

DAFTAR PUSTAKA

- ABS Technical Papers. *Human Factors and Ergonomics in Safe Shipping : the ABS Approach*. London, 2002.
- Albatrosa, Guson. (2010). Analisa Perancangan Penempatan Peralatan pada Engine Room di Kapal Berbasis Aturan Ergonomi untuk Aplikasi Marine. Surabaya
- Allam, Mohammad Vath. (2014) 'Analisis Human Error Terhadap Peralatan Komunikasi Dan Navigasi Pada Kapal', Skripsi, Institut Teknologi Sepuluh November, (96), 9-104
- American Bureau of Shipping. Bridge Desain and Navigational equipment/system. Januari, 2010
- American Bureau of Shipping. Ergonomic Desain of Navigation Bridges. 2003
- American Bureau of Shipping. (2000). Guide for Bridge Design and Navigational Equipment/System. Houston, TX: Author
- American Bureau of Shipping. (2003). Guidance Notes on the Application of Ergonomics to Marine System. Houston, TX: Author
- Aprilia, Venta Kevara. (2012) 'Perancangan Tata Letak Bridge Deck Berbasis Ergonomi Menuju One Man Operated Bridge, Jurnal Sains dan Seni Pomits Vol. 1, No.1, 1-7
- Aprilia, Venta Kevara. (2012) 'Perancangan Tata Letak One Man Controlled Bridge Berdasarkan Aplikasi Maritime Ergonomics, Jurnal Sains dan Seni Pomits Vol. 1, No.1, 1-6
- Basuki, A. (2006). Algoritma Pemrograman 2. Surabaya: Politeknik Elektronika Negeri Surabaya Institut Teknologi Sepuluh Nopember Surabaya
- Dzaky, Raihan. (2018) 'Design Of Bridge Control Console For Landing Ship Tank (Lst)', Skripsi, Institut Teknologi Sepuluh November, (146)
- Febria, Reysha Rizky, Sadika, Fajar, Herlambang, Yanuar. (2019) ' Perancangan Ulang Layout Kapal RIB "Rigid Inflatable Boat" Berdasarkan Aspek Ergonomi, e-Proceeding of Art & Design : Vol.6, 612-624
- Grandjean, E. Fitting the Task to the Man: an Ergonomic. 1982
- Handayani, Muhammad Khoirul, (2011) "Analisa Perancangan Kamar Mesin Berbasis Aturan Ergonomic Untuk Aplikasi Maritime, Institut Teknologi Sepuluh November



- International Maritime Organization. (2000). GuideLines on Ergonomic Criteria for Bridge Equipment and Layout.
- Kurniasari, Astiti. 2017. Analisis Ergonomi Pada Kapal Selam Mini Institut Teknologi Sepuluh Nopember
- Manuaba A. Peranan Ergonomi dalam Perencanaan Pembangunan di Indonesia, 1981
- Muhammad Shubhi Noor, Analisa perancangan kamar mesin berbasis pada aturan ergonomic dan hubungan spasial untuk aplikasi marine
- Napitupulu, Andrea Clarissa, Sadika, Fajar, Yunidar, Dandi. (2018) 'Perancangan Ulang Ruang Kemudi Kapal Penyelamat BASARNAS (Dengan Pendekatan Antropometri dan Ergonomi), e-Proceeding of Art & Design : Vol.5 , 3905-3914
- Pheasant, Stephen. 2003. Bodyspace : Anthropometry, Ergonomics and The Design of Work. USA : Taylor & Francis e-Library
- Winarno, E. (2014). Pemrograman VBA untuk Excel All Version. Jakarta: Elex Media Komputindo.



