01 October 2018

Dear MSc Student

Welcome and congratulations on obtaining a place in the Department of Electrical and Electronic Engineering at Imperial College. I join all my colleagues in wishing you every success in your studies over the coming year.

The information attached is intended to give you a rough idea of what to expect during your studies here: the lecture programme and assessment criteria of the MSc programme that you will be expected to follow; information on the resources available to help you to achieve your objectives; and a description of our responsibilities to you as the provider of resources and academic supervision. There is also a section on the welfare and pastoral support services that you can turn to in the event of personal or academic difficulty.

There will be an opportunity to discuss this in more detail with your Course Director this week and also at an individual interview to be arranged for you later in the term with your Personal Tutor. In the meantime, may I welcome you to what I hope you will find is a supportive and thriving research community.

Yours sincerely

[Signature]

Professor Eric Yeatman
Head of Department
The Graduate School has several roles but our main functions are to provide a broad, effective and innovative range of professional development workshops and to facilitate interdisciplinary interactions by providing opportunity for students to meet at academic and social events. Whether you wish to pursue a career in academia, industry or something else, professional skills development training will improve your personal impact and will help you to become a productive and successful researcher.

Professional development courses for Master’s students are called “Masterclasses” and they cover a range of themes, for example, presentation skills, academic writing and leadership skills (http://www.imperial.ac.uk/study/pg/graduate-school/professional-skills/masters/). All Masterclasses are free of charge to Imperial Master’s students and I would encourage you to take as many as you can to supplement your academic training. The Graduate School works closely with the Graduate Students’ Union (GSU) and is keen to respond to student needs so if there is an area of development training, or an activity that you would like us to offer, but which is not currently provided, please do get in touch (graduate.school@imperial.ac.uk).

The Graduate School also runs a number of exciting social events throughout the year which are an opportunity to broaden your knowledge as well as to meet other students and have fun. You should regularly check the Graduate School’s website and e-Newsletters to keep up to date with all the events and development opportunities available to you.

Finally, I hope that you enjoy your studies here at Imperial, and I wish you well.

Sue Gibson

Dr Janet De Wilde, Head of Postgraduate Professional Development

I would like to welcome you to the Graduate School programme for postgraduate professional development. Our team of tutors come from a wide variety of experiences and we understand just how important it is to develop professional skills whilst undertaking postgraduate studies and research. Not only will this development improve success during your time at Imperial College, but it will also prepare you for your future careers. We are continually working to
develop the courses we offer and over this year you will see a range of new courses including face-to-face workshops, interactive webinars and online self-paced courses. I encourage you to explore and engage with the diverse range of opportunities on offer from graduate school and I wish you well in your studies.

Janet De Wilde

Welcome from the Graduate Students’ Union (GSU)

I am delighted to welcome you to Imperial College! Let me introduce you to the Graduate Students’ Union (GSU). We are the representative body defending your interests as a postgraduate student in major decisions taken by the College. Beyond that, we work towards building a thriving postgraduate community that spans faculties and where students effectively communicate in an interdisciplinary way. Our committee is comprised of motivated postgraduate students like yourself, who have been appointed in university-wide elections and volunteer to make your experience at Imperial as fulfilling and enjoyable as possible.

So, what are we up to for this coming year 2018/19? We are going to focus on three major areas of action:

- Continue improving post-graduate well-being by increasing the quality of supervision and by creating strategies to tackle common mental health challenges in higher education.
- Develop the GSU to become central to the postgraduate community by improving the two-way flow of information, between the GSU and you.
- Organise exciting events around the topics of well-being, interdisciplinary research, and entrepreneurship.

As the GSU president, I would like to emphasise that Imperial College London is relying on its postgraduate students to maintain its position as a front-runner in world-class research and teaching. For us, the GSU, to be successful we need to receive as much of your input as possible. We want to work with you, for you!

Finally, I hope that you have a fantastic time here at Imperial and take advantage of the richness of opportunities that awaits you. If ever you have questions or ideas to share with us, please do not hesitate to get in touch with us and we are looking forward to seeing you at our events!

Ute Thiermann, GSU President 2018/19
gsu.president@imperial.ac.uk
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1. **MSc Communications and Signal Processing Programme**

This Handbook is designed to provide you with the key information that you need to know about the Communications and Signal Processing MSc Programme and the assessment process.

