

Serdos: Video Pembelajaran

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Departemen Teknik Mekanika dan Energi

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Anhar's Lecturer Website



<https://anhar.lecturer.pens.ac.id/>



My Profile



List of Publications



List of Projects



List of Final Projects under my supervision



Mata Kuliah Workshop Programming 1

E-Learning

The screenshot displays the E-learning Politeknik Elektronika Negeri Surabaya (PENS) dashboard. The browser's address bar shows the URL `elearning.pens.ac.id/course/view.php?id=1294`. The dashboard header includes the PENS logo, social media links, and a user profile for Anhar Risnumawan. The main content area is divided into a left sidebar with navigation links (Home, My courses, Departemen Teknik Mekatronika dan Energi) and a central course view for 'Departemen Teknik Mekatronika dan Energi'. The course view shows a timeline of activities: '14 February - 20 February', '21 February - 27 February' (with 'slide - Arrays' and 'Tugas Arrays 1'), '28 February - 6 March' (with 'Tugas Arrays and Sorting'), '7 March - 13 March' (with 'Pointer 1', 'Tugas Sorting & Execution Time', 'File tugas pointer 1', and 'Tugas Pointer 1'), and '14 March - 20 March'. The right sidebar contains sections for 'NAVIGATION', 'ADMINISTRATION' (with links like Course administration, Turn editing on, Edit settings, Users, Filters, Reports, Grades, Badges, Backup, Restore, Import, Reset, Question bank, Switch role to..., and My profile settings), 'SEARCH FORUMS', 'LATEST NEWS', 'UPCOMING EVENTS', and 'RECENT ACTIVITY'. The bottom status bar shows the system clock as 11:56 on 23/08/2022, with a temperature of 31°C and a clear sky.

PENS Mail Server: Int... x (47) WhatsApp x serdos pembelajaran x PDD-UKTPT Video Pe... x CARA MEMBUAT PDD... x Classwork for Worksh... x Course: Pemrograman... x Stats | Anhar Risnumawan x pens surabaya - Penel... x

elearning.pens.ac.id/course/view.php?id=1294

Bookmarks My Bookmarks

Elearning Politeknik Elektronika Negeri Surabaya (PENS) My dashboard My courses You are logged in as Anhar Risnumawan (Log out)

pens Social networks Anhar

Home My courses Departemen Teknik Mekatronika dan Energi

News forum

14 February - 20 February

21 February - 27 February

slide - Arrays

Tugas Arrays 1

28 February - 6 March

Tugas Arrays and Sorting

7 March - 13 March

Pointer 1

Tugas Sorting & Execution Time

File tugas pointer 1

Tugas Pointer 1

14 March - 20 March

NAVIGATION

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Badges
 - Backup
 - Restore
 - Import
 - Reset
 - Question bank
- Switch role to...
- My profile settings

SEARCH FORUMS

Go

Advanced search ?

LATEST NEWS

Add a new topic...

(No news has been posted yet)

UPCOMING EVENTS

There are no upcoming events

Go to calendar...

New event...

RECENT ACTIVITY

Activity since Sunday, 21 August 2022, 11:26 AM

Full report of recent activity...

Nothing new since your last login

31°C Cerah

11:56 23/08/2022

Google Classroom

- Assignments upload
- Videos
- Media bertanya permasalahan antara mahasiswa dengan dosen

The screenshot shows a Google Classroom interface. At the top, there are browser tabs for 'PDD-UKTPT Video Per...', 'CARA MEMBUAT PDD...', 'Workshop Pemrograman...', 'Course: Pemrograman...', and 'Stats | Anhar Risnuma...'. The Classroom header includes tabs for 'Stream', 'Classwork', 'People', and 'Grades'. The main banner for 'Workshop Pemrograman 1 MEKA 2020' features a blue background with a yellow book and headphones, and a 'Customize' button. On the left sidebar, there is a 'Meet' section with an 'Outdated link' and a 'Join' button, and a 'Class code' section showing 'yre45s3'. The 'Upcoming' section indicates 'No work due soon'. The main 'Stream' area contains a list of assignments posted by 'Anhar Risnumawan', including 'Praktikum 12', 'Project', 'Praktikum 11', 'Praktikum 10', and 'Praktikum 9'.

