



CURRICULUM VITAE



I. PERSONAL PARTICULARS

| | |
|--------------------------------------------------|---------------------------------------------------------------------------|
| Name | HOO YANN SEONG |
| Current Position Faculty / Department | Senior Lecturer Mathematics Department, Pusat Asasi Pertahanan |

II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS

| Year | Degree | Discipline | University |
|-------------|---------------------------------|---------------------|---------------------|
| 1997 | Bachelor of Science (Hons.) | Mathematics | Uni. Sains Malaysia |
| 2003 | Master of Science (Mathematics) | Mathematics | Uni. Sains Malaysia |
| 2016 | Doctor of Philosophy | Applied Mathematics | Uni. Putra Malaysia |

III. TITLES OF POSTGRADUATE THESES WRITTEN (At MSc/PhD Level)

| No. | TITLES OF POSTGRADUATE THESES |
|------------|--------------------------------------------------------------------------------------------------------|
| 1 | Penyelesaian berangka masalah peralihan fasa pertama bagi filem nipis dalam bahan ferroelektrik (MSc.) |
| 2 | Multistep block methods for solving higher order delay differential equations (PhD) |

IV. WORK EXPERIENCE (Please list your relevant experience in chronological order)

| Year | Position | Organisation | Start and End Date |
|-----------|-----------------|-----------------------------------------|--------------------|
| 2000-2002 | Lecturer | College Legenda Langkawi | Jul 2000- Jun 2002 |
| 2003-2008 | Lecturer | College Legenda Mantin | May 2003- Jun 2008 |
| 2008-2017 | Lecturer | Universiti Pertahanan Nasional Malaysia | Jul 2008-Oct 2017 |
| 2017-Now | Senior Lecturer | Universiti Pertahanan Nasional Malaysia | |

1.0 TEACHING AND SUPERVISION**1.1 Postgraduate Courses**

| No. | Course Title | Semester | Year |
|-----|-----------------|----------|-----------|
| 1 | Research Method | 1 | 2020,2021 |

1.2 First Degree Courses

| No. | Course Title | Semester | Year |
|-----|-------------------------|----------|-------------|
| 1 | Numerical Methods | 2 | 2015/2016 |
| 2 | Complex Variables | 1 | 2015/2016 |
| 3 | Numerical Methods | 2 | 2008/2009 |
| 4 | Complex Variables | 1 | 2008/2009 |
| 5 | Engineering Mathematics | 2 | 2008 |
| 6 | Statistics | 2 | 2003 - 2007 |

1.3 Pre-Degree Courses

(Please list in chronological order and state: course title, semester and year)

| No. | Course Title | Semester | Year |
|-----|-------------------|----------|-----------|
| 1 | Basic Mathematics | 1 | 2021,2022 |
| 2 | Mathematics III | 2 | 2020,2021 |
| 3 | Mathematics II | 2 | 2019 |
| 4 | Mathematics I | 1 | 2020 |

1.4 PhD Supervision

| No. | Name of Student | Project Title | Date of Registration | Role (Main / Co-Supervision) | Status • Completed • Submitted • In Progress | University |
|-----|-----------------|-----------------|----------------------|------------------------------|-------------------------------------------------------|------------|
| 1 | Danial Kafi | Mobile Learning | 4 September 2018 | Co-Supervision | In progress | UPNM |

1.5 PhD External/Internal Examination

(Please list in chronological order)

| No. | Name of Student | Project Title | External / Internal | Date of Viva | University |
|-----|-------------------|---------------------------------------------------------------------------------------------|---------------------|--------------|------------|
| 1 | Nooraida Samsudin | Penambahbaikan Skema Euler menggunakan konsep pengujian ke atas litar perintang aruhan (RL) | Internal | 15 Mei 2020 | UPNM |

1.6 MSc (by Research)

(Please list in chronological order)

| No. | Name of Student | Project Title | Date of Registration | Role (Main / Co-Supervision) | Status • Completed • Submitted • In Progress | University |
|-----|--------------------------------|---------------|----------------------|------------------------------|-------------------------------------------------------|------------|
| 1 | Nurul Asyiqin Binti Mohd Fauzi | | | Co-Supervision | In progress | UPNM |
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1.7 MSc External/Internal Examination

(Please list in chronological order)

| No. | Name of Student | Project Title | External / Internal | Date of Viva | University |
|-----|-----------------|---------------|---------------------|--------------|------------|
|-----|-----------------|---------------|---------------------|--------------|------------|

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1.8 Supervision (Postgraduate Research Project or Final Year Research Project)

(Please list in chronological order)

| No. | Name of Student | Project Title | Date of Registration | Role (Main/Co-Supervision) | Status • Completed • Submitted • In Progress |
|-----|----------------------------------------|------------------------------------------------------|----------------------|----------------------------|-------------------------------------------------------|
| 1 | Ahmad Nadri bin Aznan Sham | Sistem pemantauan kehadiran kelas menggunakan kod QR | 2017 | Co- Supervision | Completed |
| 2 | Lokman Hakim bin Ahmad Demanhuri | Sistem e-pos | 2018 | Co- Supervision | Completed |
| 3 | Muhammad Adib bin Abdul Hamid | System permarkahan Latihan Industri | 2019 | Co- Supervision | Completed |
| 4 | Muhamad Arif Aizad bin Mior Mohd Nizar | Smart dustbin | 2020 | Co- Supervision | Completed |
| 5 | Nurislam Izzati bt. Ibrahim | Mini First Responder Drone | 2021 | Co- Supervision | Completed |