Further details about each aspect of the MSc Programme can be found in the [A – Z for current students](#).

2. **Key Dates for the Academic Year**

These are the official MSc term dates:

- **Autumn Term**: 29th September 2018 – 14th December 2018
- **Spring Term**: 5th January 2019 – 22nd March 2019
- **Summer Term**: 27th April 2019 – 28th June 2019

The compulsory Online Plagiarism Awareness Course for Master’s Students must be completed by **31st October 2018**.

**Examinations**: 1st May 2019 – 25th May 2019

The main work on your Individual Research Project will take place from late May 2018 to early September 2019 with the following submission deadlines:

- **Initial Project Report**: 14th March 2019 at 4:00 pm
- **Electronic version of Poster**: 29th August 2019 at 4:00 pm
- **Project Report (Soft-bound and electronic versions)**: 5th September 2019 at 4:00 pm
- **Poster Presentation**: 9th September 2019
- **Last official day of the MSc course 2018/2019**: 27th September 2019

3. **Penalty for Late Submission of Assessed Work**

There is a strict penalty for any piece of assessed work that is submitted after the deadline. Any assessed work submitted up to one day after the deadline will be capped at the passmark. Any work submitted more than one day late will be given a mark of zero. Please see [here](#) for more details about the penalty for late submission.
4. Departmental Postgraduate Administration

Prof. Eric Yeatman, Head of Department  
(e.yeatman@imperial.ac.uk) EEE Room 609

Prof. Andrew Holmes, Director of Postgraduate Studies  
(a.holmes@imperial.ac.uk) EEE Room 701

Andrew has overall administrative responsibility for the Department’s postgraduate affairs. He is responsible for ensuring that all College regulations are applied appropriately in the Department.

Dr. Imad Jaimoukha, Postgraduate Tutor  
(i.jaimoukha@imperial.ac.uk) EE Room 1113

Imad is responsible for the welfare and training of students. If you need to meet Imad to discuss any difficulties with your studies or if you have personal circumstances which are hindering your progress, please e-mail him to arrange an appointment.

Mr. Anderson Santos, Postgraduate Manager  
(a.santos@imperial.ac.uk) EEE Room 607

Anderson is always available to give advice on postgraduate matters and provide the required forms for Mitigating Circumstances, Interruption of Studies etc.
5. **MSc Communications & Signal Processing Administration**

**Dr Tania Stathaki** – MSc Communications and Signal Processing Course Director  
(t.stathaki@imperial.ac.uk)  
EEE Room 812  
020 759 46229

**Ms Melanie Albright** – MSc Communications and Signal Processing Course Administrator  
(m.albright@imperial.ac.uk)  
EEE Room 810, 020 759 46267

Melanie is available to give advice on all general MSc Communications and Signal Processing matters.

**Dr Cong Ling** – MSc Communications and Signal Processing Laboratory Organiser  
(c.ling@imperial.ac.uk)  
EEE Room 815  
020 759 46214

**Mr Paul Norman** – MSc Communications and Signal Processing Laboratory Technician  
(p.norman@imperial.ac.uk)  
EEE Room 303b, 020 759 46344

Paul manages the MSc Laboratory (Room 303) and should be contacted for any queries relating to the MSc Laboratory or MSc Study Room (Room 405).
Dr Javier Barria  
(j.barria@imperial.ac.uk)  
EEE Room 1012  
020 759 46275  
Course: Traffic Theory & Queuing Systems

Dr Wei Dai  
(wei.dai1@imperial.ac.uk)  
EEE Room 811  
020 759 46333  
Courses: Coding Theory, Topics in Large Dimensional Data Processing

Professor Pier Luigi Dragotti  
(p.dragotti@imperial.ac.uk)  
EEE Room 802  
020 759 46192  
Course: Wavelets and Applications

Dr. T-K Kim  
(Tk.kim@imperial.ac.uk)  
EEE Room: 1017  
020 759 46317  
Courses: Machine Learning for Computer Vision (joint with Dr Krystian Mikolajczyk), Pattern Recognition (joint with Dr Krystian Mikolajczyk)

Dr Cong Ling  
(c.ling@imperial.ac.uk)  
EEE Room 815  
020 759 46214  
Courses: Probability and Stochastic Processes, Information Theory
Professor Danilo Mandic  
(d.mandic@imperial.ac.uk)  
EEE Room 813  
020 759 46271  
Course: Adaptive Signal Processing and Machine Intelligence