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Lampiran 1 Kode Tampilan Profil Program

```
Private Sub UserForm_Activate()
```

```
Dim I As Integer
```

```
Dim berhasil As Single
```

```
'2000 = 100% = 2000/2000 = 1(100%)
```

```
For I = 1 To 5000
```

```
    berhasil = I / 5000 'Menghitung berapa % prosesnya
```

```
    lbLoading.Width = berhasil * Frame1.Width
```

```
    lbProses.Caption = Format(berhasil, "00%") & "Completed"
```

```
    DoEvents
```

```
Next
```

```
Unload Me
```

```
FORMLOGIN.Show
```

```
End Sub
```

```
Private Sub UserForm_Initialize()
```

```
lbLoading.Width = 0
```

```
End Sub
```



Lampiran 2 Kode Tampilan Menu Login

```
Private Sub ckpassword_Click()
```

```
If ckpassword Then
```

```
    tbpassword.PasswordChar = ""
```

```
Else
```

```
    tbpassword.PasswordChar = "*"
End If
```

```
End Sub
```

```
Private Sub cmdmasuk_Click()
```

```
Dim username As String, Password As String
```

```
Dim MyUsername As String, MyPassword As String
```

```
username = tbusername.Text
```

```
Password = tbpassword.Text
```

```
MyUsername = "cindybandaso"
```

```
MyPassword = "sister2018"
```

```
If username = Empty Then
```

```
    MsgBox "Silahkan isi Username", vbInformation, "Peringatan"
```

```
    tbusername.SetFocus
```

```
ElseIf Password = Empty Then
```

```
    MsgBox "Silahkan isi Password", vbInformation, "Peringatan"
```

```
    tbpassword.SetFocus
```

```
ElseIf username = MyUsername And Password = MyPassword Then
```

```
    MsgBox "Login berhasil", vbInformation, "Login"
```

```
    Unload Me
```

```
    FormUkuranUtama.Show
```

```
Else
```

```
    MsgBox "Username atau Password salah", vbCritical, "Peringatan"
```



```
End Sub
```

```
Private Sub cmdkeluar_Click()
```

```
Dim Pesan As VbMsgBoxResult
```

```
Pesan = MsgBox("Anda Yakin akan keluar?", vbYesNo)
```

```
If Pesan = vbNo Then Exit Sub
```

```
ThisWorkbook.Close True
```

```
End Sub
```

```
Private Sub UserForm_Initialize()
```

```
tbusername.SetFocus
```

```
End Sub
```

```
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)
```

```
If CloseMode = 0 Then
```

```
    Cancel = True
```

```
    MsgBox "Silahkan Keluar melalui tombol Exit!"
```

```
End If
```

```
End Sub
```



Lampiran 3 Kode Tampilan Menu Input Data

```
Private Sub cmdhapus_Click()
```

```
BersihForm
```

```
End Sub
```

```
Private Sub cmdkeluar_Click()
```

```
Dim Pesan As VbMsgBoxResult
```

```
Pesan = MsgBox("Anda Yakin akan keluar?", vbYesNo)
```

```
If Pesan = vbNo Then Exit Sub
```

```
ThisWorkbook.Close True
```

```
End Sub
```

```
Private Sub Label15_Click()
```

```
Do While Label16.Left < 0
```

```
Label16.Left = Label16.Left + 1
```

```
DoEvents
```

```
Loop
```

```
End Sub
```

```
Private Sub Label16_Click()
```

```
Do While Label16.Left > -365
```

```
Label16.Left = Label16.Left - 0.5
```

```
DoEvents
```

```
Loop
```

```
End Sub
```

```
Private Sub TextBox3_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
```

```
AndThen Saya KeyAscii
```



```
ub UserForm_Initialize()
```

```
Me.Label16.Left = -365
```

```
End Sub
```

```
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)
```

```
If CloseMode = 0 Then
```

```
    Cancel = True
```

```
    MsgBox "Silahkan Keluar melalui tombol Exit!"
```

```
End If
```

```
End Sub
```

```
Private Sub cmdnext_Click()
```

```
    Dim Baris As Long
```

```
    Dim IsiData As Variant
```

```
    Dim Dbarea As Range, HC As Range
```

```
If TextBox1.Text = Empty Or TextBox2.Text = Empty Or TextBox3.Text =  
Empty Then
```

```
    MsgBox "Data belum lengkap!", vbInformation, "Peringatan"
```

```
    Exit Sub
```

```
ElseIf TextBox3.Text < 1427 Or TextBox3.Text > 1840 Then
```

```
    MsgBox "Data yang anda masukkan tidak sesuai dengan data antropometri  
Indonesia!", vbInformation, "Peringatan"
```

```
    Exit Sub
```

```
Else
```

```
With FormDataAntropometri
```

```
    .Label15.Caption = TextBox1.Text
```

```
    .Label16.Caption = TextBox2.Text
```

```
    .TextBox1.Text = TextBox3.Text
```

```
    .Label19.Caption = Label4.Caption
```

```
    l7.Caption = Sheet2.Range("N1") & Sheet2.Range("O2")
```

```
    heet2.Range("A" & Sheet2.Rows.Count).End(xlUp).Row
```



```

Set Dbarea = Sheet2.Range("A2:A" & Baris)
Set HC = Dbarea.Find(TextBox1.Text, , xlValues, xlWhole)
If Not HC Is Nothing Then
    Baris = HC.Row
End If
IsiData = Array(Baris - 1, TextBox1.Value, TextBox2.Value, TextBox3.Value)
Sheet2.Range("A" & Baris).Resize(1, 4).Value = IsiData
End With
End If
End Sub

