A comparison of similar papers that solve the university timetabling problem.

Characteristics	MirHassani [2]	Dimopoulou and Miliotis [9]	Philips et al. [11]	Oladejo et al. [12]	Aladag and Hocaoglu [13]	Abuhamdah and Ayob [14]	Lu and Hao [15]	Abdullah et al. [19]	Chen and Shih [20]	Bolaji et al. [21]	Di Gaspero and Shaerf [25]	Qu and Burke [26]	Veenstra and Vis [27]	Lemos et al. [28]	Our work
Course timetabling	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Professor assignment	✓	✓	_	_	✓	_	_	_	_	_	_	_	1	_	✓
Schedule Classroom/	✓	✓	✓	_	1	✓	✓	1	✓	✓	✓	✓	✓	_	✓
space assignment	_	✓	1	✓	✓	✓	✓	✓	✓	✓	✓	1	✓	1	_
Department level	_	✓	_	_	✓	_	_	_	_	_	✓	_	_	✓	✓
Institutional level	✓	✓	✓	✓	_	_	_	_	_	_	_	_	✓	_	_
Exact method	✓	✓	✓	✓	_		_	_			_	_	✓	✓	✓
Nonexact method	-	✓	_	_	✓	✓	✓	✓	√	✓	✓	√	√	√	