CB576 Special Topics In Railway

COURSE INFORMATION

	Academic	Year & Level	Теа			
Prerequisites	Year	Semester	Lecture	Tutorial	Laborator y	Credit Hrs.
CB472	5	9-10	2	2	0	3

COURSE AIM

The course aims at introducing the student to the fundamentals of Railway planning and design and their relation to the field of transportation.

COURSE WEEKLY CONTENTS

Basic components of passenger and freight trains, tractive force, movement

Midterm Exam

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- resistance
- 2 Acceleration and braking.
- **3** Basic principles of track alignment
- 4 Design of horizontal and vertical curve..
- 5 Basic components track elements, jointed and welded rail design.
- 6 Sleeper and ballast design.
- **7** Railway turnouts.
- 8 Alignment of passenger and freight stations.
- 9 Locomotive and stabling yard, Sorting and marshalling yards
- **10** Railway signaling.
- **11** Train traffic management
- 12 Railway capacity. 12th Week Assessment
- 13 Railway cost , Price and subsidy
- 14 Railway renewal and maintenance management
- **15** Track construction equipments

STUDENT GRADING & ASSESSMENT

Weeks	Exams		Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20	Midterm	← To	1 (be freely distril	D MAR puted among p	ккs possible assessn	→ nents	30
8 to 12	←			2 () MAF	RKS	\rightarrow	20
13 to 15	÷			1 () MAF	RKS	\rightarrow	10
16 or 17	40	Final						40
Total		Exams	Assign.	Quizzes	Reports	Present.	Lab.	100

REFERENCES

Textbook	Modern Railway Track, Coenraad Esveld, MRT-production, 2nd Edition, 2001.
Other	Standard Handbook for Civil Engineers, F.S.Merritt, McGraw Hill book NY,
	1983.
	Railway Engineering, Hemeda and Salem, Alexandria University, 2002.