```

```

Private Sub BersihForm()
    TextBox1.Text = vbNullString
    TextBox2.Text = vbNullString
    TextBox3.Text = vbNullString
End Sub

```

```

Sub BERSIH()
    TextBox1.Text = ""
    TextBox2.Text = ""
    TextBox3.Text = ""
End Sub

```

```

Sub AngkaSaja(ByVal KeyAscii As MSForms.ReturnInteger)
    If Not (KeyAscii >= Asc("0") And KeyAscii <= Asc("9")) Then KeyAscii = 0
End Sub

```



Lampiran 4 Kode Tampilan Menu Data Antropometri

```
Private Sub isiListbox()
```

```
Dim Baris As Long
```

```
Baris = GetBaris
```

```
Listbox1.RowSource = Sheet2.Range("G2:K" & Baris).Address
```

```
End Sub
```

```
Private Sub cmdkembali_Click()
```

```
BERSIH
```

```
Unload Me
```

```
End Sub
```

```
Private Sub cmdnext_Click()
```

```
If TextBox1.Text < 1600 Or TextBox1.Text > 1950 Then
```

```
MsgBox "Data tinggi tubuh tidak memenuhi syarat tinggi operator!",  
vbInformation, "Peringatan"
```

```
Else
```

```
With FORMUTAMA
```

```
.Label22.Caption = Label1.Caption & Label15.Caption
```

```
.Label23.Caption = Label2.Caption & Label16.Caption
```

```
.Label24.Caption = Label18.Caption
```

```
.Label36.Caption = Label19.Caption
```

```
.TextBox1.Value = TextBox1.Text
```

```
.Show
```

```
End With
```

```
Unload Me
```

```
End If
```

```
End Sub
```



```
ub Label14_Click()
```

End Sub

Private Sub UserForm_Initialize()

Call isiListbox

End Sub

Function GetBaris()

GetBaris = Sheet2.Range("G" & Sheet1.Rows.Count).End(xlUp).Row

End Function

Sub BERSIH()

Label15.Caption = ""

Label16.Caption = ""

Label17.Caption = ""

Label19.Caption = ""

TextBox1.Text = vbNullString

End Sub



Lampiran 5 Kode Tampilan Menu Utama

```

Private Sub cbcomponent_Change()
Dim Baris As Long
Dim Areanya As Range, cari As Range
Dim Nilai As Long
Label35.Caption = cbcomponent.Value
Set Image1.Picture = Nothing
For I = 1 To 4
    Me.Controls("Ds" & I & 6).BackColor = &H8000000F
Next

Tampil 1, False
Tampil 2, False
Tampil 3, False
Tampil 4, False

LR11.Caption = ""
LR12.Caption = ""
LR21.Caption = ""
LR22.Caption = ""
LR31.Caption = ""
LR32.Caption = ""
LR41.Caption = ""
LR42.Caption = ""

Nilai = 1
Baris = Sheet3.Range("C" & Sheet3.Rows.Count).End(xlUp).Row
Set Areanya = Sheet3.Range("C2:C" & Baris)
Set cari = Areanya.Find(cbcomponent.Value, , xlValues, xlWhole)
If cari Is Nothing Then
    cari.Address

