 1...		0%	04/06/2...		7	Fixed Work	Robert G.	0 days
9	Abstract po angielsku	2 hours	mine	07/06/21 0...		0%	07/06/2...		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		3.667 days
11	**Raport o istniejących systemach**	6 hours		25/01/21 ...		100%	26/01/...	26/01/21 19:00		Fixed Work		3.667 days
12	Lista istniejących 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 istniejących ...**	5 hours		25/01/21 ...		100%	26/01/...	26/01/21 19:00		Fixed Work		3.667 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	**Przegląd literatury o nauczaniu ...**	9 hours		20/01/21 ...		100%	22/01/...	22/01/21 19:00		Fixed Work		3.667 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 19:00		Fixed Work	Robert G.	0 days
19	Lektura wytypowanych opracowań	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 op...	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	**Przegląd technologii**	5 hours		18/02/21 ...		100%	19/02/...	19/02/21 18:00		Fixed Work		-1.333 days
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.	-1.333 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.	-1.333 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.	-1.333 days
27	**Projekt architektury systemu**	68.2 hours		27/01/21 ...		100%	05/03/...	05/03/21 18:00		Fixed Units		77.333 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.	107.667 days
29	**Opracowanie algorytmów systemu**	8 hours		01/02/21 ...		100%	03/02/...	03/02/21 18:00		Fixed Units		-0.333 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.	-0.333 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.	-0.333 days
32	**Specyfikacja wymaga**	13.2 hours		04/02/21 ...		100%	11/02/...	11/02/21 18:00		Fixed Units		-1.333 days
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.	-1.333 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.	-1.333 days
35	**Projekt interfejsu uytkownika**	13 hours		11/02/21 ...		100%	17/02/...	17/02/21 19:00		Fixed Work		-1.333 days
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.	-1.333 days
37	Projekty poszczególnych 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.	-1.333 days
38	**Wybór technologii**	4 hours		19/02/21 ...		100%	22/02/...	22/02/21 19:00		Fixed Units		-1.333 days
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.	-1.333 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.	-1.333 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.	-1.333 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.	-1.333 days
43	**Model bazy danych**	29 hours		24/02/21 ...		100%	05/03/...	05/03/21 18:00		Fixed Units		-2.333 days
44	Diagramy ERD	17 hours	mine	24/02/21 0...	24/02/21 08:00	100%	01/03/2...	01/03/21 18:00	42	Fixed Work	Robert G.	-2.333 days
45	Relacje	12 hours	mine	01/03/21 1...	01/03/21 10:00	100%	05/03/2...	05/03/21 18:00	44	Fixed Units	Robert G.	-2.333 days
46	**Implementacja systemu**	158 hours		05/03/21 ...		48%	17/05/...			Fixed Units		0 days
47	Implementacja Bazy danych	15 hours	mine	05/03/21 1...	05/03/21 10:00	100%	12/03/2...	12/03/21 18:00	45	Fixed Work	Robert G.	-2.333 days