Professor Athanassios Manikas  
(a.manikas@imperial.ac.uk)  
EEE Room 801  
020 759 46266  
Courses: Advanced Communication Theory, Communication Systems

Dr Krystian Mikolajczyk  
(k.mikolajczyk@imperial.ac.uk)  
EEE Room 1015  
020 759 46220  
Courses: Machine Learning for Computer Vision (joint with Dr T-K Kim), Pattern Recognition (joint with Dr T-K Kim)

Dr Patrick Naylor  
(p.naylor@imperial.ac.uk)  
EEE Room 803  
020 759 46234  
Courses: Speech Processing, Digital Signal Processing and Digital Filters (joint with Dr Tania Stathaki)

Dr Tania Stathaki  
(t.stathaki@imperial.ac.uk)  
EEE Room 812  
020 759 46229  
Courses: Digital Image Processing, Digital Signal Processing and Digital Filters (joint with Dr Patrick Naylor)
7. Where to find more information about the course

Imperial College London has a very comprehensive website with information about each aspect of the course, student life, and the resources, facilities and support available to you. Listed below are the key web pages that you may wish to visit.

a. Electrical and Electronic Engineering Current Students’ Course Handbook

The EEE Current Students’ Course Handbook webpages contain all of the important information that you will need to know throughout the course. The pages that you may find most useful are listed below:

- Assessment information
- Attendance and absence
- Blackboard: Log-In, Using Blackboard and Self-Enrol details
- Examinations
- Modules and programmes
- MSc individual research project
- Options registration
- Plagiarism awareness (cheating) and the Plagiarism Awareness online course
- Posters (MSc project)
- Postgraduate Staff/Student Committee
- Professional Skills Development - For MSc students, Graduate School
- Reading lists (MSc Courses)
- Academic and Examination Regulations
- Term dates
- Timetables

b. Electrical and Electronic Engineering New MSc Students website

The EEE New MSc Students webpage contains information to help you prepare for the start of your course and to help you settle in to the Department. It includes information
such as: Visas, Health and Vaccination Advice, Registration, Week 1 Information, Timetables, Resources, Student Information, Contacts and a Campus Map.

c. Imperial College London New Postgraduate Students website

The Imperial College London New Postgraduate Students webpages have sections that provide guidance and advice on ‘Arrivals and Induction’, ‘Fees and funding’ and ‘Making the most of your Imperial experience’ and ‘Living in London’.

8. Sources of Help

There is clear information online containing details of the support available to you at Imperial College London. Here is a list of some of the different places where you can seek support if you need help or advice on a variety of matters:

The Advice Centre (Imperial College Union) – Welfare and Confidential Advice
Careers/Career Planning (EEE Department) and the Careers Service
Chaplaincy
Disability Advisory Service
English Language Support (Centre for Academic English)
Exam Stress Workshops (Health Centre)
Fees, funding and finance
Imperial College Health Centre
Health, Safety and Security (EEE Department)
Special Examination Arrangements
Student Counselling and Mental Health Advice Service
Student Hub
Student Space (College student support)
Support for non-academic issues

You will be allocated a Personal Tutor soon after you join the MSc course. If you need help with any aspect of the lectures or coursework, speak to the lecturer after a lecture or state your problem in an email to the lecturer, asking for help. The lecturer may be able to provide help by responding with a short email. If it is clear that you need to speak to the lecturer, please arrange an appointment by email. It is better to show your work to the lecturer and ask where you have gone wrong than to meet with them without having tried to do the work. If you need more help, try asking your Personal Tutor or the Course Director.
9. Resources and Facilities

There are many resources available to you at Imperial College London. As an MSc student in the Department of Electrical and Electronic Engineering there is a dedicated MSc Study Room with computers for you to use. The MSc Study Room is in Room 405, on Level 4 of the EEE Department. This is a quiet study area, so please keep noise levels to a minimum.

There is also a dedicated MSc Laboratory with desk space and computers for you to use. The MSc Laboratory is in Room 303 (Level 3) and is managed by Mr Paul Norman.

The main computing facilities available are in the MSc study room (Room 405, EEE) and the MSc Laboratory (Room 303 EEE). You can access these rooms using your swipe card. There are more computers and quiet study areas in the EEE Departmental Study Area (on the 6th Floor of the EEE building) and in the Central Library.

