I.   Results and Discussion

Faculty Load

The project developer has established the proposed system based on the algorithm and scope and limitations, using HTML, CSS, and PHP programming languages.

Match!

Save

Load

Faculty ID	Faculty First Name	Faculty Middle Name	Faculty Last Name	Full-time/Part-time	Specialization	OTE	Subject ID	Subject Name	Subject Description	Unit	Year	Term	M-TH	T-F	Start Time	End Time
6	Gabrielle		Lazaro	full-time	Computer Engineering	6	7	COMPORG	Computer Organization	3	2016	2	n	y	01:30	03:30
7	Jameiah		Jauod	full-time	Database Systems	7	4	DATAMA1	Database Management 1	3	2016	2	n	y	11:30	01:30
7	Jameiah		Jauod	full-time	Database Systems	7	10	DATAMA2	Data Management 2	3	2016	2	y	n	03:30	5:30
8	Von	Sogocio	Alfafara	part-time	Software Engineering	4	2	INPROLA	Introduction to Programming Languages	3	2016	2	n	y	09:30	11:30
8	Von	Sogocio	Alfafara	part-time	Software Engineering	4	6	PROGCON	Programming Concepts	3	2016	2	y	n	07:30	09:30
8	Von	Sogocio	Alfafara	part-time	Software Engineering	4	9	DASTRUC	Data Structures	3	2016	2	n	y	01:30	3:30
9	Rafael		Ochotorena	part-time	Computer Networks	5	3	DATACOM	Data Communications	3	2016	2	y	n	07:30	09:30
10	Allen		Baldovino	part-time	System Analyst	8	1	SYSADD1	System Analysis and Design	3	2016	2	n	y	09:30	11:30
10	Allen		Baldovino	part-time	System Analyst	8	5	INSTDEV	Introduction to Systems and Design	3	2016	2	y	n	11:30	01:30
10	Allen		Baldovino	part-time	System Analyst	8	8	OPESYS1	Operating Systems 1	3	2016	2	y	n	03:30	05:30

The above image shows the result of matching the sample values of the faculty and the subject table based on specialization and availability. The array for the values of the faculty table is sorted by the employee type which are full-time and part-time, wherein all full-time faculty are first stored in the array followed by the part-time faculty. Availability is assumed to be the duration of the class, and each faculty member is available anytime they do not teach a subject at a particular time. Specialization is matched throw a separate table, Specialization wherein both faculty and subject table's specialization field is matched with the id of the said table.

Power BI

	A	B	C	D	E	F
1	Professor	Specialization	History	Ote	Weighted Average	Subject
2	Noel Anonas	36	21	0.55	58	Entjava
3	Allan Cotecson	33	16.5	0.38	50	Sysadd1
4	Jacob Catayoc	36	21	0.38	57	Sysadd2
5	Ernesto Boydon	54	27	0.28	81	Advweb1
6	Rhea-Luz Valbuena	36.6	21	0.15	58	Quality

The image above shows the result of the algorithm. The spreadsheet have three criteria to compute which are: specialization, history, OTE, and the weighted average of each faculty to that subject. They used the Microsoft Excel for the computation of the percentage for the analytic to be imported to Power Bi.