2.0 RESEARCH, PUBLICATION AND PRESENTATION

2.1 Research Projects

(Please list in chronological order and state: title, list of researchers, grant/year, source/amount and status)

| No. | Title | List of Researchers • Principal • Members | Grant Year | Source Amount | Status • Completed • In Progress |
|-----|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------|---------------|----------------------------------------|
| 1 | Optimal values of local adaptive regularisation parameter for non-parametric image registration models | Hoo Yann Seong, (Principle) Mazlinda Ibrahim, Suzaimah Ramli | 2016 | RM20,000 | Completed |
| 2 | Fusion of the visible and thermal images for military operation | Mazlinda Ibrahim (Principle) Hoo | 2016 | RM 35,000 | Completed |

| No. | Title | List of Researchers • Principal • Members | Grant Year | Source Amount | Status • Completed • In Progress |
|-----|-------|----------------------------------------------------------------------------------------------------------|------------|---------------|----------------------------------------|
| | | Yann Seong, Siti Zulaikha Ngah Demon, Suzaimah Ramli, Syed Nasir Alsagoff Syed Zakaria | | | |

2.2 Publications

2.2.1 Academic Journal

| No. | Authors, year, title, publisher/journal, volume and number of pages (Please bold your name) | Type of Journal • ISI • SCOPUS • Peer-Reviewed |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1 | Hoo Yann Seong , Zanariah Abdul Majid and Fudziah Ismail, 2013, Solving Second-Order Delay Differential Equations by Direct Adams-Moulton Method, Mathematical Problems in Engineering 01/2013; 2013. DOI:10.1155/2013/261240 | ISI |
| 2 | Hoo Yann Seong and Zanariah Abdul Majid, 2015, Solving second order delay differential equations using direct two-point block method, Ain Shams Engineering Journal, DOI:10.1016/j.asej.2015.07.014 | SCOPUS |

2.2.2 Proceeding Articles :

| No. | Authors, year, title, publisher/conference, volume and number of pages (Please bold your name) | Level • International • National • University |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1 | Hoo Yann Seong & Zanariah Abdul Majidm Kaedah Langsung bagi menyelesaikan persamaan pembezaan lengah peringkat kedua, symposium kebangsaan ke 20, 2012 | National |
| 2 | Hoo Yann Seong , Zanariah Abdul Majid, Mohamed Suleiman, Fudziah Islamil dan Khairil Iskandar Othman, Solving second order retarded delay differential equations using block method, Fundamental Science Congress 2013 | National |
| 3 | Hoo Yann Seong & Zanariah Abdul Majid, Fifth order predictor-corrector methods for solving third order delay differential equations, international conference on quantitative sciences and its applications 2014 | International |
| 4 | Hoo Yann Seong & Zanariah Abdul Majid, Solving delay differential equations of pantograph type using predictor-corrector method, | International |

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| | international Conference on Mathematics, Engineering & Industrial Applications 2014 | |
| 5 | Hoo Yann Seong & Zanariah Abdul Majid, Solving neutral delay differential equations of pantograph type by using multistep block method, ICREM7 2015 | International |

2.3 Presentation:

(Please list in chronological order)

| No. | Event | Title of Paper Presented | Role (Keynote Speaker / Invited Speaker / Presenter) | Date | Organizer |
|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------|------|-----------|
| 1 | symposium kebangsaan ke 20 | Kaedah Langsung bagi menyelesaikan persamaan pembezaan lengah peringkat kedua | Presenter | 2012 | UPM |
| 2 | Fundamental Science Congress 2013 | Solving second order retarded delay differential equations using block method | Presenter | 2013 | UPM |
| 3 | international conference on quantitative sciences and its applications 2014 | Fifth order predictor-corrector methods for solving third order delay differential equations | Presenter | 2014 | UUM |
| 4 | international Conference on Mathematics, Engineering & Industrial Applications 2014 | Solving delay differential equations of pantograph type using predictor-corrector method | Presenter | 2014 | UniMap |
| 5 | ICREM7 | Solving neutral delay differential equations of pantograph type by using multistep block method | Presenter | 2015 | UPM |

3.0 ACADEMIC RECOGNITION AND LEADERSHIP, CONSULTANCY, SERVICE TO THE UNIVERSITY AND SERVICE TO THE COMMUNITY

3.1 Service to the University

Service to the university such as Vice Chancellor/Deputy Vice Chancellor/Dean/Director, Deputy Dean/Deputy Director/Unit Coordinator/Hostel Warden, Programme Chairperson/ Assistant Warden/Fellow. Representing University in Sports and Other Non-Academic Activities. Professional/Academic Association (Committee Member).

(Please list in chronological order and state: position/membership and duration)

| No. | Position/Membership | Duration |
|-----|--------------------------------------------------------------------|-----------|
| 1. | Penasihat Akademik | 2008/2009 |
| 2. | Penilai kertas peperiksaan | 2010-2016 |
| 3. | Penyelaras Subjek | 2010-2016 |
| 4. | AJK Program Ijazah Sarjana Muda (sains Forensik) | 2015/2016 |
| 5. | AJK Kluster Sains Tulin | 2016/2017 |
| 5. | AJK pelaksana bagi pertandingan olimpiad matematik university awam | 2016 |

3.2 Service to the community

(Please list in chronological order)

| No. | Organization | Role | Start Date | End Date | Level |
|-----|-------------------------------|-----------------|------------|----------|------------------|
| 1 | Juara Suria Aptment | Tenaga Pengajar | 2016 | 2016 | Sekolah menengah |
| 2 | Sekolah Kebangsaan Desa Putra | Tenaga Pengajar | 2019 | 2019 | Sekolah rendah |