EEE/ECE/ENI DEL Reviews Sem-1 2020-21

1.Digital Communication (Naveen Gupta)

The course will be intensive in terms of evaluation
Like expect 3 announced quizzes, 3 surprised quizzes and a project minimum
But if you attend all classes, his exams are pretty straightforward and easy
So decide whether it's worth the effort

2.Modern Communication Technologies (Naveen Gupta)

The course will be intensive in terms of evaluation
Like expect 3 announced quizzes, 3 surprised quizzes and a project minimum
But if you attend all classes, his exams are pretty straightforward and easy
So decide whether it's worth the effort
Easy course. Naveen builds on the concepts taught in CommSys, though he doesn't mind teaching them for students who are currently doing CommSys. Assignments are MATLAB based. Grading is good, average is usually pretty high.
Content: Modulation schemes, information coding techniques, channel models, bit error rate calculations, etc.
Not a very useful course for ECE students, as the content is covered in CommSys and ITC.

3.Modern Control Systems (Rakesh Warrier)

- easy course content if you know v basic concepts of consys
- never miss tut and lectures questions because they will be similar in exams, there is low scope of distorting the questions
- basic assignments and projects but they are pretty easy almost everyone gets full

- surprise quiz component (2 mostly)
- The grading last year was pretty nice, better than our usual EEE courses

But this was taken by manju last time, I am not sure what the new teacher would be like

4.Mobile Telecom Networks (Nitin Sharma)

 Don't take MTN if you want to learn anything from that subject. Just do comm sys instead
 If Nitin Sharma is taking it
 But MTN he does cover cellular networks which was pretty interesting..
 Everything after that is haywire
 Just a chapter or two
Not worth taking the course for that
 Especially when you are not taking comm sys
The starting part covers mobile communication WHICH IS INTERESTING but the latter 80% is pretty much same as that of Comm. Sys.

5.Medical Instrumentation (Noel)

MedI best elective for ppl who like analog,
 And lite in general too
med-I is okayish, but thodi medical theory yaad karni padegi along with the electronic content,

6.Digital Image Processing (Ashish Chittora)

And I haven't taken DIP myself but I've heard the teacher and the course content is not that good. You'll have to study yourself. The course looks good on your transcript, and the project looks good on your CV if you're into the field

From what I have heard, it is not conducted well in BITS. But topics such as convolutions, gaussian kernels, Laplacian of Gaussians, Edge detection, downsampling, linear transformations, etc. are core concepts of computer vision

DIP: highly recommend if one plans to do a CS thesis in EEE. Also Chitora is a very nice person.
 Yes. Amazing course. Irrespective of how good he is. Evaluation is lite and not very tough. Maza ayega to learn
The stress on matlab is comparitively high when you look at other courses so you end up learning a good chunk of it

Prof is a bit bland but the MATLAB part makes up for it. Evaluative components are predictable (recycles old Q's/TB Qs)
 He is stingy with his As tho
Dip is very lite when you compare it to DSP
He also increases marks 90 percent of the time you ask for them in midsems/compre

That's literally the only hack to go a cs thesis, Unless you can also convince it's about control systems (talking mostly about those in machine learning)

7.Satellite Communication (MK Deshmukh)

 Avoid MK Deshmukh
Horrible prof, gives random fact based quizzes, grading sucks
Satcomm till last yr was taken by sonalikar and was a lite course.
Srs said extend ur degree by a sem, but never take deshmukh

5.) Digital Signal Processing

DSP is really good according to me. I liked it because of the math and calculations. First half is pretty tough, second is a repetition of the first half. There are labs and a project.

But I'm not sure how it would work out in online learning. Sarang sir is one of the best teachers I've met

8.Wind Electrical System (MK Deshmukh)

 Avoid MK Deshmukh
Horrible prof, gives random fact based quizzes, grading sucks
Satcomm till last yr was taken by sonalikar and was a lite course.
Srs said extend ur degree by a sem, but never take deshmukh

9.Embedded System Design (Anupama)

ESD is a very helpful course. Anupama takes it very well imo. She talks about both software and hardware design. There are few labs where you have to use atmel and arm based controller. In the final project you can use whatever you want (ESD lab also has Snapdragon's embedded processor).

MuP is a pre-req for this course. If you're interested in embedded systems or computer architecture then definitely take this course.

: Coming to ESD, it is a course which has a huge syllabus (according to me).

It starts with what is an Embedded system, it's major components, and some techniques being used in modern processors (Register Windowing, Pipelined Processors, Data Hazards in Pipeline, Superscalar Architecture).

This is followed by ARM Processors, in which you'll be majorly focusing on ARM Cortex 7 processor - Assembly coding, different Modes, Interrupts. Next, the course covered various communication protocols like UART, SPI, I2C and CAN.

The course finally concluded with Cache Memory and basics of Real Time Operating Systems.

Coming to labs, you'll be mainly covering the things taught in the lectures (Assembly Coding, Interfacing Microcontrollers with peripherals that use SPI/UART/etc.), and so won't be a major challenge. The project, on the other hand, was very difficult - as you had to choose and design a complete embedded system (in a team of 6). Midsems was Okayish, compre was quite difficult.

Coming to the teaching, Meetha ma'am is an amazing teacher, was quite approachable for doubts. But, at times I felt that her speed was too much for me.

Grading was okayish. Av+20 fetched an A-

Note: This is a ME course, and you can do only 2 ME courses. So think twice before taking this course, as there are many other interesting ME courses as well.