```



```
Set cari = Areanya.FindNext(cari)
```

```
Tampil Nilai, True
```

```
Controls("Ds" & Nilai & "1").Caption = cari.Offset(0, 1).Value
```

```
Controls("Ds" & Nilai & "2").Value = ""
```

```
Controls("Ds" & Nilai & "3").Caption = cari.Offset(0, 2).Value
```

```
Controls("Ds" & Nilai & "3").Tag = cari.Offset(0, 6).Value
```

```
Controls("Ds" & Nilai & "4").Caption = cari.Offset(0, 3).Value
```

```
Controls("Ds" & Nilai & "4").Tag = cari.Offset(0, 7).Value
```

```
Controls("Ds" & Nilai & "5").Caption = cari.Offset(0, 5).Value
```

```
Controls("Ds" & Nilai & "6").Caption = ""
```

```
Controls("Ds" & Nilai & "6").Tag = cari.Offset(0, 8).Value
```

```
Nilai = Nilai + 1
```

```
Loop Until awal = cari.Address
```

```
End If
```

```
End Sub
```

```
Private Sub cbitem_Change()
```

```
Dim IsiCombo As Object
```

```
Dim Item As Range
```

```
Dim Component As String
```

```
Label15.Caption = cbitem.Value
```

```
Set Image1.Picture = Nothing
```

```
cbcomponent.Text = ""
```

```
cbcomponent.Clear
```

```
mbo = CreateObject("Scripting.Dictionary")
```

```
= Sheet3.Range("B2:B22")
```



For Each isinya In Item

 If isinya.Value = cbitem.Value Then

 Component = isinya.Offset(0, 1).Value

 imgno = isinya.Offset(0, -1).Value

 If Not IsiCombo.exists(Component) Then

 IsiCombo.Add Component, imgno

 End If

 End If

Next isinya

For Each ky In IsiCombo.keys

'cbcomponent.List = IsiCombo.keys

 cbcomponent.AddItem ky

 cbcomponent.List(cbcomponent.ListCount - 1, 1) = IsiCombo(ky)

Next

End Sub

Sub BERSIH()

Ds12.Text = ""

Ds22.Text = ""

Ds32.Text = ""

Ds42.Text = ""

Ds16.Caption = ""

Ds26.Caption = ""

Ds36.Caption = ""

Ds46.Caption = ""

Image1.Picture = Empty

End Sub



ub cmdcheck_Click()