Mobile phones
Mobile phones must be turned off while in any lecture theatre, teaching laboratory or library.

Noticeboards
You should consult the notice boards concerning your course regularly. The notice board is located in the MSc Lab, Room 303 on level 3.

Photocopying and printing facilities
Photocopying and printing facilities are available on Level 1 and Level 6 of the EEE building. You will need to load print credit on to your College ID Card and use this to print from the multi-functional devices available. You can add print credit to your College ID Card online or in the Central Library using cash.

10. Attendance Monitoring

Students are required by the general College regulations to attend regularly. All lecture rooms in our Department, including the MSc Laboratory (Room 303) and the computer room (Room 304), have card readers (pictured) installed by the doors on the inside of the rooms. You are required to ‘touch in’ on at least two different days per week, using any of the card readers. The card readers are
monitored on a regular basis.

The scanners to unlock the doors on the outside of the doors are part of a College wide system and do not record attendance.

If the card reader bleeps three times when you scan your card this means that your card details are not working. If the card reader bleeps three times please contact Daniel Harvey on d.harvey@imperial.ac.uk or 020 7594 6324.

11. Reporting Absences from College

Students must notify the EEE Department's Postgraduate Office, preferably by email to (a.santos@imperial.ac.uk) if they will be away from College for more than 3 days, with the exception of the official College Closures at Christmas and Easter. If your absence is due to illness you should produce a medical certificate after 7 days’ absence.

12. Compulsory, Optional & Unassessed Modules – How to Register

You will automatically be registered for the four compulsory modules (i.e. subjects) on the MSc. You will need to choose four or five optional modules on which to be examined from the available examinable options. The only constraint on your choice is that the modules must not have exam/lecture timetable clashes.

The pass/fail decision and degree classification are based on your four compulsory module marks and the best four module marks from your optional modules. In other words, if you are examined on four compulsory modules and four optional modules then all of these module marks will count. However, if you are examined on four compulsory modules and five optional modules, then the lowest module mark from your optional modules will be discarded.

Unassessed module – Communication Systems

There is an unassessed module on the MSc CSP course. The module is Communication Systems (Course Code: EE9-SU30) and it is taught by Professor Manikas in the Autumn Term. As it is unassessed, this means that this module does not carry any credits and does not count towards your degree. However, it is recommended that you attend the lectures and complete the coursework as it will provide you with a good understanding and foundation in the topic which will be very useful to you throughout the course.
How to register for your optional modules

MSc students are automatically registered for their four core modules and must select four or five optional modules. Please speak with your MSc administrator for full information. You can access the full list of modules on this page.

Students taking Autumn term modules (with any marked assessment in the Autumn term – e.g.: coursework and/or exams) must be confirmed by Friday of week 3 of Autumn Term.

All other Autumn modules (not assessed in any form in the Autumn) and all Spring term modules must be confirmed by Friday of week 3 of Spring Term. Registration should be made via the EEE Department options registration site.