Stream Classwork People Grades

Workshop Pemrograman 1
MEKA 2020

Customize

Meet
Outdated link ?
Join
Visible to students

Class code
yre45s3

Upcoming
No work due soon
View all

Announce something to your class

Anhar Risnumawan posted a new assignment: [Assignment] Praktikum 12
Dec 30, 2020

Anhar Risnumawan posted a new assignment: [Assignment] Project
Dec 30, 2020 (Edited Jan 12, 2021)

Anhar Risnumawan posted a new assignment: [Assignment] Praktikum 11
Dec 21, 2020

Anhar Risnumawan posted a new assignment: [Assignment] Praktikum 10
Nov 25, 2020

Anhar Risnumawan posted a new assignment: [Assignment] Praktikum 9
Nov 18, 2020 (Edited Nov 20, 2020)

CPL Prodi : Workshop Programming 1

- Mastering the principles of designing algorithms and programming languages supported by structured algorithms and logic based on applicable standards and their application to the latest computer-based technology media, mobile and network devices, and embedded systems
- Able to design programming algorithms and apply them in the form of code/programming language into technology equipment based on microcontrollers, computers, embedded systems and programmable logic controllers (PLC) as part of electronic control to build mechatronics, robotics, and industrial automation systems
- Able to design, develop and implement software frameworks that are made by considering sustainable and accountable maintenance and development in accordance with applicable technical standards
- Demonstrate a responsible attitude towards work in their field of expertise independently and in a team
- Able to apply logical, critical, innovative, quality, and measurable thinking in carrying out specific work in their field of expertise and in accordance with work competency standards in the relevant field

Learning Outcome (CPMK): Workshop Programming 1



Students learn the fundamental of programming including the required background knowledge




Students demonstrate able to analyze, be innovative, and solving problems in a programming language, both individual and in a team

Sub-CPMK: Workshop Programming 1

1. Student can describe the overview and historical C programming, Input and output, development environment (writing, compiling, and debugging C programs)
2. Student can apply variables and datatypes, operators
3. Student can apply blocks and compound statement, control flow, functions and modular programming, variable scope
4. Student can understand and apply pointers and memory addressing. arrays and pointer arithmetic, strings
5. Student can understand and apply void and function pointers. Hash tables
6. Student can understand and apply C standard library: `stdio.h`, `ctype.h`, `stdlib.h`, `assert.h`, `stdarg.h`, `time.h`
7. Student can solve problems with C programming, programming tips, and tricks

Grup Diskusi

- Bekerja dan diskusi dari topik yang diberikan dalam sebuah tim
 - Satu presentasi (satu tim) tiap kali mulai pertemuan
 - Penilaian mengikuti rubrik
 - Masing-masing anggota wajib mengajarkan pada anggota dalam satu tim jika anggota tersebut terdapat kekurangan dalam topik tersebut, untuk mendapatkan nilai yang baik
 - Melatih inovasi, critical thinking, teknologi-teknologi terkini
- 
- A large yellow triangle is positioned in the bottom right corner of the slide, pointing towards the top right.

Module Praktikum

- Setiap percobaan terdapat problem yang harus diselesaikan dalam pemrograman

D. PERCOBAAN

1. Buatlah program untuk menghitung diskriminan dan mencari akar-akar dari persamaan kuadrat :
 $ax^2 + bx + c = 0$, dengan ketentuan sbb :
 $D = b^2 - 4ac$
 - Jika $D = 0$, maka terdapat 2 akar real yang kembar, yaitu : $x_1 = x_2 = -b / 2a$
 - Jika $D > 0$, maka terdapat 2 akar real yang berlainan, yaitu :
 $x_1 = (-b + \sqrt{D}) / 2a$
 $x_2 = (-b - \sqrt{D}) / 2a$

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- Jika $D < 0$, maka terdapat 2 akar imaginair yang berlainan, yaitu :
 $x_1 = -b / 2a + (\sqrt{-D} / 2a) i$
 $x_2 = -b / 2a - (\sqrt{-D} / 2a) i$

Input : a, b, c (float)

Output : Nilai Diskriminan serta nilai akar-akar persamaan tsb (x_1 & x_2).