As Double

```
Dim MinP As Double
```

```
Dim MaxP As Double
```

```
If cbitem = "" Or cbcomponent = "" Or Ds12.Value = "" Then
```

```
    MsgBox ("Data belum terisi"), vbInformation
```

```
    Exit Sub
```

```
End If
```

```
For I = 1 To 4
```

```
    If Me.Controls("Ds" & I & 2).Visible And Me.Controls("Ds" & I & 2).Value  
<> "" Then
```

```
        Inp = CDbI(Me.Controls("Ds" & I & 2).Value)
```

```
        MinP = CDbI(Me.Controls("Ds" & I & 3).Caption)
```

```
        MaxP = CDbI(Me.Controls("Ds" & I & 4).Caption)
```

```
    If Inp >= MinP And Inp <= MaxP Then
```

```
        Me.Controls("Ds" & I & 6).Caption = "Recomended"
```

```
        Me.Controls("Ds" & I & 6).BackColor = &HC000&
```

```
        hasil = Controls("DS" & I & 6).Tag
```

```
        Controls("LR" & I & 1).Caption = Controls("DS" & I & 1) & " : Sudah  
memenuhi rekomendasi Ergonomi"
```

```
        Controls("LR" & I & 2).Caption = hasil
```

```
    Else
```

```
        Me.Controls("Ds" & I & 6).Caption = "Failed"
```

```
        Me.Controls("Ds" & I & 6).BackColor = &HFF&
```

```
        ontrols("LR" & I & 1).Caption = Controls("DS" & I & 1) & " : Belum  
ii rekomendasi Ergonomi"
```

```
        Inp < MinP Then
```



```

        hasil = Controls("DS" & I & 4).Tag
    Else
        hasil = Controls("DS" & I & 3).Tag
    End If

    Controls("LR" & I & 2).Caption = hasil

End If
End If
Next

imgno = cbcomponent.List(cbcomponent.ListIndex, 1)

alamatGambar = Sheet3.Cells(imgno + 1, "L").Value
If Not alamatGambar = "" Then
    Image1.Picture = LoadPicture(alamatGambar)
End If

End Sub

Private Sub cmdexit_Click()
    Dim Pesan As VbMsgBoxResult

    Pesan = MsgBox("Anda Yakin akan keluar?", vbYesNo)
    If Pesan = vbNo Then Exit Sub
    ThisWorkbook.Close True
End Sub

Private Sub cmdpreview_Click()
    With Gambar
        Caption = Label15.Caption & " - " & Label35.Caption
        Picture = Image1.Picture
    End With

```



End With

End Sub

Private Sub CommandButton1_Click()

Ds13.Top = 36

Ds13.Left = 270

End Sub

Private Sub UserForm_Activate()

Dim IsiCombo As Object

Dim Item As Range

cbitem.SetFocus

Set IsiCombo = CreateObject("Scripting.Dictionary")

Set Item = Sheet3.Range("B2:B27")

For Each isinya In Item

 If Not IsiCombo.exists(isinya.Value) Then

 IsiCombo.Add isinya.Value, isinya.Value

 End If

Next isinya

cbitem.List = IsiCombo.keys

Tampil 1, False

Tampil 2, False

Tampil 3, False

Tampil 4, False



ub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)

```
If CloseMode = 0 Then
```

```
    Cancel = True
```

```
    MsgBox "Silahkan Keluar melalui tombol Exit!"
```

```
End If
```

```
End Sub
```

```
Private Sub Ds12_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
```

```
    Angka KeyAscii
```

```
End Sub
```

```
Private Sub Ds22_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
```

```
    Angka KeyAscii
```

```
End Sub
```

```
Private Sub Ds32_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
```

```
    Angka KeyAscii
```

```
End Sub
```

```
Private Sub Ds42_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
```

```
    Angka KeyAscii
```

```
End Sub
```

```
Function Tampil(Idx As Long, sts As Boolean)
```

```
    For I = 1 To 6
```

```
        Controls("Ds" & Idx & I).Visible = sts
```

```
    Next
```

```
End Function
```

```
Sub Angka(ByVal KeyAscii As MSForms.ReturnInteger)
```

```
    If (KeyAscii >= Asc(0) And KeyAscii <= Asc(9)) Then KeyAscii = 0
```



Lampiran 6 Data Dimensi di Bridge Deck Kapal KN SAR Kamajaya

No	Item	Component	Characteristic	Nilai	Satuan
1	Bridge Wing and Working Clearance	Across Wheelhouse	[A] Width	1300	mm
2	Bridge Wing and Working Clearance	Bridge Wing Doors	[A] Width	750	mm
3	Bridge Wing and Working Clearance	Bridge Ceiling Clearance Height	[A] Height	2000	mm
4	Bridge Wing and Working Clearance	Main Workstation	[A] Length	5	m
5	Console and Wokspace Design	Single Watchstander Console	[A] Working Height (Frontal Edge)	900	mm
6	Console and Wokspace Design	Single Watchstander Console	[B] Height	1250	mm
7	Console and Wokspace Design	Single Watchstander Console	[C] Length Upper Leg Room	280	mm
8	Console and Wokspace Design	Single Watchstander Console	[D] Length Lower Leg Room	280	mm
9	Console and Wokspace Design	Chart Tabel Dimensions	[A] Width	1650	mm
10	Console and Wokspace Design	Chart Tabel Dimensions	[B] Depth	1000	mm
11	Console and Wokspace Design	Chart Tabel Dimensions	[C] Height	1000	mm
12	External Visibility	View of Sea Surface	[A] Distance	500	m
13	External Visibility	View of Sea Surface	[B] Angle Inclination	360	derajat
	Visibility	Height of Lower Edge of Front Windows	[A] Height	1150	mm