### 13. List of Modules

#### Compulsory Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Lecturer</th>
<th>Coursework (%)</th>
<th>Term</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE9-SC1</td>
<td>Drs T. Stathaki and P. Naylor</td>
<td>0</td>
<td>Autumn</td>
<td>Digital Signal Processing and Digital Filters</td>
</tr>
<tr>
<td>EE9-SC2</td>
<td>Professor A. Manikas</td>
<td>15</td>
<td>Autumn</td>
<td>Advanced Communication Theory</td>
</tr>
<tr>
<td>EE9-SC3</td>
<td>Dr C. Ling</td>
<td>15</td>
<td>Autumn</td>
<td>Probability and Stochastic Processes</td>
</tr>
<tr>
<td>EE9-SC4</td>
<td>Professor D. P. Mandic</td>
<td>100</td>
<td>Spring</td>
<td>Adaptive Signal Processing and Machine Intelligence</td>
</tr>
<tr>
<td>EE9S-LAB</td>
<td>Dr C. Ling</td>
<td>100</td>
<td>Autumn</td>
<td>MSc CSP Laboratory</td>
</tr>
<tr>
<td>EE9S-PRJ</td>
<td></td>
<td>2 &amp; 3</td>
<td></td>
<td>MSc CSP Project</td>
</tr>
</tbody>
</table>
### Optional Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Lecturer</th>
<th>Course-work (%)</th>
<th>Term</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE9-SO7</td>
<td>Dr. J. A. Barria</td>
<td>0</td>
<td>Spring</td>
<td>Traffic Theory and Queuing Systems</td>
</tr>
<tr>
<td>EE9-SO9</td>
<td>Professor E. M. Yeatman</td>
<td>0</td>
<td>Autumn</td>
<td>Optical Communication</td>
</tr>
<tr>
<td>EE9-SO11</td>
<td>Dr. W. Dai</td>
<td>0</td>
<td>Autumn</td>
<td>Coding Theory</td>
</tr>
<tr>
<td>EE9-SO14</td>
<td>Dr. T. Stathaki</td>
<td>0</td>
<td>Autumn</td>
<td>Digital Image Processing</td>
</tr>
<tr>
<td>EE9-SO16</td>
<td>Dr. P. Naylor</td>
<td>0</td>
<td>Spring</td>
<td>Speech Processing</td>
</tr>
<tr>
<td>EE9-SO20</td>
<td>Dr. C. Ling</td>
<td>0</td>
<td>Spring</td>
<td>Information Theory</td>
</tr>
<tr>
<td>EE9-SO22</td>
<td>Professor P.L. Dragotti</td>
<td>25</td>
<td>Autumn</td>
<td>Wavelets and Applications</td>
</tr>
<tr>
<td>EE9-SO25</td>
<td>Dr. T-K Kim; Dr K Mikolajczyk</td>
<td>100</td>
<td>Spring</td>
<td>Machine Learning for Computer Vision</td>
</tr>
<tr>
<td>EE9-SO28</td>
<td>Dr. W. Dai</td>
<td>30</td>
<td>Autumn</td>
<td>Topics in Large Dimensional Data Processing</td>
</tr>
<tr>
<td>EE9-SO29</td>
<td>Dr. T-K Kim; Dr K Mikolajczyk</td>
<td>100</td>
<td>Autumn</td>
<td>Pattern Recognition</td>
</tr>
<tr>
<td>EE9-SU30</td>
<td>Professor A. Manikas</td>
<td></td>
<td>Autumn</td>
<td>Communications Systems (unassessed)</td>
</tr>
</tbody>
</table>

### 14. Lecture Programme and Examinations

**Overview**

The lecture programme provides a broad coverage of material on communications and signal processing. Most lectures are held in the EEE Building. In addition to the course lectures, there is a programme of seminars by outside speakers, which we also encourage you to attend although many are aimed at researchers. These are generally held in the Gabor Seminar Room (Level 6 EEE Building). These talks are announced using the EEE e.e.talks service via email.

**Important notes on the modules**

It would be wise to sample the first few lectures for each module at the start of each term in order to help you choose which subjects you will take for examination purposes. Of course, you need to do the coursework (if applicable) if you wish to be examined on a module. You may attend the lectures for any module without choosing to be examined on it.

**Coursework**

The lecturer sets a date by which time the coursework has to be submitted. Normally at least five weeks is allowed for the completion of each piece of coursework except when coursework consists of several relatively small parts that are issued separately. We aim to have coursework marked within 2 weeks of the deadline. Students are not allowed to keep their marked coursework since we need to keep it for the External
Examiner to inspect during one of their visits to the Department. You can find the coursework percentage for each course on the relevant module page online and in the table below.

15. Plagiarism

Please take plagiarism very seriously when preparing your coursework and Project Report.

As it is a valuable part of the educational process, you are free to discuss the coursework with other students. However, unless it is specified to be group work, your submission for marking must be entirely your own work. You must not copy any part of another person’s work (i.e. you must not copy any part, or all, of the text, equations, programs, figures, graphs, etc.). You must not copy material from any publication without making it clear what you have copied (usually by enclosing the copied material in ‘ ’ and following it by a reference such as [Page 32, 5].) There will be serious consequences for you if we detect any copying from another student or any unacknowledged copying from the web or any publication.

All Master’s students are required to complete a Plagiarism Awareness online course and test for Masters students. The full course details can be found here.

An Avoiding Plagiarism Session has been arranged for all Master’s students on Monday 17th October 2018, 2.00 – 3.00 pm, Room 408, Electrical and Electronic Engineering. Attending this session will help you understand the topic and what to expect in the online course and test.