Petunjuk :

- untuk mencari akar dari x, gunakan : \sqrt{x} yang didefinisikan pada `<math.h>`.
- gunakan else if

2. Dengan menggunakan pernyataan else..if , buatlah program kalkulator sederhana,

Praktikum 6 (2/3)

PENGAMBILAN KEPUTUSAN

A. TUJUAN

1. Menjelaskan penggunaan pernyataan if dalam if
2. Menjelaskan penggunaan pernyataan else-if

B. DASAR TEORI

Pernyataan if di dalam if

Di dalam suatu pernyataan *if* (atau *if-else*) bisa saja terdapat pernyataan *if* (atau *if-else*) yang lain. Bentuk seperti ini dinamakan sebagai *nested if*. Secara umum, bentuk dari pernyataan ini adalah sebagai berikut :

```
if (kondisi-1)
if (kondisi-2)
.
.
.
    if(kondisi-n)
        pernyataan;
    else
        pernyataan;
.
.
else
    pernyataan;
else
    pernyataan;
```

- Kondisi yang akan diseleksi pertama kali adalah kondisi yang terluar (**kondisi-1**). Jika **kondisi-1** bernilai salah, maka statemen *else* yang terluar (pasangan *if* yang bersangkutan) yang akan diproses. Jika *else* (pasangannya tsb) tidak ditulis, maka penyeleksian kondisi akan dihentikan.

No Plagiarism

- DYS mengembangkan cara (sebuah program) yang dapat memberi score plagiarism pada seluruh file-file tugas yang diupload
- Sehingga tidak ada mahasiswa yang plagiat pekerjaan teman lainnya