No	Item	Component	Characteristic	Nilai	Satuan
15	Internal Visibility	Height of Upper Edge of Front Windows	[A] Height	1900	mm
16	Internal Visibility	Height of Upper Edge of Front Windows	[B] Standing Eye Heigh Position	1600	mm
17	Internal Visibility	Height of Upper Edge of Front Windows	[C] Angel Inclination Of Forward View	10	derajat
18	Internal Visibility	Height of Upper Edge of Front Windows	[D] Distance of Standing Eye Height	900	mm
19	Internal Visibility	Front Window	[A] Width Framing	100	mm
20	Internal Visibility	Front Window	[B] Depth Framing	95	mm
21	Internal Visibility	Front Window	[C] Angel of Inclination	25	derajat





KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI
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SURAT PENUGASAN

No.25822/UN4.7.1/TD.06/2022

Dari : Dekan Fakultas Teknik Universitas Hasanuddin

Kepada : 1. **Haryanti Rivai, S.T., M.T..Ph.D.**
2. **Andi Husni Sitepu, S.T., M.T.**

Pemb. I
Pemb. II

Isi : 1. Bahwa berdasarkan peraturan Rektor Universitas Hasanuddin nomor : 29/UN4.1/2023, tentang Penyelenggaraan Program Sarjana Universitas Hsanauddin, dengan ini menugaskan Saudara sebagai PEMBIMBING MAHASISWA, maka dengan untuk membimbing penulisan Skripsi/Tugas Akhir mahasiswa Teknik Sistem Perkapalan Fakultas Teknik Universitas Hasanuddin di bawah ini :

Nama :
Cindy Bandaso

No. Stambuk :
D091181310

Judul Skripsi/Tugas Akhir :

Desain Aplikasi Analisa rancangan Tata Letak Bridge Controlroom Pada Permasalahan Improper Look Out

2. Surat penugasan pembimbing ini mulai berlaku sejak tanggal ditetapkannya dan berakhir sampai selesainya penulisan Skripsi/Tugas Akhir Mahasiswa tersebut.
3. Agar surat penugasan ini dilaksanakan sebaik - baiknya dengan penuh rasa tanggung jawab.

Ditetapkan di Gowa,
Pada tanggal, 16 November 2022
a.n Dekan,
Wakil Dekan Bidang Akademik dan
Kemahasiswaan,

Dr. Amil Ahmad Ilham, S.T., M.IT.
Nip. 19731010 199802 1 001

Tembusan :

1. Dekan FT-UH.
2. Ketua Departemen Teknik Sistem Perkapalan FT-UH.
3. Mahasiswa yang bersangkutan





KEMENTERIAN PENDIDIKAN KEBUDAYAAN,
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SURAT IZIN UJIAN SKRIPSI
Nomor 09666/UN4.1.1.1/PK.03.02/2024

Berdasarkan Peraturan Rektor Universitas Hasanuddin tentang Penyelenggaraan Program Sarjana Nomor 29/UN4.1//2023 tanggal 17 Oktober 2023, dengan ini menerangkan bahwa:

Nama : CINDY BANDASO'
NIM : D091181310
Tempat/Tanggal Lahir : TANA TORAJA/18 AGUSTUS 2000
Fakultas : TEKNIK
Program Studi : TEK. SISTEM PERKAPALAN

Telah memenuhi syarat untuk Ujian Skripsi Strata I (S1). Demikian Surat Persetujuan ini dibuat untuk digunakan dalam proses pelaksanaan ujian skripsi, dengan ketentuan dapat mengikuti wisuda jika persyaratan kelulusan/wisuda telah dipenuhi. Terima Kasih.