48	**Przygotowanie IDE**	4 hours		12/03/21 ...		100%	15/03/...	15/03/21 19:00		Fixed Units		-2.333 days
49	Konfiguracja IDE dla aplikacji webowej	2 hours	mine	12/03/21 1...	12/03/21 10:00	100%	15/03/2...	15/03/21 09:00	47	Fixed Work	Robert G.	-2.333 days
50	Konfiguracja IDE dla aplikacji mobilnej	2 hours	mine	15/03/21 0...	15/03/21 09:00	100%	15/03/2...	15/03/21 19:00	49	Fixed Work	Robert G.	-2.333 days
51	**Implementacja moduów systemu**	133 hours		16/03/21 ...		43%	17/05/...			Fixed Units		0 days
52	**Implementacja moduów Back-...**	119 hours		16/03/21 ...		48%	06/05/...			Fixed Units		0 days
53	**Obsuga konta uytkownika**	47 hours		16/03/21 ...		100%	02/04/...	02/04/21 18:00		Fixed Units		0 days
54	Rejestracja	11 hours	mine	16/03/21 0...	16/03/21 08:00	100%	19/03/2...	19/03/21 18:00	50	Fixed Work	Robert G.	-2.333 days
55	Logowanie	15 hours	mine	17/03/21 0...	17/03/21 09:00	100%	24/03/2...	24/03/21 18:00	54	Fixed Work	Robert G.	0 days
56	Usuwanie konta	9 hours	mine	24/03/21 0...	24/03/21 10:00	100%	29/03/2...	29/03/21 18:00	55	Fixed Work	Robert G.	0 days
57	Obsuga zespoów uczniów - klas	12 hours	mine	29/03/21 1...	29/03/21 10:00	100%	02/04/2...	02/04/21 18:00	56	Fixed Work	Robert G.	0 days
58	**Import danych**	12 hours		02/04/21 ...		75%	08/04/...			Fixed Units		0 days
59	Import jednostkowy	9 hours	mine	02/04/21 1...	02/04/21 10:00	100%	07/04/...	07/04/21 18:00	57	Fixed Work	Robert G.	0 days
60	Import masowy	3 hours	mine	07/04/21 1...		0%	08/04/2...		59	Fixed Work	Robert G.	0 days
61	Poczenie z baz danych	2 hours	mine	08/04/21 1...		0%	09/04/2...		60	Fixed Work	Robert G.	0 days
62	**Zarzdzanie uczniami**	23 hours		09/04/21 ...		0%	20/04/...			Fixed Units		0 days
63	Zarzdzanie skadem klasy	4 hours	mine	09/04/21 0...		0%	12/04/2...		61	Fixed Work	Robert G.	0 days
64	Przydzielenie zestawów lekcyjnych	3 hours	mine	12/04/21 0...		0%	13/04/2...		63	Fixed Work	Robert G.	0 days
65	kontrola postpów	4 hours	mine	13/04/21 1...		0%	14/04/2...		64	Fixed Work	Robert G.	0 days
66	Przeprowadzanie testów zprzed...	8 hours	mine	15/04/21 0...		0%	19/04/2...		65	Fixed Work	Robert G.	0 days
67	Kontakt z uczniem	4 hours	mine	19/04/21 1...		0%	20/04/2...		66	Fixed Work	Robert G.	0 days
68	**Implementacja algorytmów**	8 hours		21/04/21 ...		0%	23/04/...			Fixed Units		0 days
69	Implementacja algorytmu selekcji	4 hours	mine	21/04/21 0...		0%	22/04/2...		67	Fixed Work	Robert G.	0 days
70	Implementacja algorytmu powtórek	4 hours	mine	22/04/21 0...		0%	23/04/2...		69	Fixed Work	Robert G.	0 days
71	**Faza nauki**	10 hours		23/04/21 ...		0%	28/04/...			Fixed Work		0 days
72	Prezentacja materiau	4 hours	mine	23/04/21 1...		0%	26/04/2...		70	Fixed Work	Robert G.	0 days
73	Proces opanowania pamiciowego	4 hours	mine	27/04/21 0...		0%	28/04/2...		72	Fixed Work	Robert G.	0 days
74	Proces przuczenia	2 hours	mine	28/04/21 0...		0%	28/04/2...		73	Fixed Work	Robert G.	0 days
75	Faza powtórki	3 hours	mine	29/04/21 0...		0%	29/04/2...		74	Fixed Work	Robert G.	0 days
76	Statystyki	8 hours	mine	30/04/21 0...		0%	04/05/2...		75	Fixed Work	Robert G.	0 days