All MSc students must complete the compulsory course by the deadline of 31st October 2018. More information about the course and how students can enrol is available here.

16. Assessment Criteria and Degree Classification

At the end of your degree your degree classification (Fail, Pass, Merit or Distinction) will be based on three marks (examination, laboratory and individual research project marks). For more details about the criteria for each degree classification please see the MSc Communications and Signal Processing Programme Specification.

1. Examination Mark
This is the average mark for the 8 individual modules that are counted. Each of the 8
examination results is equally-weighted.

2. Laboratory Mark
The assessed laboratory work involves experimental work and associated theory, provided by Dr Cong Ling. The overall mark for this component of assessment is a weighted sum of the marks for the various items of laboratory work that you have completed. The amount of work involved will be approximately the equivalent of two examinable courses (i.e. two modules).

Dr Cong Ling’s Advanced Communications and Signal Processing laboratory work will be carried out in the MSc Laboratory (Room 303). Details and the time it starts will be emailed to you in due course and your work on it will be marked as part of your assessment. You can find more information on the ACSP lab’s webpage - http://www.ee.ic.ac.uk/msc_csp/ACSPLab.html.

3. Individual Research Project Mark
The Project will be assessed based on your performance on the Project, the Project Report and Poster Presentation in mid-September. Your Project mark is a weighted sum of these (85% Project Report and 15% Poster Presentation).

A list of projects proposed by staff will be published in mid-December. You will be required to submit your Project preferences 1-2 weeks after this. In addition, students may propose a Project themselves or carry out a Project as an intern with a company or at other universities provided the MSc Course Director agrees that the Project is suitable.

17. Notification of Results
You will be given a provisional indication of your performance in the exams (subject to confirmation by the Board of Examiners) in July 2019. Your final results will not be available until after an Examiners’ Meeting in late October 2019. All grades and marks are provisional until confirmed by the Board of Examiners. Before then, provisional indications of your exam results can be included in confidential references for potential employers or other Universities.

Your final MSc degree classification (Fail, Pass, Merit or Distinction) and your transcript will be made available to you from the Registry website soon after the Board of Examiners Meeting (usually by early-November). Registry will email you instructions to allow you to view your transcript once it is ready.
18. Interpretation of Grades and Marks

The table below is designed to give a helpful interpretation of the grades for coursework, Project and examination marks. Please note that these interpretations apply to individual items of coursework and exam questions (for which the pass mark is 50%).
<table>
<thead>
<tr>
<th>Grade on coursework</th>
<th>Mark (%) (on transcript)</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A+</strong></td>
<td>100</td>
<td><strong>Distinction Quality</strong> - an exceptionally well presented exposition of the subject, showing: (i) command of the relevant concepts and facts, (ii) a high critical or analytical ability, (iii) originality, and (iv) evidence of substantial outside reading (where applicable). Distinction standard - excellent answer - a very well presented exposition of the subject, showing many of the above features, but falling short in one or two of them.</td>
</tr>
<tr>
<td><strong>A</strong></td>
<td>70</td>
<td><strong>Merit Quality</strong> - Good to very good answer which (i) shows a clear grasp of the relevant concepts and facts, (ii) gives an accurate account of the relevant taught material (as exemplified in the model answer), and (iii) shows evidence of some outside reading or of critical or analytical ability.</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>60</td>
<td><strong>Pass Quality</strong> - adequate to quite good answer which (i) shows a grasp of the basic concepts and facts, (ii) gives a mainly accurate account of at least half of the relevant taught material (as exemplified in the model outline answer), and (iii) does not go beyond that, or goes beyond that but is marred by significant errors.</td>
</tr>
<tr>
<td><strong>C</strong></td>
<td>50</td>
<td><strong>Fail Quality</strong> - Unsatisfactory answer: shows only a weak grasp of the basic concepts and facts, and is marred by major errors or brevity; presents only about one third to one half of the relevant taught material. Shows a confused understanding of the topic; presents less than a third of the relevant taught material. Answer is too inaccurate, too irrelevant, or too brief to indicate more than a vague understanding of the topic, less than a quarter of the relevant taught material. Presents only one, two or three sentences or facts that are correct and relevant to the topic. Contains nothing correct that is relevant to the topic.</td>
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<td><strong>D</strong></td>
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<td><strong>E</strong></td>
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