Makassar, 6 Maret 2024
a.n. Direktur Pendidikan
Kepala Subdirektorat Administrasi
Pendidikan,



Susy Asteria Irafany, S.T., M.Si.
NIP 197403132009102001

Keterangan online wisuda:

User : D091181310
Password : 2165646
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SURAT PENUGASAN

No.10303/UN4.7.1/TD.06/2024

Dari : Dekan Fakultas Teknik Universitas Hasanuddin
Kepada : Mereka yang tercantum namanya dibawah ini.
Isi : 1. Bahwa Berdasarkan Peraturan Rektor Universitas Hasanuddin Nomor 29/UN4.1/2023 tentang Penyelenggaraan Program Sarjana Universitas Hasanuddin dengan ini menugaskan Saudara sebagai PANITIA UJIAN SARJANA Program Strata Satu (S1) Teknik Sistem Perkapalan Fakultas Teknik Universitas Hasanuddin dengan susunan sebagai berikut :

Ketua : Haryanti Rivai, S.T., M.T., Ph.D.
Sekretaris : Andi Husni Sitepu, S.T., M.T.
Anggota : 1. Prof. Ir. Andi Haris Muhammad, S.T., M.T., Ph.D.
2. Rahimuddin, S.T., M.T., Ph.D.

Untuk menguji bagi mahasiswa tersebut dibawah ini :

Nama/NIM : Cindy Bandaso / D091181310

Judul Thesis/Skripsi :

Aplikasi Rancangan Bridge Control Room Pada Permasalahan Improper Look-Out

2. Waktu ujian ditetapkan oleh Panitia Ujian Akhir Program Strata Satu (S1).
3. Agar surat penugasan ini dilaksanakan sebaik-baiknya dengan penuh rasa tanggung jawab.
4. Surat penugasan ini berlaku sejak tanggal ditetapkan sampai dengan berakhirnya Ujian Sarjana tersebut, dengan ketentuan bahwa segala sesuatunya akan ditinjau dan diperbaiki sebagaimana mestinya apabila dikemudian hari ternyata terdapat kekeliruan dalam keputusan ini.

Ditetapkan di Gowa,
Pada Tanggal 13 Mei 2024
a.n Dekan,
Wakil Dekan Bidang Akademik dan Kemahasiswaan,



Dr. Amil Ahmad Ilham, S.T., M.IT.
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Tembusan:

1. Dekan FT-UH
2. Ketua Departemen Teknik Sistem Perkapalan
3. Kasubag Umum dan Perlengkapan FT-UH



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**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
DEPARTEMEN TEKNIK SISTEM PERKAPALAN
FAKULTAS TEKNIK UNIVERSITAS HASANUDDIN**

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BERITA ACARA UJIAN SEMINAR TUTUP

Terhadap Mahasiswa

Nama : Cindy Bandaso
Stambuk : D091181310
Judul : *Aplikasi Rancangan Bridge Control Room Pada Permasalahan Improper Look-Out*
Hari/Tanggal : Kamis, 16 Mei 2024
Waktu : 14:00 - 16:30 WITA
Tempat : Ruang Sidang Teknik Sistem Perkapalan
Keputusan Sidang/ Catatan : Lulus dengan nilai 90,25 (A)
Catatan :

PANITIA UJIAN

No.	Susunan Panitia	Nama	Tanda Tangan
1.	Ketua/Anggota	Haryanti Rivai, S.T., M.T., Ph.D.	1.
1.	Sekretaris/Anggota	Andi Husni Sitepu, S.T., M.T.	2.
2.	Anggota	Prof. Ir. Andi Haris Muhammad, S.T., M.T., Ph.D.	3.
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Ketua Sidang



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