77	Eksport danych	3 hours	mine	04/05/21 1...		0%	05/05/2...		76	Fixed Work	Robert G.	0 days
78	Routing	3 hours	mine	05/05/21 1...		0%	06/05/2...		77	Fixed Work	Robert G.	0 days
79	Bezpieczestwo	8 hours	mine	06/05/21 1...		0%	11/05/2...		78	Fixed Work	Robert G.	0 days
80	**Implementacja moduów Front...**	6 hours		11/05/21 ...		0%	13/05/...			Fixed Units		0 days
81	Szablony widoków	6 hours	mine	11/05/21 0...		0%	13/05/2...		79	Fixed Work	Robert G.	0 days
82	**Wdroenie systemu**	6 hours		13/05/21 ...		0%	17/05/...			Fixed Units		0 days
83	Wybór hostingu	2 hours	mine	13/05/21 0...		0%	13/05/2...		81	Fixed Work	Robert G.	0 days
84	Konfiguracja bazy danych	2 hours	mine	14/05/21 0...		0%	14/05/2...		83	Fixed Work	Robert G.	0 days
85	Przeniesienie danych	2 hours	mine	14/05/21 1...		0%	17/05/2...		84	Fixed Work	Robert G.	0 days
86	**Testowanie systemu**	30 hours		17/05/21 ...		0%	31/05/...			Fixed Units		0 days
87	Testy funkcjonalne	10 hours	mine	17/05/21 0...		0%	20/05/2...		85	Fixed Work	Robert G.	0 days
88	Testy integracyjne	6 hours	mine	20/05/21 1...		0%	24/05/2...		87	Fixed Work	Robert G.	0 days
89	Testy akceptacyjne	2 hours	mine	24/05/21 1...		0%	25/05/2...		88	Fixed Work	Robert G.	0 days
90	Testy zabezpiecze	6 hours	mine	25/05/21 0...		0%	27/05/2...		89	Fixed Work	Robert G.	0 days
91	Wprowadzanie poprawek	6 hours	mine	27/05/21 0...		0%	31/05/2...		90	Fixed Work	Robert G.	0 days
92	**Wnioski**	5 hours	mine	07/06/21 ...		0%	09/06/...			Fixed Units		0 days
93	Odniesienie do tematu pracy	2 hours	mine	07/06/21 1...		0%	08/06/2...		91;9	Fixed Work	Robert G.	0 days
94	**Ocena biecego stanu systemu**	2 hours	mine	08/06/21 ...		0%	08/06/...			Fixed Work		0 days
95	Analiza zrealizowanych funkcjonalno...	1 hour	mine	08/06/21 0...		0%	08/06/2...		93	Fixed Work	Robert G.	0 days
96	Analiza funkcjonalnoci niezrealizowa...	1 hour	mine	08/06/21 1...		0%	08/06/2...		95	Fixed Work	Robert G.	0 days
97	Kierunki dalszego rozwoju systemu	1 hour	mine	09/06/21 0...		0%	09/06/2...		96	Fixed Work	Robert G.	0 days
98	**Zaczniki**	29 hours		09/06/21 ...		0%	22/06/...			Fixed Work		0 days
99	Bibliografia	1 hour	mine	09/06/21 0...		0%	09/06/2...		97	Fixed Work	Robert G.	0 days
100	Specyfikacja wymaga	2 hours	mine	09/06/21 1...		0%	10/06/2...		99;95	Fixed Work	Robert G.	0 days
101	Dokumentacja systemu	8 hours	mine	10/06/21 0...		0%	14/06/2...		100	Fixed Work	Robert G.	0 days
102	Dokumentacja wdroeniowa	4 hours	mine	15/06/21 0...		0%	16/06/2...		101	Fixed Work	Robert G.	0 days
103	Dokumentacja powdroeniowa	4 hours	mine	16/06/21 0...		0%	17/06/2...		102	Fixed Work	Robert G.	0 days
104	**Istrukcja uytkowania**	10 hours		17/06/21 ...		0%	22/06/...			Fixed Work		0 days
105	Instrukcja ucznia	6 hours	mine	17/06/21 1...		0%	21/06/2...		103	Fixed Work	Robert G.	0 days
106	Instrukcja nauczyciela	2 hours	mine	21/06/21 1...		0%	22/06/2...		105	Fixed Work	Robert G.	0 days

ID		Name	Work	Task...	Start	Actual Start	Percent...	Finish	Actual Finish	Predecessors	Type	Resource Names	Free Slack
107		Oddanie pracy dyplomowej	2 hours	mins	22/06/21 0...		0%	22/06/2...		106	Fixed Units		0 days