Perfect Match	Overall Match	View Both Files	File L	File R
217 (67% L, 42% R)	217 (67%) L; 217 (42%) R	Side-by-Side	IMA_17_Mohammad Yusuf F - UAS.docx	IMA_11_Riswanda Nuruddin Farij - UAS.docx
391 (82% L, 77% R)	391 (82%) L; 391 (77%) R	Side-by-Side	IMA_25_Diyon Aziz Saifulloh - UAS.docx	IMA_11_Riswanda Nuruddin Farij - UAS.docx
282 (59% L, 87% R)	282 (59%) L; 282 (87%) R	Side-by-Side	IMA_25_Diyon Aziz Saifulloh - UAS.docx	IMA_17_Mohammad Yusuf F - UAS.docx
109 (36% L, 22% R)	109 (36%) L; 109 (22%) R	Side-by-Side	IMB_33_Yogi Dwi Prasetyo - UAS.docx	IMA_25_Diyon Aziz Saifulloh - UAS.docx
133 (55% L, 58% R)	133 (55%) L; 133 (58%) R	Side-by-Side	IMB_36_M_Naufal Raihan R_UAS.docx	IMB_32_Mulloh Muhammad - UAS.docx
299 (70% L, 58% R)	299 (70%) L; 299 (58%) R	Side-by-Side	IMB_37_REGA TOWINANGUN - UAS.docx	IMA_11_Riswanda Nuruddin Farij - UAS.docx
304 (71% L, 94% R)	304 (71%) L; 304 (94%) R	Side-by-Side	IMB_37_REGA TOWINANGUN - UAS.docx	IMA_17_Mohammad Yusuf F - UAS.docx
354 (83% L, 74% R)	354 (83%) L; 354 (74%) R	Side-by-Side	IMB_37_REGA TOWINANGUN - UAS.docx	IMA_25_Diyon Aziz Saifulloh - UAS.docx
213 (52% L, 42% R)	213 (52%) L; 213 (42%) R	Side-by-Side	IMB_39_Marjoko Panji Santoso - UAS.docx	IMA_11_Riswanda Nuruddin Farij - UAS.docx
261 (64% L, 81% R)	261 (64%) L; 261 (81%) R	Side-by-Side	IMB_39_Marjoko Panji Santoso - UAS.docx	IMA_17_Mohammad Yusuf F - UAS.docx
291 (72% L, 61% R)	291 (72%) L; 291 (61%) R	Side-by-Side	IMB_39_Marjoko Panji Santoso - UAS.docx	IMA_25_Diyon Aziz Saifulloh - UAS.docx
261 (64% L, 61% R)	261 (64%) L; 261 (61%) R	Side-by-Side	IMB_39_Marjoko Panji Santoso - UAS.docx	IMB_37_REGA TOWINANGUN - UAS.docx
245 (58% L, 48% R)	245 (58%) L; 245 (48%) R	Side-by-Side	IMB_41_Akmal Nurhidayat - UAS.docx	IMA_11_Riswanda Nuruddin Farij - UAS.docx
212 (50% L, 66% R)	212 (50%) L; 212 (66%) R	Side-by-Side	IMB_41_Akmal Nurhidayat - UAS.docx	IMA_17_Mohammad Yusuf F - UAS.docx
260 (61% L, 54% R)	260 (61%) L; 260 (54%) R	Side-by-Side	IMB_41_Akmal Nurhidayat - UAS.docx	IMA_25_Diyon Aziz Saifulloh - UAS.docx
255 (60% L, 60% R)	255 (60%) L; 255 (60%) R	Side-by-Side	IMB_41_Akmal Nurhidayat - UAS.docx	IMB_37_REGA TOWINANGUN - UAS.docx
178 (42% L, 44% R)	178 (42%) L; 178 (44%) R	Side-by-Side	IMB_41_Akmal Nurhidayat - UAS.docx	IMB_39_Marjoko Panji Santoso - UAS.docx
139 (61% L, 60% R)	139 (61%) L; 139 (60%) R	Side-by-Side	IMB_44_M_Irfan Afandi - UAS.docx	IMB_32_Mulloh Muhammad - UAS.docx
173 (76% L, 72% R)	173 (76%) L; 173 (72%) R	Side-by-Side	IMB_44_M_Irfan Afandi - UAS.docx	IMB_36_M_Naufal Raihan R_UAS.docx
134 (19% L, 26% R)	134 (19%) L; 134 (26%) R	Side-by-Side	IMB_45_Muh_Irfan Habib - UAS(1).docx	IMA_11_Riswanda Nuruddin Farij - UAS.docx
123 (18% L, 25% R)	123 (18%) L; 123 (25%) R	Side-by-Side	IMB_45_Muh_Irfan Habib - UAS(1).docx	IMA_25_Diyon Aziz Saifulloh - UAS.docx
128 (18% L, 30% R)	128 (18%) L; 128 (30%) R	Side-by-Side	IMB_45_Muh_Irfan Habib - UAS(1).docx	IMB_37_REGA TOWINANGUN - UAS.docx
134 (21% L, 26% R)	134 (21%) L; 134 (26%) R	Side-by-Side	IMB_45_Muh_Irfan Habib - UAS.docx	IMA_11_Riswanda Nuruddin Farij - UAS.docx
123 (19% L, 25% R)	123 (19%) L; 123 (25%) R	Side-by-Side	IMB_45_Muh_Irfan Habib - UAS.docx	IMA_25_Diyon Aziz Saifulloh - UAS.docx
132 (20% L, 31% R)	132 (20%) L; 132 (31%) R	Side-by-Side	IMB_45_Muh_Irfan Habib - UAS.docx	IMB_37_REGA TOWINANGUN - UAS.docx
583 (92% L, 85% R)	583 (92%) L; 583 (85%) R	Side-by-Side	IMB_45_Muh_Irfan Habib - UAS.docx	IMB_45_Muh_Irfan Habib - UAS(1).docx
159 (57% L, 31% R)	159 (57%) L; 159 (31%) R	Side-by-Side	IMB_46_Junio Hangga - UAS.docx	IMA_11_Riswanda Nuruddin Farij - UAS.docx
170 (61% L, 52% R)	170 (61%) L; 170 (52%) R	Side-by-Side	IMB_46_Junio Hangga - UAS.docx	IMA_17_Mohammad Yusuf F - UAS.docx

Terlihat masih ada mahasiswa yang melakukan plagiat pekerjaan teman,
Dengan overall score plagiat > 50%